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# **Bibliometric Analysis of the Czech Republic Research Output in an International Context - Institutional Analysis, 1993-2009**

**Annex 8 to the Second Interim report**

CWTS

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OP Vzdělávání  
pro konkurenceschopnost

INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ



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# Introduction

This report provides a background document to the CWTS data deliveries. Its content briefly describes, in a non-technical fashion, the main features of the CWTS information system and methodology that was used to produce quantitative 'bibliometric' data for the Czech Republic's government on the Czech Republic's research performance at the institutional level (meso-level) during the years 1993-2009.



## 1. CWTS information system

The publication output data and citation impact data were extracted from CWTS's proprietary version of the database *Web of Science* (WoS). This source of information is specifically designed for statistical 'bibliometric' analyses of the worldwide research literature.<sup>1</sup> The WoS database contains selected bibliographic information from all research papers published in about 12,000 'sources', including the paper's title and abstract, author names<sup>2</sup>, author affiliations, full text, reference list, document type, and other bibliographic identifiers such as the journal's ISSN number. Some 11,000 of these sources are fully covered peer-reviewed international scientific and technical journals, the remainder being journals and conference proceedings that are often only partially covered.

The CWTS/WoS database is an upgraded and dedicated 'bibliometric' version of the widely available online/offline 'bibliographic' versions of the database provided by Thomson Reuters Scientific to its customers. The CWTS/WoS database covers the years 1980 up to and including the most recent publication year (currently 2009). The WoS is one of very few international multidisciplinary databases that offer a broad and high-quality coverage of the worldwide research literature, and has effectively been the common source for all large scale comparative bibliometric studies over the last two decades. The only other comparable database is *SCOPUS*, a relatively recent source produced by the science publisher *Elsevier* of thus far unknown added value compared to the WoS. Numerous other databases have a limited disciplinary scope, often focusing on specific scientific fields or research domains, such as *Inspec* (for physics and electrical engineering), *Medline* (medicine and health care), to name a few.

The CWTS bibliometric information system integrates the CWTS/WoS database and a series of software routines and research performance indicators based on publication output and citation impact statistics (section 6 provides more details about these indicators). Note that these indicator-based statistics may differ slightly from the results of similar citation analysis which are performed with other, on-line or off-line, 'bibliographic' (campus license) editions of the *Web of Science*, or CD-ROM versions of WoS predecessor databases such as the *Science Citation Index*, because of minor differences in coverage, definitions of admissible document types, time spans, or data upgrading by CWTS to improve the quality the WoS database (see section 2).

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<sup>1</sup> Thomson Reuters (Philadelphia) is the producer and publisher of the Web of Science (WoS). For the earliest years the data will be extracted from the predecessor of the Web of Science, the Citation Index, covering the Science Citation Index, the Social Science Citation Index, the Arts & Humanities Citation Index, and the 'specialty' citation indexes (CompuMath, Biochemistry and Biophysics, Biotechnology, Chemistry, Material Science, Neurosciences). CWTS owns a license agreement with the database producer, *Thomson Scientific* to supply WoS-based bibliometric information to clients worldwide on a commercial basis.

<sup>2</sup> Authors are institutional authors, i.e. a person and his or her institutional address at the time of the publication and listed in the heading or in a footnote of a research publication.

## 2. Data processing and address standardization for bibliometric analysis

CWTS invests considerable resources and efforts, on a continuous basis, to upgrade the *Thomson Reuters Scientific's* bibliographic edition of the WoS into a CWTS bibliometric version thus improving the accuracy and comprehensiveness of the data. Part of this computerized procedure includes the cleaning and standardization of the names of organizations listed in the author affiliate address information.

Another step in the data processing is the 'unification' or standardization of the research output in the WoS for address information, both on country, city, and institutional level, as well as apparent errors that need to be re-attributed before analysis. In this standardization process, addresses are aggregated under the label of major organizations within a country or region.

For the standardization of the addresses of research organizations within the Czech Republic the following criteria was adopted:

1. Publications are only assigned to the different main organizations when the information in the affiliate address enables a reliable and unambiguous identification for those organizations.
2. When in the same string of an affiliation appears more than one entity (for example, Charles University and a governmental institute), the paper is assigned to the entity that appears in the first place.
3. In the case of Hospitals combined with Universities, the paper is assigned to the hospital if there is not explicit mention to any university in the string. If in the same address string the hospital appears combined with a university, then the string is attributed to the university. Examples:

*"Univ Hosp Motol Prague, HSC Transplant Unit, Prague, Czech Republic"*

This address is attributed to the University Hospital Motol.

*"Charles Univ & Hosp Prague Motol, Fac Med 2, Dept Pathol & Mol Med, Prague 15006, Czech Republic"*

This address is attributed to the Charles University in Prague.

4. Organizations were defined at their 'main' organisational level, such as universities, higher education and research institutes, and institutes of the Academy of Sciences. This implies that production of institutes or departments within universities were not disaggregated, and the same applies to laboratories, units and departments within the different institutes of the Academy of Sciences (for example, the Biology Center of the Academy of Sciences has been considered as a whole, integrating all the production of the different institutes that constitute the Biology Center).
5. The final standardization was checked by experts in the Czech Republic, matching the current standardization with previous information provided by them. We found a high degree of agreement between both systems and also in the criteria adopted. Minor differences were corrected, and the organizations were labelled with the names and acronyms suggested by the commissioning agency (the Technology Center).

The standardization process of the data is one of the most important and crucial steps in all bibliometric studies. Therefore we present also some indicative figures on the standardization process carried out at CWTS for the analysis of the scientific production at the institutional level in the Czech Republic. These figures can

contribute to understand the completeness and accuracy in the results finally presented in the report:

- A total of 66,585 different address strings from the Czech Republic were processed.
- Address strings with at least 5 occurrences were standardized (although minor variants of major institutions were also standardized as they were detected).
- 94% (62,820) of all strings were finally properly standardized.
- The standardization of the Academy of Sciences involved also the identification of the different institutes within the Academy. 99% of the production of the Academy of Sciences was properly assigned to the different institutes.
- Bibliometric indicators were finally calculated for the 100 main institutions (by production) in the country.

### 3. Defining the fields of science

Each source journal within the CWTS/WoS database is attributed to one or more Thomson Scientific Reuters-defined *Journal Subject Categories (JSC's)*, a collection of journals covering the same, or closely related, research topics or areas. *Thomson Reuters Scientific* has assigned these journals to these categories according to the opinions of subject experts and inter-journal citation patterns (more about citations in section 6.2). Each journal category is, basically, equivalent to a subfield of science. Wide-scope journals are often assigned to more than one subfield. The prestigious general journals with broad multidisciplinary scopes, such as *Nature* and *Science*, are assigned to a journal category of their own, denoted by *Thomson Reuters Scientific* as 'Multidisciplinary Sciences' and included in the CWTS system under the heading 'Multidisciplinary journals'.

The CWTS bibliometric information system offers customers the possibility to tailor research fields and design their own classification systems based on the groupings of the journal categories. In this study we have applied the disciplinary grouping of JSCs into about 40 main fields<sup>3</sup> of science resembling the classification scheme applied in the Dutch Observatory of Science & Technology (NOWT, see [www.nowt.nl](http://www.nowt.nl)), with some minor changes suggested by the Technology Centre, making the schedule better fitting the Czech output. An overview of the classification scheme applied in this study is attached to this report in Appendix A.

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<sup>3</sup> We here use the definition of fields based on a classification of scientific journals. Although this classification is not perfect, it provides a clear and 'fixed', consistent field definition.



## 4. Research performing organizations in the Czech Republic

In this meso-level analysis, the focus is on the main scientific institutions and organizations in the Czech Republic with production in the Web of Science. For analytical purposes we finally present statistics for the 100 most productive organizations in the country.

In the general text of the report tables include up to 25 institutions (plus the Academy of Sciences as global), and in the figures up to the 10 most important institutions. The full list of institutions (100) can be found in the Appendixes at the end of the report.

In addition, institutions have been also classified in main institutional scientific sectors<sup>4</sup>. These main sectors are the following:

- Universities. Here we find the universities of the Czech Republic. Also other institutions such as the Institute of Chemical Technology in Prague, the Academies of Arts in Prague or the University of Defense, among others, are included.
- Research organizations. Under this sector we find mainly the production of the Academy of Sciences, but also the production of other major research institutes located within the Czech Republic such as the Institute for Clinical and Experimental Medicine, the Veterinary Research Institute, the Institute of Animal Science, etc.
- Hospitals. As we explained before, here we find the production of the main Czech Hospitals, provided in the address string there is no mention to any particular university. Thus, among these hospitals we find: the General University Hospital in Prague, the University Hospital in Brno, the University Hospital Motol, the Prague Psychiatric Centre, etc. We acknowledge the problem that many of these hospitals have strong links with the universities and sometimes their production can be assigned to the university (when the university appears in the string of the address, we give the credit to the university).
- Government. This sector refers mainly to institutions that are governmental and that research is not their main task, although is implicit in some of their activities. This includes for example the National Institute of Public Health and its regional branches, the Czech Army, or the Czech National Bank among others.
- Companies. Here we include private companies such as Zentiva, the Research Institute of Organic Syntheses (VUOSAS), or the Nuclear Research Institute Rez, among others.
- Other. Finally, under this denomination (when used) other more general organizations are classified, including some of the most important Museums of the Czech Republic, like the National Museum or the Moravian Museum.

These institutional sectors can provide a general picture of the distribution of publications among institutions in the country.

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<sup>4</sup> This classification in scientific sectors is used only with summarizing purposes (actually it is not requested in the tender of the proposal). For this reason we have used the standard sector classification used at CWTS. The purpose of this classification is only to give a general perspective of the scientific production from a broader perspective by aggregating the production of the different individual sectors in more general classes.

## 5. Database year & publication year

All calculations and statistics refer to database years – i.e. the year in which *Thomson Reuters Scientific* processed the publications for its WoS database. These measurements can slightly differ from those based on publication years, which refer to the publishing date of the journal issue. Some 5-10% of the publications that were issued in publication year  $t$  are processed by *Thomson Reuters Scientific* for the WoS database in the following two years  $t+1$  and  $t+2$ .

The general period of analysis comprises publications from 1993 to 2009. Only publications that during this period presented any address with the standard string “Czech Republic” were considered for the analysis (thus, publications under the denomination Czechoslovakia were not included in the study).

For the presentation of the temporal evolution of the production and impact of the different institutions and main scientific sectors, two general approaches have been used. On the one hand we have used a temporal evolution year by year (i.e. one value per year of analysis), and on the other hand a block analysis.

The year by year analysis is very straightforward and clear, but presents the disadvantage that these can present strong fluctuations (mainly due to outlier papers) that sometimes make the analysis and interpretation of the results tough.

The block analysis consists on the calculation of the different indicators for groups of years (in this case, blocks of four years). Thus, it is possible to see in a smoother way the evolution of the different indicators, making it possible to detect significant changes over time. The limitation of this approach can be that it can present more difficulties for the not well versed users of bibliometric indicators

## 6. CWTS Bibliometric indicators

The package of quantitative indicators defined for this study comprises of a set of country level ‘macro’ indicators, comparing the research performance of Germany with other countries (see section 4). These indicators can be subdivided into two classes: publication output indicators and citation impact indicators. For a more detailed technical description we refer to Appendix B.

### 6.1 Publication output indicators

Each journal publication that is indexed by the CWTS/WoS database is fully attributed to all countries listed in the author address list of the publication. The same applies to all affiliate main organizations in the author address list as well as the corresponding (main) institutional sectors of each organization. A publication that lists different units of an identical main organization is counted only once (e.g. different research departments of the same university, or subsidiaries of the same parent company).

The publication output is equal to the total number of papers published by a country during the entire period under investigation. These papers relate only to research-based publications that are published in peer-reviewed international scientific and technical journals (see section 1). Only publications reporting on original research findings are included – i.e. the document types ‘normal article’, ‘letter’, ‘note’, and ‘review article’. ‘Meeting abstracts’, ‘Corrections’, ‘Editorials’ and other document types are not included. Apart from this selection, all publications are treated equally in the computations. In a very few cases publications are published in a journal that is not fully indexed within the CWTS/WoS database; such publications are not included in analyses (see section 1).

### 6.2 Citation impact indicators

Each research publication may or may not be read by other scientists and scholars, and its contents may or may not be used in their follow-up research – either by the author(s) or by others. In the event this follow-up research is published in a research article in an international journal, the corresponding researchers and scholars tend to acknowledge the value of the research publication by adding its bibliographic details to in their list of relevant literature (the ‘reference list’). These ‘citations’ to the previous literature can be used as measure of the (international) intellectual influence and scientific impact of a piece of published research.

Hence, the international scientific impact of a country or organization is calculated on the basis of the quantity of citations received by its research papers. A cited publication is assigned in full to all countries and regions included in the author address list. The citation frequency counts in this study refer only to citations that were recorded within the WoS-indexed set of international peer-reviewed journals.

Our assumption is that, at high aggregate levels, a significant positive correlation exists between citation impact frequency and scientific ‘quality’. The number of observed citations obviously depends on the time span of measurement. The number of citations received also tends to be field-dependent, and are also related to the different document types (for example, review papers tend to receive more citations than other document types).

The citation frequency distribution of research publications worldwide is also highly skewed: at high aggregate levels some 20% of the publications tend to receive about 80% of all citations. The top percentiles of most heavily cited publications reflect the best research worldwide. The share of a country within these top publications indicates its contribution to cutting edge research worldwide and provides a crude indicator of research excellence within a domestic science system. The publications in

the top percentiles are determined separately for each subfield of science. Each publication is assigned in full to all countries included in its author address list.

The citation frequencies depend on the time-interval after the publication date during which the citations will accumulate and are counted. The accumulation of citations is counted within a pre-set time-interval – the ‘citation window’, which can be defined according to several operational criteria. These windows tend to vary from 1-2 years (short term impact, as measured in the infamous Journal Impact Factor) to as much as 10 years or longer (long term impact). A period of 4-6 years is generally considered to be of appropriate length in most fields of science to assess medium-term impact levels with a sufficient degree of validity. In this study the window was aligned to the publication window – i.e. the set of publication years and citation years are identical, and set to four years (the block system explained in section 4).

Citation may or may not include self-citations – i.e. a self-citation to a paper is a citation given in a publication of which at least one of the authors (either first author or a co-author) is also an author of the cited paper (again either first author or a co-author). These self-citations were excluded in this study. When focusing on ‘external’ impact, the counts should always exclude the author self-citations.

Within the CWTS citation analysis, field normalization is applied. This means that every paper, and particularly its impact, is compared with the papers in its own environment. As citation practices differ among fields, it is necessary to create benchmark values for citation data, in order to do right to the specific character of a country’s or unit’s output profile. Within this field-normalized impact measurement, we take into consideration the type of document (as various types of documents have different citation characteristics), and the age of the publications (as stated above, older publications have had more time to collect citation impact) as well.

As discussed above, our field-normalized impact indicator (CPP/FCSm) is a particularly powerful indicator of citation impact. This indicator relates the measured impact of a unit of analysis (a country, an institute, etc.) to a worldwide, field-specific reference value. This is then an internationally standardized impact indicator. This indicator enables us to observe immediately whether the performance of a unit of analysis is significantly far below (indicator value < 0.5), below (indicator value 0.5 - 0.8), around (0.8 - 1.2), above (1.2 - 2.0), or far above (>2.0) the international (western world dominated) impact standard of the field.

We stress however that the meaning of the numerical value of the indicator is related to the aggregation level of the entity under study. It is necessary to give some ‘exegesis’ of the ‘crown’ indicator. The higher the aggregation level, the larger the volume of publications and the more difficult it is to obtain a citation impact significantly above the international level. So for example, at the ‘meso-level’ (e.g., a whole university, or a large institute, about 500 – 1,000 publications per year), a CPP/FCSm value above 1.2, means that the institute’s impact as a whole is significantly above (the western-) world average. Then, the institute can be considered as a scientifically strong organization, with a high probability of finding very good to excellent groups. Therefore, it is important to split up large institutes into smaller groups. Only this allows a more precise assessment of research performance. Otherwise, excellent work will be ‘hidden’ within the bulk of a large institute or faculty.

At the level of a research group a CPP/FCSm value above 2 indicates a very strong group, and above 3 the groups can be, generally, considered as excellent and comparable to top-groups at the best US universities.

### 6.3 The context of bibliometric output and impact indicators

It is important to note that this study covers publications output and citation impact measures. Publication output numbers are not synonym for productivity, and just as output measures derived according to the methodology described above are proxies of a certain overall output, so are productivity measures, as this completely depends on

what you include in the formula to calculate productivity per researcher. Next, citation impact measures are by no means to be directly interpreted as synonym for ‘scientific quality’. As citation impact measures express the influence of your work on that of other researchers, the large scale quantification of citation impact data points into international influence or visibility. CWTS does not support the idea that citation impact measures could be directly interpreted as *the* measure of scientific quality, as scientific quality is a much more multi-dimensional concept, that takes into account other aspects of scientific activity as well (e.g., as can be measured through peer review, dealing with issues such as numbers of publications in other sources as international journals, grants, prizes, editorships, etc.).

Yet another statement we need to make in this section relates to the general characteristics of this particular bibliometric analysis. Within the field of bibliometrics, and the applications thereof in the assessment of research, we roughly distinguish between top down analyses, mostly focusing on country level (comparison), research fields and institutions, and bottom up analyses (in which the focus is on institutions and research group level, and even more and more individual researcher level). The both approaches require different ‘rules of the game’, for example country level analyses hardly require any interaction with experts in the respective countries, while institutional analysis in the top down mode requires information on the level addressing the proper organizations. As the level of detail is low, and the insight limited to global characteristics of the science system under study, the character of this type of studies is descriptive of nature. In the bottom up approach, more profound insights are necessary to create more detail in the analyses. This requires more interaction with research managers and researchers, even to work floor level to construct valid sets of publications, directly forthcoming from the units under study. Issues like mobility, re-organizations, etc. become important to get a proper insight into the whereabouts of the institutes, groups, or individuals under study. Given the more detailed insights required during this latter type of studies, the results can be of a much more evaluative nature, thereby allowing for more far reaching conclusions as one could ever draw based on a top down, descriptive, macro level analysis such as this. From this, we state that this is not an evaluation of the Czech science system the way it is commonly understood. For a proper evaluation of the research on work floor level, one should collect data in a completely different manner, a process CWTS has a vast experience, thereby producing bibliometric statistics on (mainly) groups level, the results of which are transferred to peer review committees who judge the research performance of groups. In this process, bibliometric scores play an instrumental role, supporting the work of the committee, in which bibliometric data are only one of the pillars of the whole process.

Finally, for the proper use and interpretation of bibliometric indicators (especially in order to avoid the possible influence of potential manipulative or “gaming” strategies) it is important to use internationally normalized indicators (such as the ones presented in this report – **CPP/FCSm**, **CPP/JCSm**, **JCSm/FCSm**, etc.), as well as the combination of several indicators for the analyses instead of relying only one or two of them. The combined use of different bibliometric indicators provide a more complete picture of the scientific performance of the different units, and also reduce the possible influence of manipulative strategies.

## Overview of standard CWTS bibliometric indicators

<b><i>P</i></b>	Number of articles (normal articles, letters, notes and reviews) published in journals processed for the internet version Web of Science (WoS) of the Thomson Scientifics' Citation Indexes (CI).
<b><i>C-sc</i></b>	Number of citations recorded in CI journals to all articles involved. Self-citations are excluded.
<b><i>CPP</i></b>	Average number of citations per publication. Self-citations are not included.
<b><i>JCSm</i></b>	Average citation rate of all articles published in the journals in which an institute/group has published (excluding self-citations). This indicators is not included in the tables, but is calculated for other indicators.
<b><i>FCSm</i></b>	Average citation rate of all articles in the fields in which the institute/group is active. Also indicated as the world citation average in those fields. Fields are defined by means of Thomson Scientific journal categories (excluding self-citations). This indicators is not included in the tables, but is calculated for other indicators.
<b><i>CPP/FCSm</i></b>	Impact of an institute/group's articles, compared to the world citation average in the (sub)fields in which the institute/group is active.
<b><i>CPP/JCSm</i></b>	Impact of an institute/group's articles, compared to the average citation rate of the institute/group's journals.
<b><i>JCSm/FCSm</i></b>	Impact of the journals in which an institute/group has published, compared to the world citation average in the fields covered by these journals.
<b><i>%nc</i></b>	Percentage of articles not cited during the time period considered.
<b><i>%sc (Self-citations)</i></b>	Percentage of self-citations. A self-citation is defined as a citation in which the citing and the cited paper have at least one author in common (first author or co-author).

## 7. Specific bibliometric analyses delivered to the Czech government

### 7.1 Scientific cooperation Analysis

Indicators for scientific collaboration are based on an analysis of all addresses in papers published by a research unit. Each paper is classified in one of three categories. First, we identified all papers authored by scientists from one research unit only. These papers are classified as ‘single institute’, as they involve no collaboration or only ‘internal’ collaboration. The remaining papers are classified as ‘national collaboration’ when all addresses on a paper are from the same country (i.e. the Czech Republic). Finally, papers containing addresses from at least two different countries (i.e. Czech Republic and other countries) are assigned to the type ‘international collaboration’. Papers in each of the three categories are aggregated for each unit of analysis, and for each of these aggregated sets, impact and output indicators are computed.

The purpose of this analysis is to show (1) how frequently a research unit has co-published papers with other research units, (2) how the impact of papers resulting from national or international collaboration compares to the impact of papers authored by scientists from one unit of analysis only, and (3) how this collaboration and its impact (mainly the CPP/FCSm) has evolved over time for the different research institutions in the Czech Republic.

Finally it is important to remark that the analysis of collaboration is intended to represent the scientific work done among different partners or institutions in the development of their scientific activities, strategies and objectives. In this sense, cases like double appointments of researchers or PhD students between two organizations (e.g. the Academy of Sciences and the University) would be considered as collaboration from the bibliometric data point of view.

### 7.2 Extra material provided

Different tables in EXCEL format have been also delivered as a result of the development of this report. These tables are the following:

- **EXTRA\_MATERIAL\_1:** This table includes the basic indicators for all the 100 main research organizations in the Czech Republic. The different columns included are the following:
  - *English name:* this is the standardized name of the individual institution.
  - *Indicator:* this refers to the different indicators explained in the chapter 6.3 (excluding only *FCSm* and *JCSm*) that are presented in the different rows for each of the institutes presented.
  - *Total:* this is the total value of each indicator for the different individual institutions.
  - *Block periods from 1993-1996 to 2006-2009:* scores in the different indicators for each indicator referring only to the block period indicated in this column.
- **EXTRA\_MATERIAL\_2:** This table includes the same information as in the previous table but in this case including the information disaggregated for the different types of collaboration of the publications.
- **EXTRA\_MATERIAL\_3:** Again this includes the same information as in the previous tables but this time disaggregating the indicators for each of the fields defined (only fields with at least 5 publications are shown for each institution).

## 8. Results

The results obtained for the institutional analysis are presented in four main parts. In the first place, the overall bibliometric indicators for the different institutional sectors and main institutions of the Czech Republic. Secondly the analysis of the evolution of the production and normalized impact of the different sectors and institutions of the country are presented. Thirdly, the collaborative activity of the institutes is studied. Finally, the distribution of the production and impact of Czech institutions among the main research fields selected (described in section 3) is presented.

In general terms, in all the chapters, there is a first part where the bibliometric indicators for the main institutional sectors in the country are presented, thus giving an overall picture of the institutional performance; followed by the analysis of the scientific performance of the main institutions in the country (institutional analysis). In addition, complete Appendixes have been added in order to present the full information for a broader list (100) of individual scientific institutions in the Czech Republic.

Finally, also extra tables (excel file: “EXTRA MATERIAL CZECH AUDIT.xls”) has been provided, including the temporal evolution –block approach- for all the main indicators for the first 100 Czech research institutions.

### 8.1 Overall bibliometric results of the Czech Republic scientific organizations

In this chapter the main bibliometric indicators for the different institutional scientific sectors and individual research institutions are presented.

#### 8.1.1 Institutional Sectors

Table 1 Main bibliometric indicators for Czech institutional sectors

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc
Universities	50449	243598	4.83	0.86	0.59	0.69	39%
Research organizations	44383	298138	6.72	0.86	0.69	0.79	31%
Hospitals	5088	32433	6.37	1.06	0.63	0.59	38%
Companies	3515	11761	3.35	0.83	0.42	0.51	45%
Government	1858	11049	5.95	0.95	0.61	0.64	36%
Other	698	2196	3.15	1.09	0.56	0.51	52%

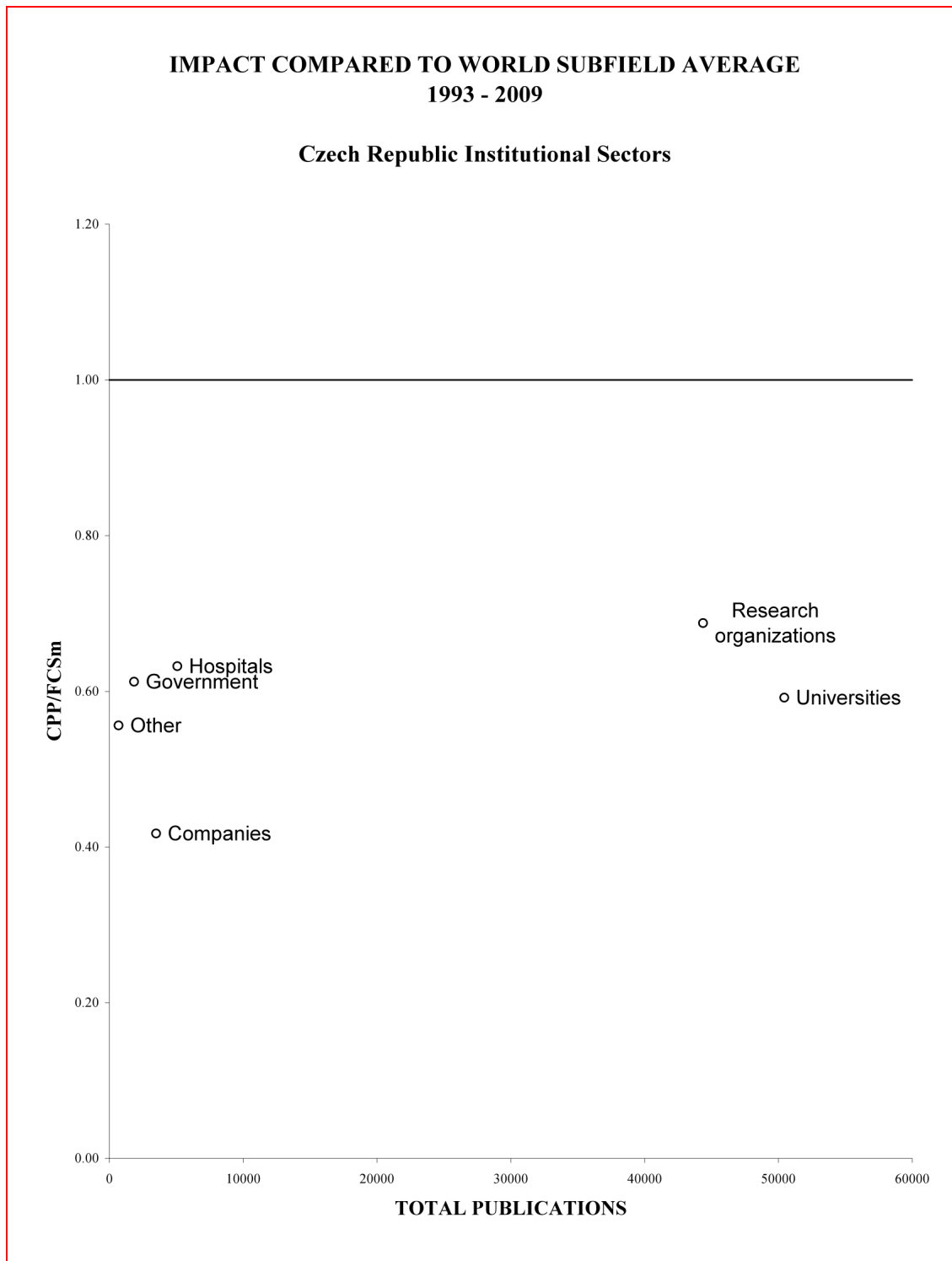
Table 1 shows that Universities and Research organizations are the main players in the research activities of the country, participating in more than 50% of the production of the country<sup>5</sup>. Hospitals also play an important role, but we have to keep in mind that part of their production is also included in the sector of universities. Finally it is also interesting to note the role of private companies that participate in around the 4% of the production of the country.

<sup>5</sup> The total production of the Czech Republic recorded for the period 1993-2009 amounts a total of 85575 publications (see report at country level). This is the value we use for the calculation of the percentages.



Figure 1 shows the main institutional sectors of the country by production (total publications) and their field-normalized impact (CPP/FCSm). As one can see, none of the sectors have an impact above international level (here determined by the level 1). The sector of Research organizations presents the closer impact to international level, but still far below 1.

Figure 1 Main institutional sectors by production and field-normalised impact



### 8.1.2 Main Institutions

In this section bibliometric indicators are presented for the main institutions of the country. The 25 first institutions by production (without counting the global values for the Academy of Sciences) are presented in Table 2. The full list with the 100 first institutions is presented in Appendix B.

Table 2 Main Czech scientific institutions

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Academy of Sciences (global)	38948	259745	6.67	0.84	0.68	0.81	30%	34%
Charles University in Prague	21775	129579	5.95	0.87	0.65	0.75	35%	32%
Institute of Physics ASCR	6502	38997	6.00	0.83	0.79	0.95	34%	40%
Masaryk University	6101	30928	5.07	0.89	0.60	0.67	36%	32%
Institute of Chemical Technology Prague	4483	20013	4.46	0.78	0.43	0.54	37%	34%
Czech Technical University in Prague	3632	10492	2.89	0.81	0.55	0.67	50%	37%
Palacky University Olomouc	3341	16813	5.03	0.92	0.64	0.70	41%	29%
J. Heyrovsky Institute of Physical Chemistry ASCR	2724	29758	10.92	0.97	0.96	1.00	21%	32%
Biology Centre ASCR	2705	17489	6.47	0.88	0.68	0.78	25%	33%
University of South Bohemia in Ceske Budejovice	2698	14202	5.26	0.90	0.74	0.83	34%	31%
Institute of Organic Chemistry and Biochemistry ASCR	2652	20000	7.54	0.90	0.66	0.74	25%	36%
Institute of Macromolecular Chemistry ASCR	2137	15760	7.37	0.85	0.77	0.91	26%	32%
Institute of Microbiology ASCR	2079	15331	7.37	0.75	0.52	0.69	22%	30%
University of Pardubice	2061	9616	4.67	0.86	0.58	0.67	36%	36%
Institute of Physiology ASCR	2060	17322	8.41	0.64	0.51	0.79	24%	32%
Nuclear Physics Institute ASCR	1881	10408	5.53	0.94	0.74	0.79	37%	42%
Brno University of Technology	1812	4421	2.44	0.66	0.39	0.60	52%	36%
University of Veterinary and Pharmaceutical Sciences Brno	1445	3466	2.40	0.92	0.49	0.53	43%	36%
Mendel University in Brno	1355	4080	3.01	0.90	0.46	0.51	43%	41%
Czech University of Life Sciences Prague	1278	3091	2.42	0.99	0.43	0.44	48%	34%
Institute of Chemical Process Fundamentals ASCR	1262	6458	5.12	0.67	0.56	0.84	30%	39%
Institute of Molecular Genetics ASCR	1166	13582	11.65	0.77	0.65	0.85	20%	28%
Institute of Biophysics ASCR	1125	13830	12.29	0.99	0.92	0.93	19%	36%
VSB-Technical University of Ostrava	1041	2446	2.35	0.88	0.49	0.55	56%	34%
Institute of Mathematics ASCR	1038	3283	3.16	1.11	0.92	0.83	45%	33%
Astronomical Institute ASCR	1028	5219	5.08	0.53	0.42	0.79	32%	38%

Table 2 shows that there are two major actors in the Czech Republic, the Academy of Sciences as a whole (global), participating in more than 45% of all the scientific publications of the country, followed by Charles University in Prague which participates in around 1/4 of all the publications.

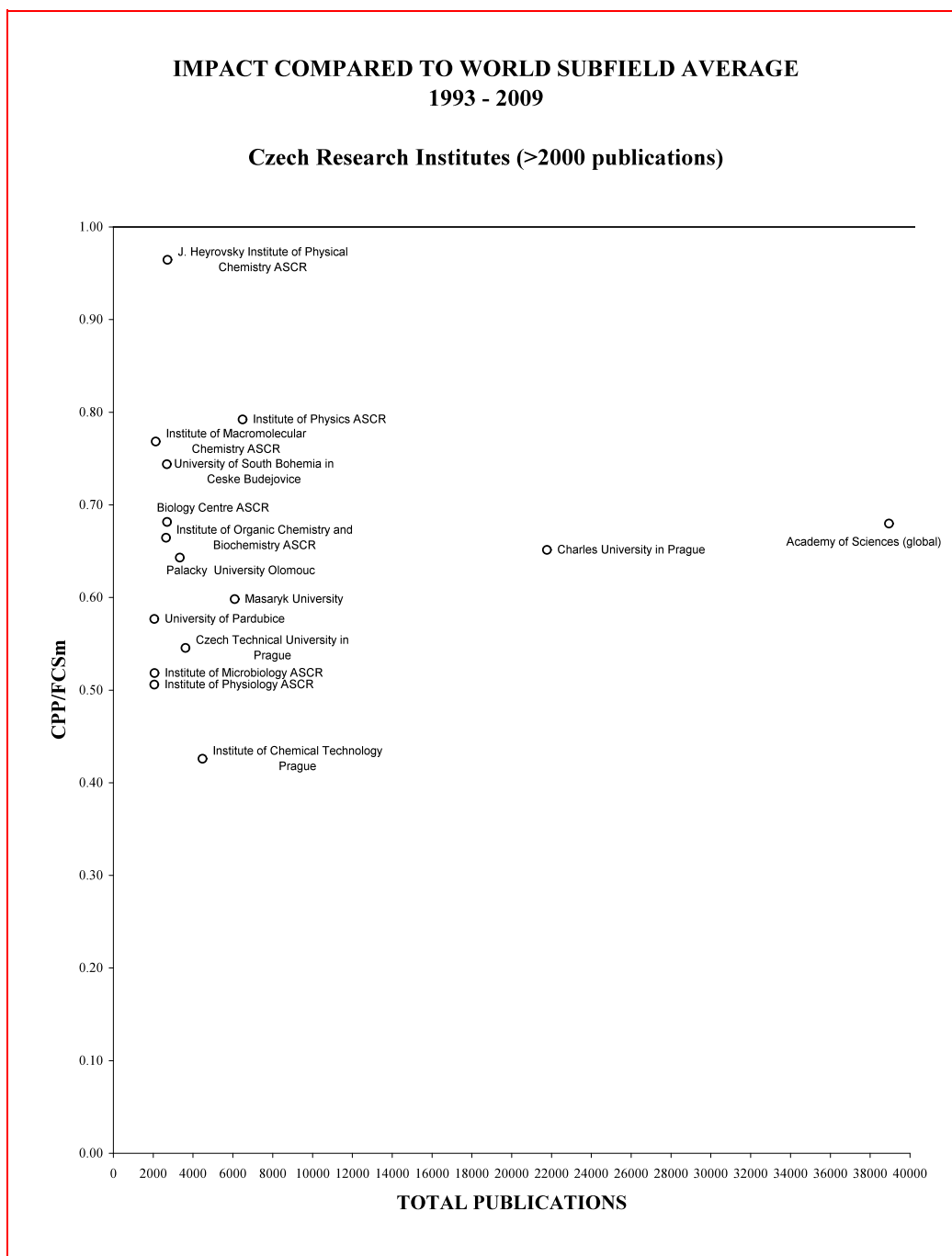
It is also interesting to see how this Table is strongly dominated by the Institutes of the Academy of Sciences (the Institute of Physics, the Biology Centre, the Institutes of Macromolecular Chemistry, Microbiology, etc.).

Besides them, other major institutes and universities are the Masaryk University, the Institute of Chemical Technology in Prague, the Czech Technical University in Prague

or the Palacky University in Olomouc (all of them with more than 3000 publications during the period 1993-2009) among others. We can also highlight here that two Czech universities appear in the Top500 universities of the 2010 Leiden Ranking (<http://media.leidenuniv.nl/legacy/leidenr-2010-w500-lichtgeel.pdf>) by production. These are: the Charles University in Prague (156) and the Masaryk University (476).

Figure 2 presents the distribution of institutes with more than 2000 publications by production and impact.

Figure 2 Main national institutions by production and field-normalised impact



Again Figure 2 shows how none of the main scientific institutes in the Czech Republic presents a field-normalized impact (CPP/FCSm) higher than the international level (determined by the level 1). It is remarkable that most of the institutions with the highest CPP/FCSm values are institutes of the Academy of Sciences (the J. Heyrovsky Institute of Physical Chemistry – very close to the international level 1-, the Institute of Physics or the Institute of Macromolecular Chemistry). The University of South Bohemia also presents a relatively high normalized-impact as compared to the other institutions.

## 8.2 Evolution over time of scientific publications

In this chapter the evolution of the production and its impact over time is presented for the different institutional sectors and research institutions in the Czech Republic.

### 8.2.1 Institutional Sectors

In the first place, Table 3 presents the evolution of the research production for the different institutional sectors. This is the production year by year for the different institutional sectors under study.

Table 3 Evolution of the scientific production by institutional sectors – year by year

Sector	P	1994 <sup>6</sup>	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Universities	50449	1445	1583	1836	2003	2110	2245	2401	2626	2875	3314	3344	4007	4113	4557	5814	6170
Research organisations	44383	1970	2016	2211	2193	2364	2357	2398	2571	2590	2861	2789	3278	3311	3359	4061	4045
Hospitals	5088	87	122	152	164	169	178	217	238	240	348	306	428	398	537	744	760
Companies	3515	129	127	178	190	172	201	203	200	202	210	161	252	235	280	398	377
Government	1858	78	76	85	92	76	105	90	100	129	117	109	140	144	166	177	174
Other	698	21	16	21	21	21	27	25	22	20	41	49	46	49	70	113	136

As it can be seen, both in Table 3 and Figure 3, the evolution of the scientific production in all the institutional sectors of the Czech Republic is positive over time, presenting a steady increase during the whole period of analysis.

<sup>6</sup> The year 1993 has been excluded from this presentation due to its low number of publications.

Figure 3 Evolution of the number of publications by institutional sectors – year by year

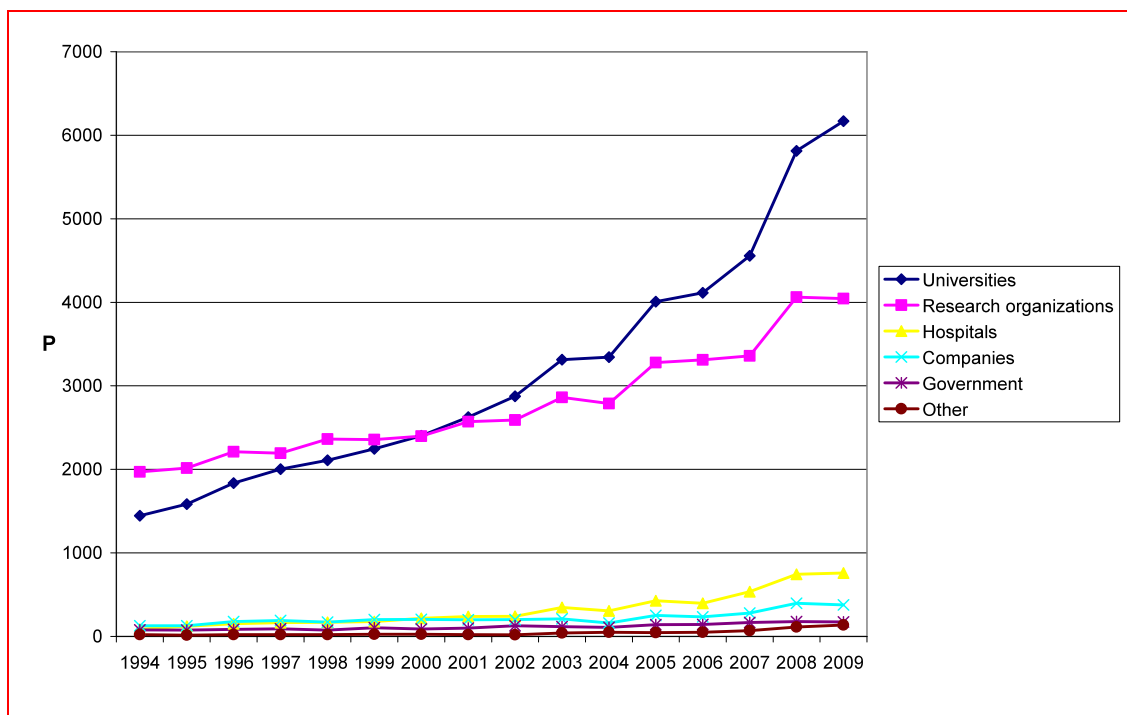


Figure 3 also suggests that the increment of production among universities has been relatively larger than for general Research organizations, outperforming their production from the year 2000 onwards.

### 8.2.1.1 Evolution by blocks

In this sub-paragraph, as in the previous one, we present the evolution of production but this time using the block analysis approach. This allows us to observe the evolution of the research production (Table 4 and Figure 4) and the normalized impact – CPP/FCSm – (Table 5 and Figure 5) in a smoother way.

Table 4 Evolution of the scientific production by institutional sectors – block analysis

Sector	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Universities	4870	6867	7532	8194	8759	9382	10147	11216	12159	13540	14778	16021	18491	20654
Research organisations	6206	8390	8784	9125	9312	9690	9916	10420	10811	11518	12239	12737	14009	14776
Hospitals	361	525	607	663	728	802	873	1043	1132	1322	1480	1669	2107	2439
Companies	434	624	667	741	766	776	806	815	773	825	858	928	1165	1290
Government	239	331	329	358	363	371	424	436	455	495	510	559	627	661
Other	58	79	79	90	94	95	94	108	132	156	185	214	278	368

Figure 4 Evolution of the number of publications by institutional sectors – block analysis

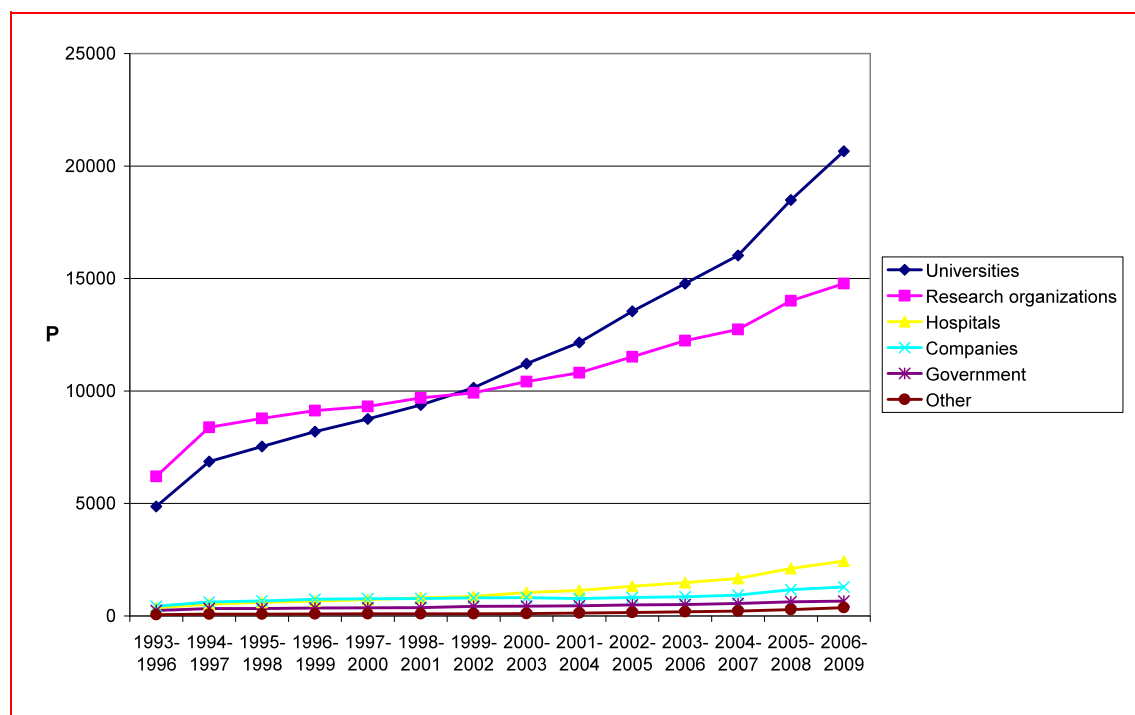
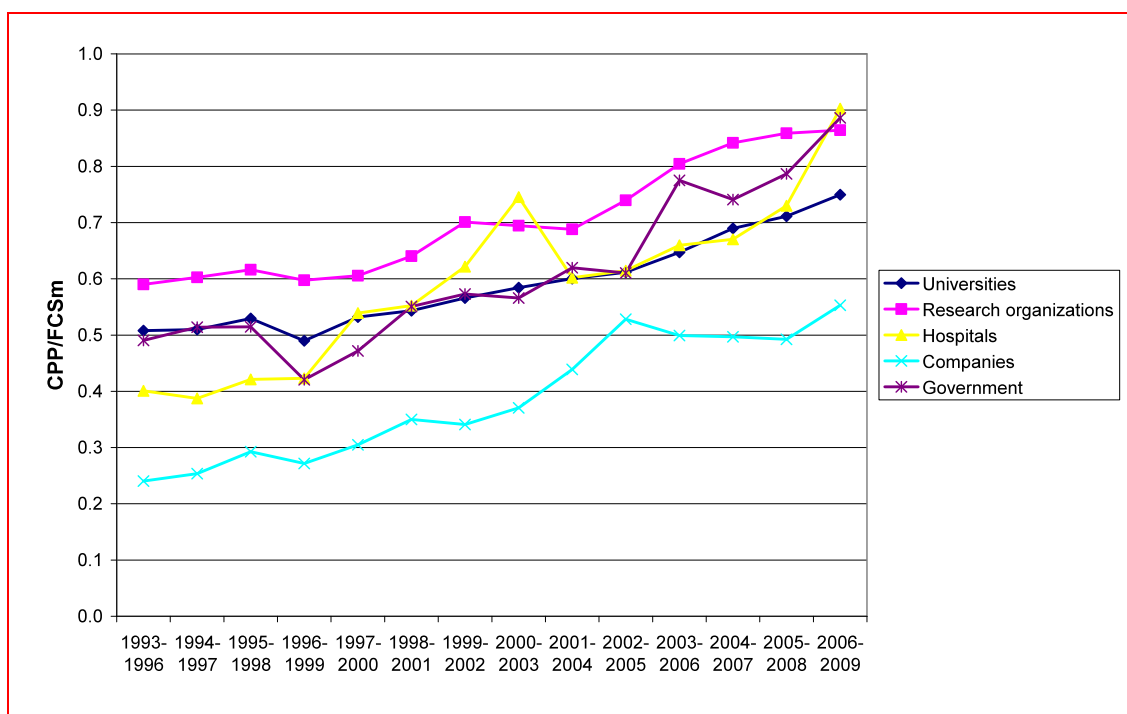


Table 5 Evolution of CPP/FCSm by institutional sectors – block analysis

Sector	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Universities	0.51	0.51	0.53	0.49	0.53	0.54	0.57	0.58	0.60	0.61	0.65	0.69	0.71	0.75
Research organisations	0.59	0.60	0.62	0.60	0.61	0.64	0.70	0.69	0.69	0.74	0.80	0.84	0.86	0.86
Hospitals	0.40	0.39	0.42	0.42	0.54	0.55	0.62	0.75	0.60	0.61	0.66	0.67	0.73	0.90
Companies	0.24	0.25	0.29	0.27	0.30	0.35	0.34	0.37	0.44	0.53	0.50	0.50	0.49	0.55
Government	0.49	0.51	0.51	0.42	0.47	0.55	0.57	0.57	0.62	0.61	0.78	0.74	0.79	0.89
Other	0.29	0.25	0.31	0.27	0.31	0.29	0.14	0.11	0.30	0.43	0.86	1.64	2.20	0.56

Figure 5 Evolution of CPP/FCSm by institutional sectors – block analysis



As it can be observed in previous tables (4 and 5) and figures (4 and 5), there is a clear increasing pattern both in production and in impact over time for all the main institutional sectors in the Czech Republic. Regarding the normalized impact (Figure 5), a remarkable increment is detected although this impact is still below the international level (here noted by the value 1).

### 8.2.2 Main Institutions

In this paragraph the evolution of the production and impact of the main research institutions in the Czech Republic is presented. The 25 first institutions by production are in the following tables. For a broader perspective, in Appendix C the first 100 institutions of the country are presented.

#### 8.2.2.1 Evolution year by year

In Table 6 the evolution of the number of publications for the 25 main Czech institutions (apart from the Academy of Sciences –global) is presented in a year by year basis. The year 1993 has been excluded from this presentation. The main institutions show a clear increasing pattern in their production over time. This can be clearly observed in Figure 6 where the 5 main Czech scientific institutions (plus the Academy of Sciences as a whole) present an increasing pattern in their production.

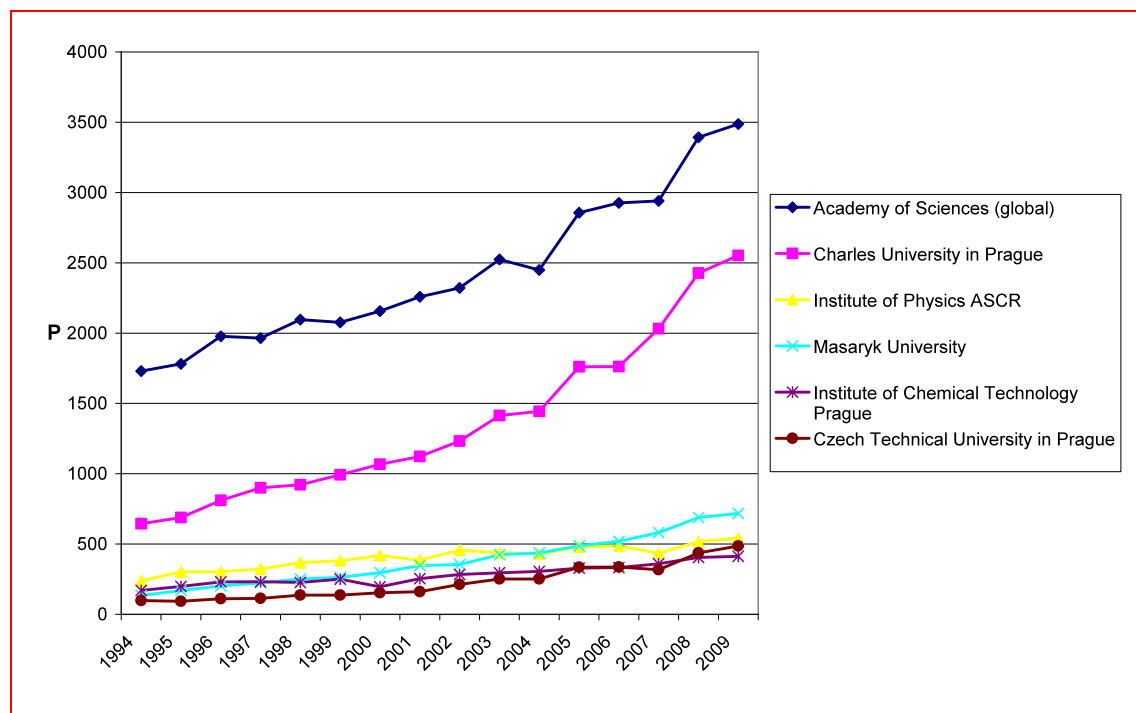


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Table 6 Evolution of the scientific production by main institutions – year by year

Institute	P	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Academy of Sciences (global)	38948	1730	1781	1978	1964	2096	2077	2157	2259	2322	2524	2449	2856	2926	2940	3393	3487
Charles University in Prague	21775	644	688	811	900	922	992	1067	1123	1233	1414	1444	1761	1762	2031	2427	2552
Institute of Physics ASCR	6502	238	303	303	322	367	381	418	386	457	437	428	480	487	434	517	541
Masaryk University	6101	134	170	203	224	252	263	297	347	354	424	437	487	520	582	688	718
Institute of Chemical Technology Prague	4483	170	199	231	232	227	250	196	254	284	295	306	329	333	360	405	412
Czech Technical University in Prague	3632	98	93	111	113	137	137	154	161	213	251	252	335	336	317	437	486
Palacky University Olomouc	3341	60	78	106	106	114	128	137	175	198	202	225	249	288	320	448	507
J. Heyrovsky Institute of Physical Chemistry ASCR	2724	131	147	163	154	197	154	166	184	177	224	165	169	173	137	184	199
Biology Centre ASCR	2705	143	116	121	138	132	142	173	148	152	155	168	209	210	196	244	258
University of South Bohemia in Ceske Budejovice	2698	36	38	40	59	79	97	118	112	145	176	171	237	251	301	381	457
Institute of Organic Chemistry and Biochemistry ASCR	2652	121	92	136	120	125	115	108	137	139	149	163	212	221	238	299	277
Institute of Macromolecular Chemistry ASCR	2137	102	91	143	97	116	111	133	142	146	124	139	149	163	149	166	166
Institute of Microbiology ASCR	2079	114	85	130	114	135	103	109	125	124	148	135	125	139	140	169	184
University of Pardubice	2061	92	85	73	101	93	85	113	99	111	121	129	146	161	202	215	235
Institute of Physiology ASCR	2060	102	99	131	144	134	110	113	129	105	142	143	118	128	130	159	173
Nuclear Physics Institute ASCR	1881	76	100	95	95	113	103	119	118	101	127	120	148	140	142	137	147
Brno University of Technology	1812	47	60	76	72	82	94	109	89	90	101	99	147	148	148	215	235
University of Veterinary and Pharmaceutical Sciences Brno	1445	35	40	29	35	57	36	41	67	86	94	89	118	147	188	201	182
Mendel University in Brno	1355	45	22	54	42	46	57	70	73	81	97	93	101	98	118	181	177
Czech University of Life Sciences Prague	1278	24	55	44	56	57	44	46	57	55	65	66	99	64	95	250	201
Institute of Chemical Process Fundamentals ASCR	1262	75	66	63	65	59	69	73	82	68	77	67	98	96	99	98	106
Institute of Molecular Genetics ASCR	1166	57	43	54	68	69	69	57	82	82	82	87	100	72	82	96	66
Institute of Biophysics ASCR	1125	31	33	48	46	52	37	65	63	75	85	79	75	88	109	125	114
VSB-Technical University of Ostrava	1041	9	18	37	41	37	46	44	54	48	66	72	64	77	90	153	185
Institute of Mathematics ASCR	1038	36	46	38	45	46	68	63	68	58	79	58	72	69	89	88	115
Astronomical Institute ASCR	1028	32	51	66	54	48	62	55	53	49	53	61	65	104	88	98	89

Figure 6 Evolution of the number of publications of the 5 main institutions (plus Academy of Sciences – global) – year by year



In Table 1 and Figure 7 the evolution of the production for the main Czech scientific institutions is presented using the block approach (Appendix D presents the whole list for the 100 first Czech institutions). Again, as previously observed, the trend in production is clearly increasing for the main scientific institutions in the Czech Republic.

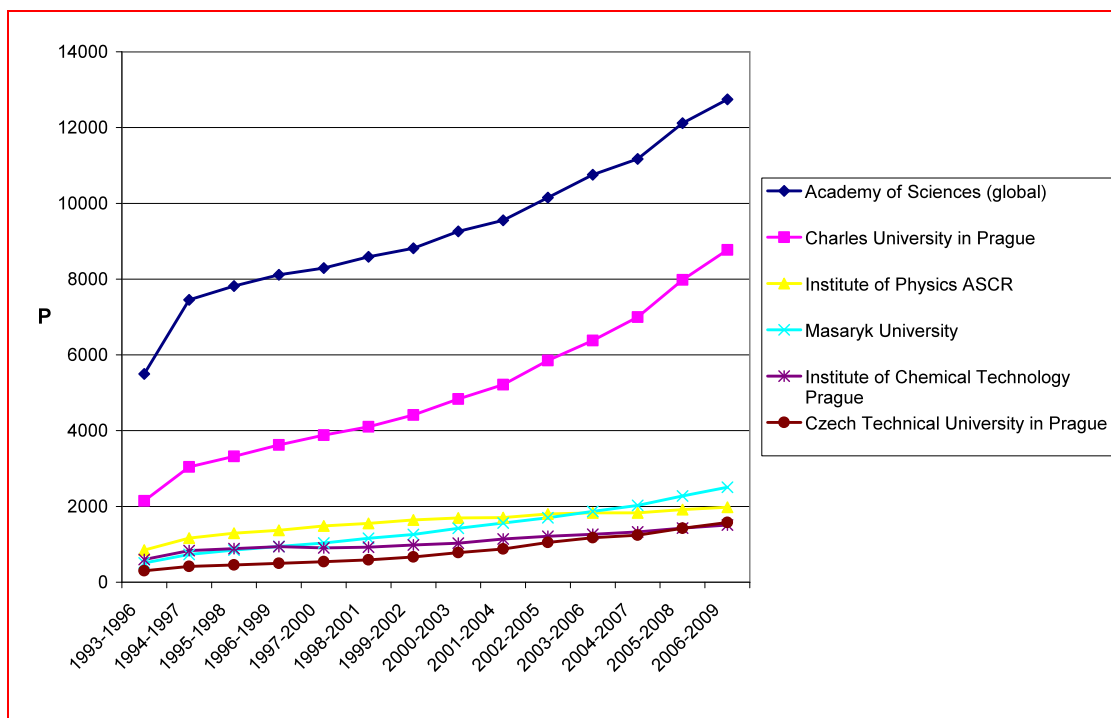
Table 7 Evolution of publications by main institutions – block analysis

<b>Institute</b>	<b>1993-1996</b>	<b>1994-1997</b>	<b>1995-1998</b>	<b>1996-1999</b>	<b>1997-2000</b>	<b>1998-2001</b>	<b>1999-2002</b>	<b>2000-2003</b>	<b>2001-2004</b>	<b>2002-2005</b>	<b>2003-2006</b>	<b>2004-2007</b>	<b>2005-2008</b>	<b>2006-2009</b>
Academy of Sciences (global)	5498	7453	7819	8115	8294	8589	8815	9262	9554	10151	10755	11171	12115	12746
Charles University in Prague	2147	3043	3321	3625	3881	4104	4415	4837	5214	5852	6381	6998	7981	8772
Institute of Physics ASCR	847	1166	1295	1373	1488	1552	1642	1698	1708	1802	1832	1829	1918	1979
Masaryk University	508	731	849	942	1036	1159	1261	1422	1562	1702	1868	2026	2277	2508
Institute of Chemical Technology Prague	600	832	889	940	905	927	984	1029	1139	1214	1263	1328	1427	1510
Czech Technical University in Prague	303	415	454	498	541	589	665	779	877	1051	1174	1240	1425	1576
Palacky University Olomouc	244	350	404	454	485	554	638	712	800	874	964	1082	1305	1563
J. Heyrovsky Institute of Physical Chemistry ASCR	441	595	661	668	671	701	681	751	750	735	731	644	663	693
Biology Centre ASCR	380	518	507	533	585	595	615	628	623	684	742	783	859	908
University of South Bohemia in Ceske Budejovice	114	173	216	275	353	406	472	551	604	729	835	960	1170	1390
Institute of Organic Chemistry and Biochemistry ASCR	349	469	473	496	468	485	499	533	588	663	745	834	970	1035
Institute of Macromolecular Chemistry ASCR	336	433	447	467	457	502	532	545	551	558	575	600	627	644
Institute of Microbiology ASCR	329	443	464	482	461	472	461	506	532	532	547	539	573	632
University of Pardubice	250	351	352	352	392	390	408	444	460	507	557	638	724	813
Institute of Physiology ASCR	332	476	508	519	501	486	457	489	519	508	531	519	535	590
Nuclear Physics Institute ASCR	271	366	403	406	430	453	441	465	466	496	535	550	567	566
Brno University of Technology	183	255	290	324	357	374	382	389	379	437	495	542	658	746
University of Veterinary and Pharmaceutical Sciences Brno	104	139	161	157	169	201	230	288	336	387	448	542	654	718
Mendel University in Brno	121	163	164	199	215	246	281	321	344	372	389	410	498	574
Czech University of Life Sciences Prague	123	179	212	201	203	204	202	223	243	285	294	324	508	610
Institute of Chemical Process Fundamentals ASCR	205	269	253	256	266	283	292	300	294	310	338	360	391	399
Institute of Molecular Genetics ASCR	154	222	234	260	263	277	290	303	333	351	341	341	350	316
Institute of Biophysics ASCR	112	158	179	183	200	217	240	288	302	314	327	351	397	436
VSB-Technical University of Ostrava	64	105	133	161	168	181	192	212	240	250	279	303	384	505
Institute of Mathematics ASCR	120	165	175	197	222	245	257	268	263	267	278	288	318	361

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<b>Institute</b>	<b>1993-1996</b>	<b>1994-1997</b>	<b>1995-1998</b>	<b>1996-1999</b>	<b>1997-2000</b>	<b>1998-2001</b>	<b>1999-2002</b>	<b>2000-2003</b>	<b>2001-2004</b>	<b>2002-2005</b>	<b>2003-2006</b>	<b>2004-2007</b>	<b>2005-2008</b>	<b>2006-2009</b>
Astronomical Institute ASCR	149	203	219	230	219	218	219	210	216	228	283	318	355	379

Figure 7 Evolution of the number of publications of the 5 main institutions (plus Academy of Sciences – global) – block analysis



The study of the evolution of the normalized-impact (i.e. CPP/FCSm indicator) over time is presented in Table 8 and Figure 8. Again shows that there is an increasing pattern for the main institutions in the country (Appendix E for the whole list of the 100 first institutions). However, only the Institute of Physics of the Academy has occasionally surpassed the international level (again denoted by the value 1). The rest of the institutions (at least among the 5 first – Figure 8) present the abovementioned increased in impact but still below the international level.

Bibliometric Analysis of the Czech Republic Research Output in an International Context – Institutional Analysis / Annex 8 to the Second Interim Report

Table 8 Evolution of CPP/FCSm by main institutions – block analysis

Institute	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Academy of Sciences (global)	0.59	0.61	0.63	0.61	0.61	0.64	0.70	0.69	0.69	0.72	0.78	0.83	0.84	0.83
Charles University in Prague	0.65	0.65	0.69	0.60	0.61	0.61	0.62	0.64	0.65	0.66	0.70	0.77	0.81	0.85
Institute of Physics ASCR	0.96	0.98	1.11	1.03	0.91	0.90	0.91	0.93	0.86	0.77	0.95	1.14	1.08	1.00
Masaryk University	0.51	0.44	0.40	0.41	0.55	0.57	0.62	0.66	0.74	0.61	0.62	0.68	0.71	0.72
Institute of Chemical Technology Prague	0.28	0.30	0.31	0.34	0.39	0.39	0.45	0.40	0.44	0.50	0.53	0.51	0.47	0.48
Czech Technical University in Prague	0.30	0.32	0.35	0.40	0.35	0.34	0.38	0.44	0.46	0.44	0.54	0.62	0.82	0.93
Palacky University Olomouc	0.48	0.53	0.49	0.48	0.62	0.41	0.55	0.55	0.61	0.64	0.68	0.71	0.73	0.82
J. Heyrovsky Institute of Physical Chemistry ASCR	1.17	1.08	0.95	0.93	0.87	0.96	1.19	1.08	0.99	0.99	0.89	0.87	0.77	0.74
Biology Centre ASCR	0.48	0.49	0.60	0.66	0.69	0.65	0.62	0.57	0.69	0.75	0.76	0.74	0.70	0.80
University of South Bohemia in Ceske Budejovice	0.37	0.39	0.40	0.60	0.63	0.64	0.65	0.64	0.72	0.71	0.75	0.75	0.74	0.74
Institute of Organic Chemistry and Biochemistry ASCR	0.37	0.38	0.39	0.39	0.37	0.48	0.62	0.71	0.76	0.82	0.87	0.92	1.00	1.09
Institute of Macromolecular Chemistry ASCR	0.54	0.59	0.66	0.66	0.74	0.77	0.90	0.88	0.71	0.77	0.76	0.81	0.83	0.90
Institute of Microbiology ASCR	0.41	0.42	0.33	0.36	0.41	0.47	0.56	0.57	0.60	0.54	0.55	0.56	0.67	0.78
University of Pardubice	0.30	0.38	0.51	0.36	0.33	0.40	0.42	0.47	0.51	0.62	0.66	0.63	0.63	0.64
Institute of Physiology ASCR	0.46	0.53	0.62	0.50	0.48	0.55	0.55	0.47	0.50	0.50	0.57	0.71	0.68	0.64
Nuclear Physics Institute ASCR	0.38	0.41	0.45	0.54	0.52	0.53	0.69	0.75	0.85	1.03	1.22	1.30	1.27	0.90
Brno University of Technology	0.25	0.23	0.17	0.21	0.29	0.40	0.36	0.39	0.35	0.29	0.35	0.43	0.45	0.58
University of Veterinary and Pharmaceutical Sciences Brno	0.07	0.11	0.19	0.29	0.48	0.54	0.43	0.50	0.52	0.47	0.41	0.42	0.55	0.56
Mendel University in Brno	0.23	0.23	0.37	0.34	0.42	0.39	0.44	0.37	0.33	0.46	0.58	0.67	0.64	0.69
Czech University of Life Sciences Prague	0.46	0.43	0.39	0.29	0.30	0.38	0.33	0.32	0.36	0.48	0.44	0.44	0.56	0.73
Institute of Chemical Process Fundamentals ASCR	0.43	0.48	0.45	0.54	0.59	0.42	0.45	0.41	0.48	0.59	0.61	0.69	0.63	0.56
Institute of Molecular Genetics ASCR	0.66	0.66	0.58	0.47	0.51	0.61	0.81	0.74	0.72	0.81	0.75	0.82	0.86	0.76
Institute of Biophysics ASCR	0.57	0.59	0.69	0.82	0.81	0.68	0.80	0.84	0.94	0.90	0.83	0.88	0.90	0.89
VSB-Technical University of Ostrava	0.09	0.13	0.23	0.25	0.39	0.51	0.39	0.49	0.45	0.44	0.58	0.61	0.53	0.49
Institute of Mathematics ASCR	0.45	0.66	0.61	0.76	0.75	0.65	0.67	0.67	0.97	1.01	1.15	1.10	0.91	0.84

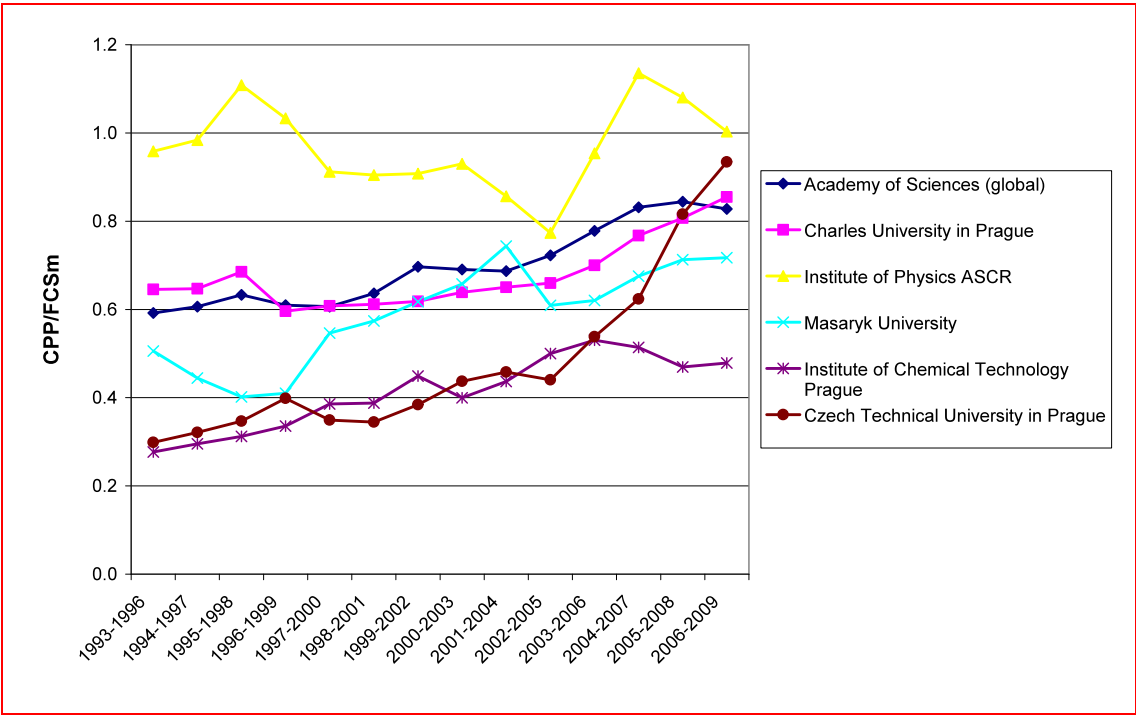
Bibliometric Analysis of the Czech Republic Research Output in an International Context – Institutional Analysis / Annex 8 to the Second Interim Report

<b>Institute</b>	<b>1993-1996</b>	<b>1994-1997</b>	<b>1995-1998</b>	<b>1996-1999</b>	<b>1997-2000</b>	<b>1998-2001</b>	<b>1999-2002</b>	<b>2000-2003</b>	<b>2001-2004</b>	<b>2002-2005</b>	<b>2003-2006</b>	<b>2004-2007</b>	<b>2005-2008</b>	<b>2006-2009</b>
Astronomical Institute ASCR	0.24	0.28	0.35	0.37	0.41	0.42	0.48	0.48	0.40	0.39	0.44	0.42	0.46	0.48





Figure 8 Evolution of CPP/FCS of the 5 main institutions (plus Academy of Sciences – global) – block analysis



### 8.3 International cooperation

In this chapter the collaborative patterns of the different institutional sectors and institutions in the Czech Republic are studied. In this sense we describe three main types of cooperation: International cooperation, National cooperation (where only Czech institutions are involved) and Single institute (when the publication is authored by one or more researchers from just one single institution).

#### 8.3.1 Institutional sectors

Table 9 shows the main bibliometric indicators for the Czech institutional sectors considering the three cooperation types. As it can be seen, the CPP/FCSm of all sectors is higher for the publications in international collaboration, while the lowest scores are found for the production without collaboration.

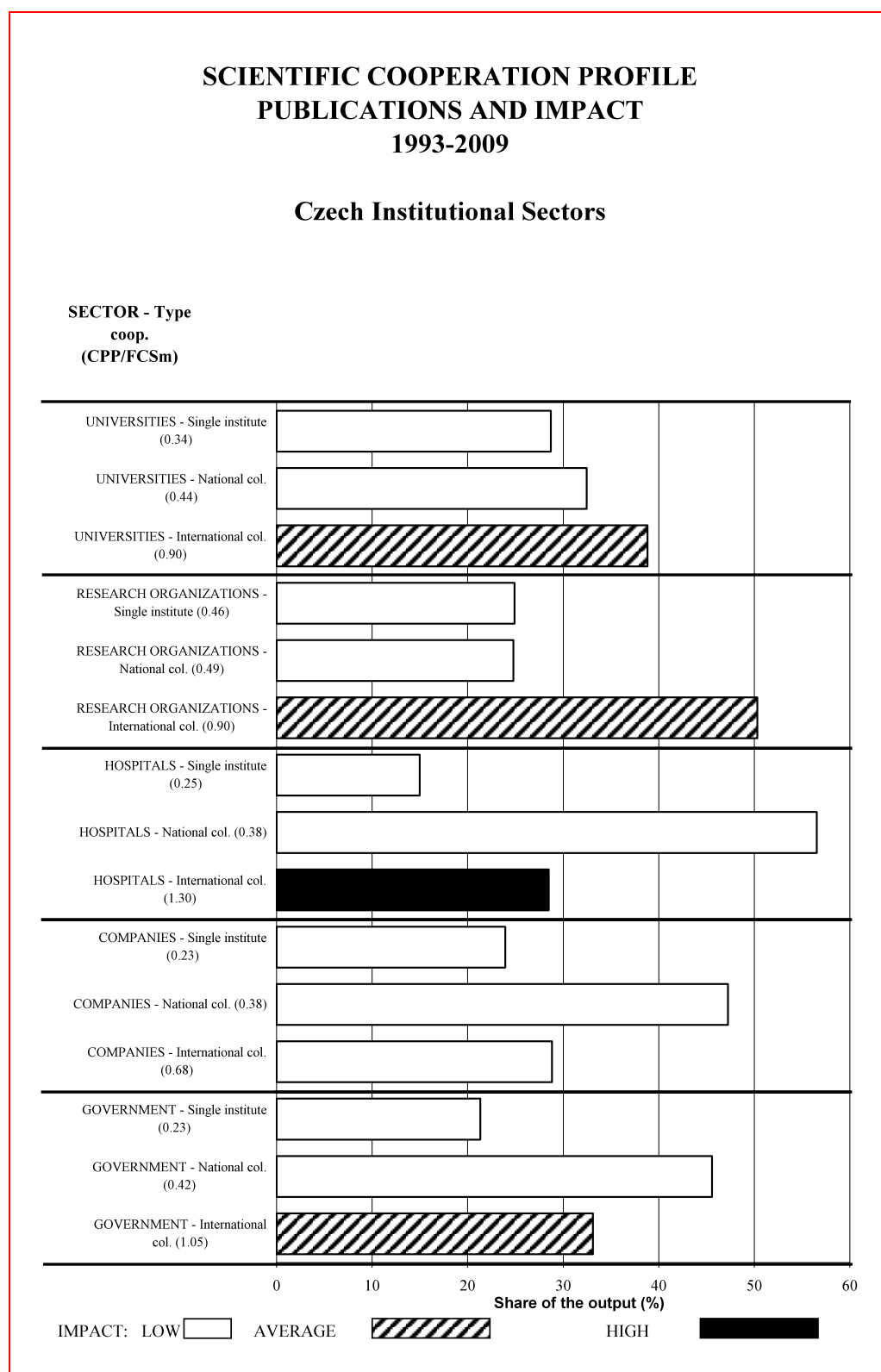
Table 9 Main bibliometric indicators for Czech institutional sectors and cooperation type

Sector	Type coop.	%	P	C-sc	CPP	CPP/JCSm	CPP/FCSm	CPP/FCSm	JCSm/FCSm	%nc	%sc
Universities	Single institute	29	14487	40179	2.77	0.75	0.34	0.34	0.46	50%	31%
	National col.	32	16371	59836	3.65	0.77	0.44	0.44	0.57	40%	33%
	International col.	39	19591	143583	7.33	0.95	0.90	0.90	0.95	31%	32%
Research organizations	Single institute	25	11050	54729	4.95	0.75	0.46	0.46	0.62	36%	30%
	National col.	25	10995	47938	4.36	0.77	0.49	0.49	0.63	35%	34%
	International col.	50	22338	195471	8.75	0.93	0.90	0.90	0.97	26%	33%
Hospitals	Single institute	15	762	2291	3.01	0.88	0.25	0.25	0.29	50%	13%
	National col.	57	2877	10236	3.56	0.87	0.38	0.38	0.44	43%	19%
	International col.	28	1449	19906	13.74	1.24	1.30	1.30	1.05	22%	18%
Companies	Single institute	24	841	1831	2.18	0.80	0.23	0.23	0.29	56%	22%
	National col.	47	1661	4835	2.91	0.74	0.38	0.38	0.51	45%	32%
	International col.	29	1013	5095	5.03	0.94	0.68	0.68	0.72	36%	36%
Government	Single institute	21	396	921	2.33	0.72	0.23	0.23	0.31	52%	20%
	National col.	46	847	3050	3.60	0.80	0.42	0.42	0.53	39%	31%
	International col.	33	615	7078	11.51	1.09	1.05	1.05	0.96	20%	27%
Other	Single institute	25	172	141	0.82	0.46	0.14	0.14	0.31	69%	34%
	National col.	33	227	396	1.74	0.70	0.42	0.42	0.60	50%	36%
	International col.	43	299	1659	5.55	1.45	0.82	0.82	0.56	44%	39%
Universities	Single institute	29	14487	40179	2.77	0.75	0.34	0.34	0.46	50%	31%
	National col.	32	16371	59836	3.65	0.77	0.44	0.44	0.57	40%	33%
	International col.	39	19591	143583	7.33	0.95	0.90	0.90	0.95	31%	32%

Figure 9 presents the percentage of publications for the three types of collaboration together with the normalized-impact (CPP/FCSm). It can be seen how the production in international collaboration is normally close or above 1 (being thus classified as “Average” or “High”). It is remarkable that the production in international collaboration of the Hospitals is the only sector with a normalized impact well above (“High”) international level. Another important aspect is that in almost all the institutional sectors the production in international collaboration represents the largest share of publications (more than 30%), while this share is higher for

Universities and Research organizations, and lower for Hospitals and Companies. These results suggest that the research activities among universities and research organizations (mainly the Academy of Sciences) have a clear international orientation, while the production of Hospitals, Governmental institutions and especially companies, has a more national or local focus.

Figure 9 Main institutional sectors by type of collaboration



### 8.3.1.1 Evolution of production by collaboration

The evolution over time of production and impact for the different types of cooperation has been also studied for the main Czech institutional sectors. Table 10 and Figures 10 to 15 present the block analysis for the percentage of publications of the different institutional sectors. As it can be seen, there is a generalized decreasing pattern in the share of single publications for all the institutional sectors. Both national and international collaboration have remarkably increased for all the sectors. However, the increase of international collaboration is higher for Universities and Research organizations, while national collaboration has a major importance for Hospitals, Governmental institutions and Companies.

Table 10 Evolution of percentage of production by institutional sector and cooperation type – block analysis

Sector	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Universities	Single institute	41%	40%	37%	35%	34%	32%	32%	30%	29%	27%	26%	25%	25%	24%
	National col.	24%	26%	27%	28%	28%	29%	30%	32%	33%	33%	34%	34%	35%	36%
	International col.	34%	34%	36%	37%	38%	39%	38%	38%	39%	39%	40%	41%	40%	40%
Research organizations	Single institute	40%	38%	34%	31%	29%	28%	26%	24%	22%	21%	21%	20%	19%	18%
	National col.	16%	17%	18%	20%	20%	21%	22%	24%	26%	27%	28%	28%	29%	30%
	International col.	44%	45%	47%	49%	50%	51%	52%	52%	52%	52%	51%	52%	52%	51%
Hospitals	Single institute	32%	31%	29%	29%	27%	24%	21%	16%	16%	13%	12%	11%	10%	9%
	National col.	43%	45%	45%	46%	47%	47%	50%	55%	55%	57%	58%	59%	61%	62%
	International col.	25%	24%	26%	25%	27%	29%	29%	29%	29%	30%	30%	30%	29%	28%
Government	Single institute	40%	37%	32%	33%	31%	30%	29%	23%	20%	18%	15%	13%	12%	11%
	National col.	29%	31%	32%	34%	36%	35%	42%	47%	48%	52%	53%	52%	53%	54%
	International col.	31%	31%	36%	34%	33%	35%	29%	30%	32%	31%	33%	35%	34%	35%
Companies	Single institute	48%	47%	45%	43%	37%	33%	30%	24%	22%	17%	14%	12%	13%	12%
	National col.	31%	31%	32%	35%	40%	45%	48%	50%	49%	49%	49%	50%	52%	55%
	International col.	21%	22%	23%	22%	23%	22%	23%	26%	30%	34%	37%	37%	35%	33%
Other	Single institute	60%	54%	51%	42%	37%	35%	30%	32%	27%	24%	20%	14%	14%	16%
	National col.	12%	19%	22%	22%	27%	25%	29%	29%	30%	31%	34%	34%	37%	38%
	International col.	28%	27%	28%	36%	36%	40%	41%	39%	44%	44%	46%	52%	49%	46%
Universities	Single institute	41%	40%	37%	35%	34%	32%	32%	30%	29%	27%	26%	25%	25%	24%
	National col.	24%	26%	27%	28%	28%	29%	30%	32%	33%	33%	34%	34%	35%	36%
	International col.	34%	34%	36%	37%	38%	39%	38%	38%	39%	39%	40%	41%	40%	40%

Figure 10 Evolution of the percentage of production by collaboration by Universities – block analysis

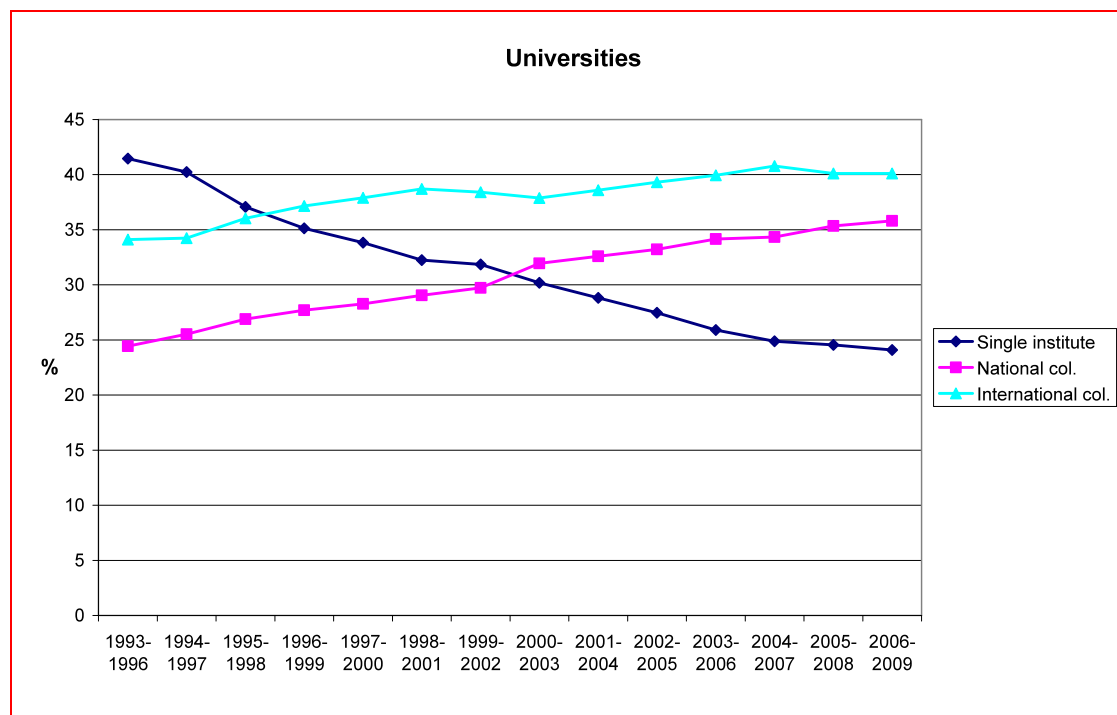


Figure 11 Evolution of the percentage of production by collaboration by Research organizations – block analysis

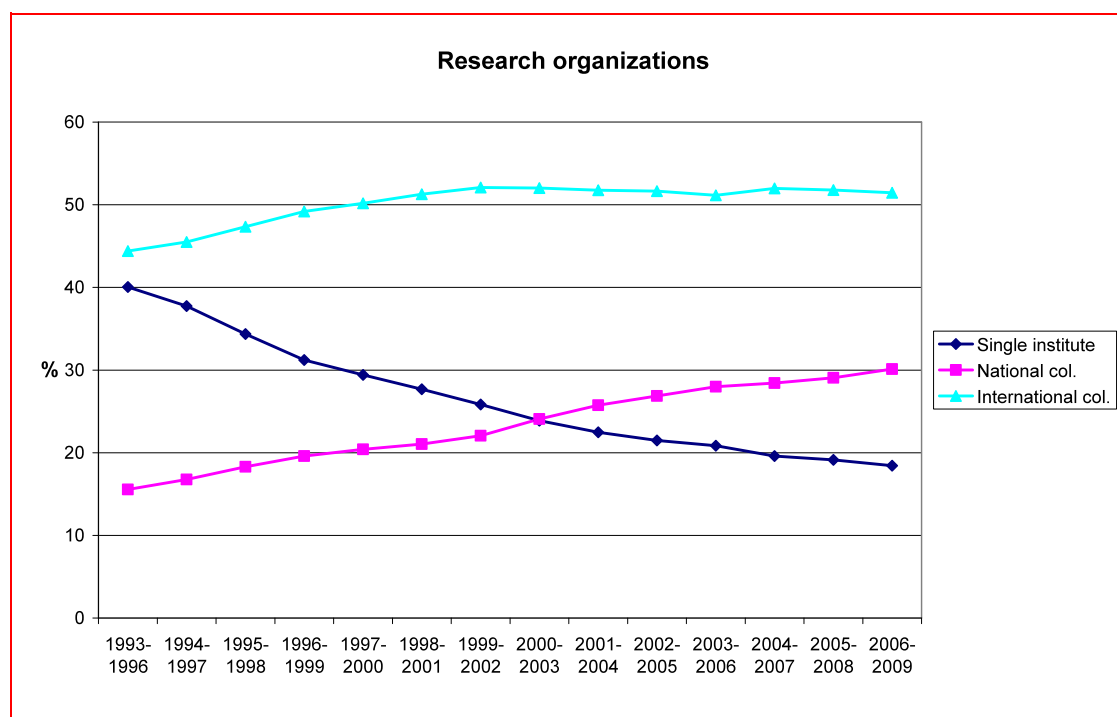


Figure 12 Evolution of the percentage of production by collaboration by Hospitals – block analysis

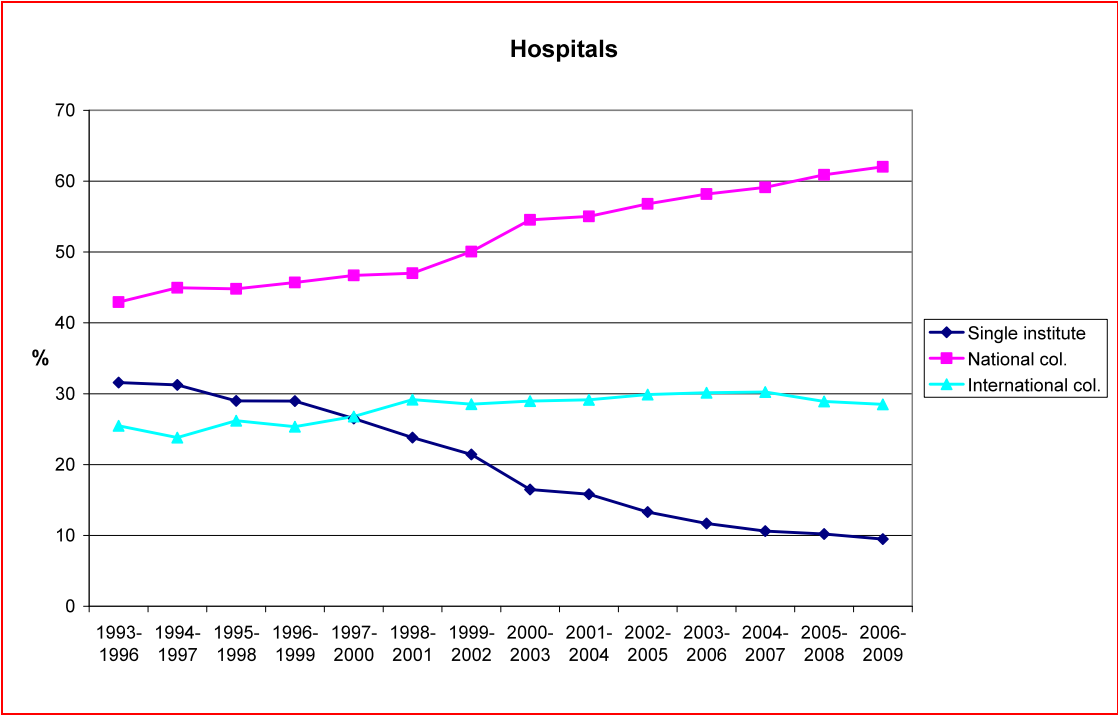


Figure 13 Evolution of the percentage of production by collaboration by Government – block analysis

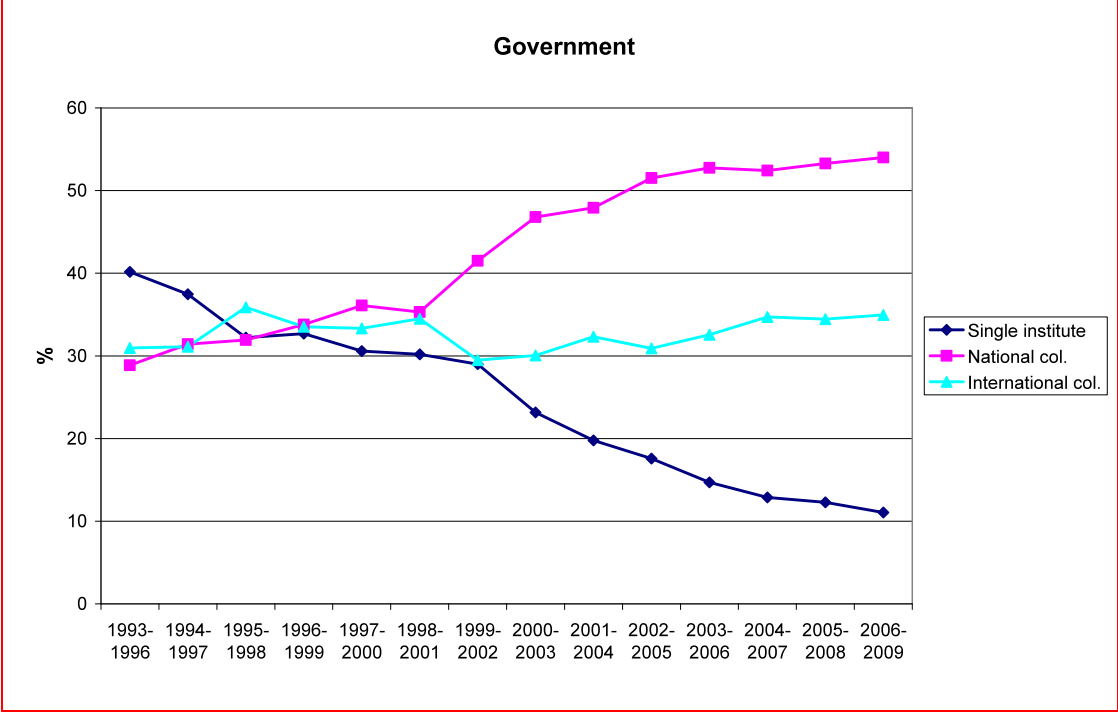


Figure 14 Evolution of the percentage of production by collaboration by Companies – block analysis

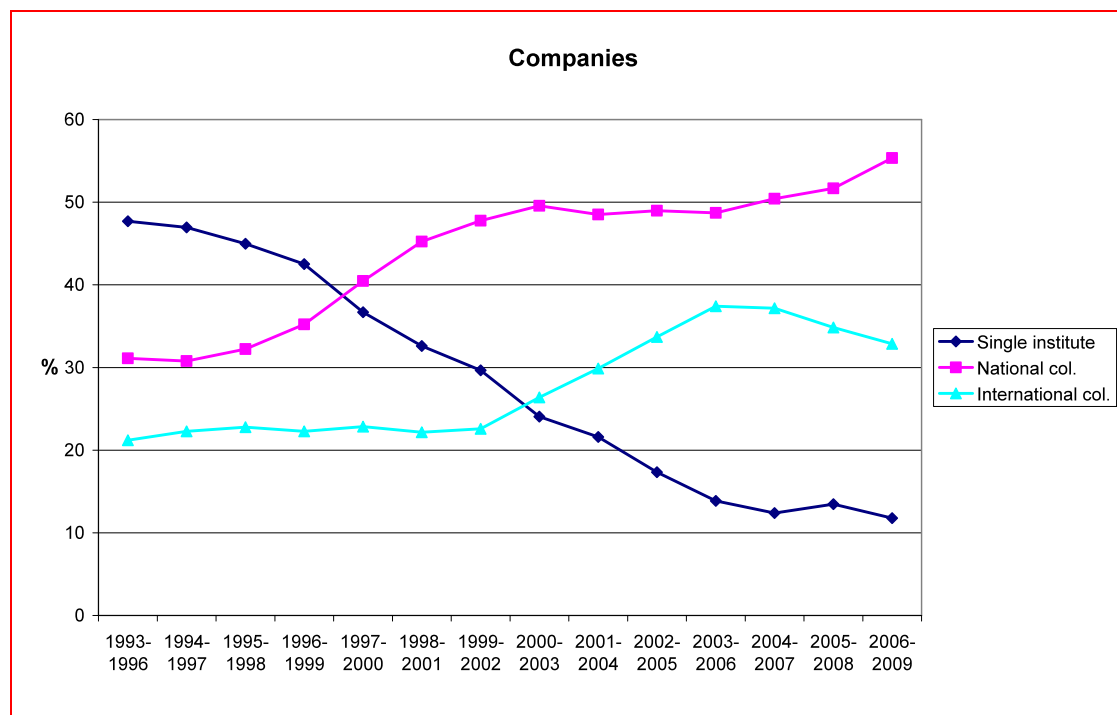
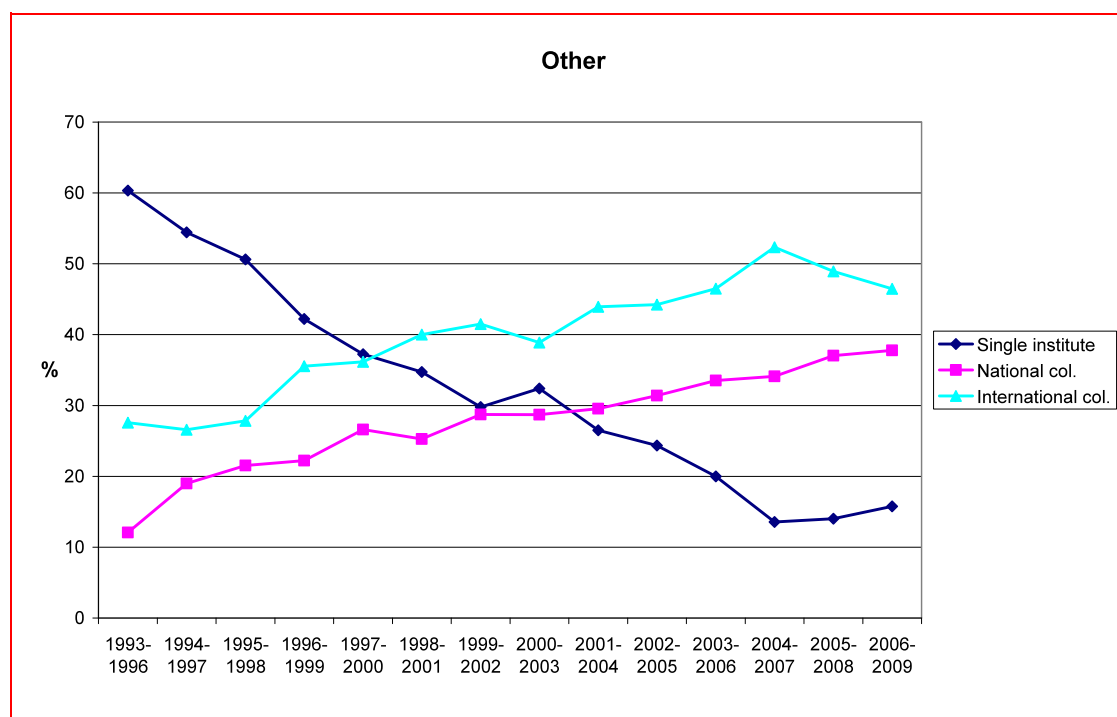


Figure 15 Evolution of the percentage of production by collaboration by Other – block analysis



An interesting conclusion of these figures is that we observe a development in which the ties of Czech scientific organizations, both internally in the Czech Republic and



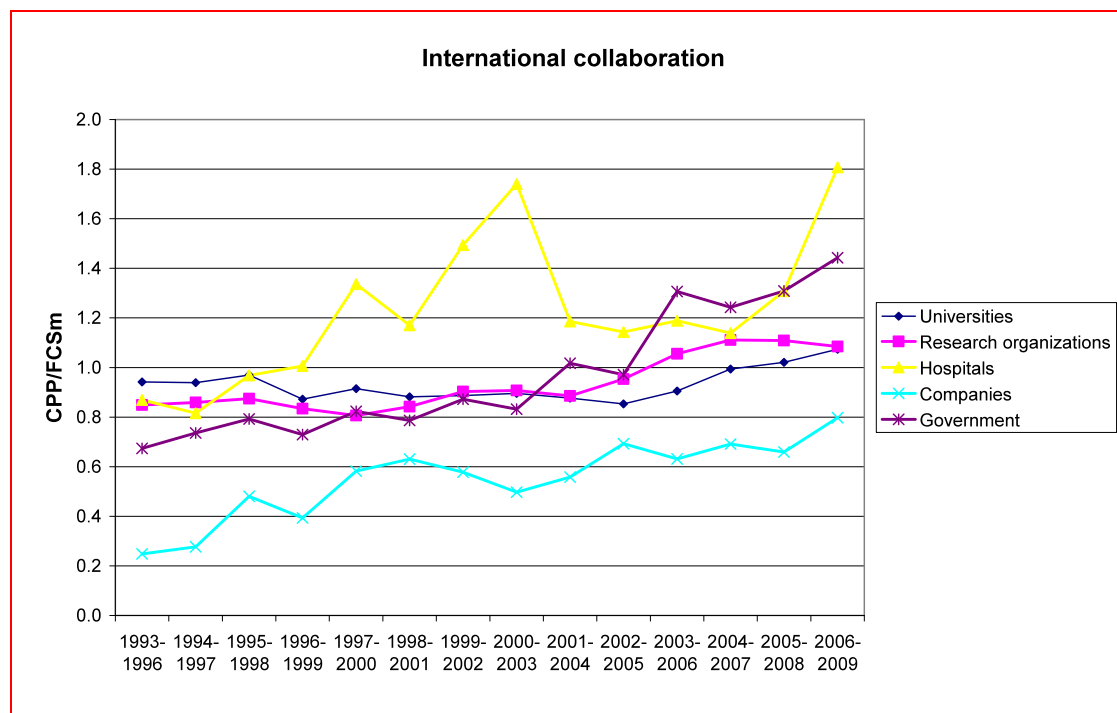
internationally has grown over time, while the most “isolated” research (expressed by single address papers) is left.

In Table 11 and Figure 16 the evolution of the field-normalized impact (CPP/FCSm) of the different Czech institutional sectors by cooperation type is presented. The highest impact is normally found for the international collaboration, presenting an increasing pattern during the period of analysis.

Table 11 Evolution of CPP/FCSm by institutional sectors and cooperation type – block analysis

Sector	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Universities	Single institute	0.25	0.25	0.25	0.23	0.25	0.27	0.31	0.35	0.39	0.43	0.43	0.41	0.43	0.46
	National col.	0.25	0.25	0.25	0.28	0.32	0.36	0.38	0.41	0.43	0.46	0.48	0.49	0.51	0.54
	International col.	0.94	0.94	0.97	0.87	0.91	0.88	0.89	0.90	0.88	0.85	0.91	0.99	1.02	1.07
Research organizations	Single institute	0.38	0.39	0.37	0.35	0.40	0.44	0.50	0.46	0.47	0.54	0.56	0.57	0.61	0.63
	National col.	0.24	0.27	0.30	0.32	0.36	0.39	0.44	0.47	0.47	0.51	0.54	0.55	0.56	0.61
	International col.	0.85	0.86	0.87	0.83	0.81	0.84	0.90	0.91	0.89	0.95	1.06	1.11	1.11	1.08
Hospitals	Single institute	0.31	0.23	0.10	0.14	0.18	0.24	0.22	0.26	0.27	0.29	0.42	0.39	0.33	0.46
	National col.	0.18	0.21	0.21	0.20	0.25	0.30	0.28	0.34	0.38	0.41	0.41	0.42	0.45	0.50
	International col.	0.87	0.82	0.97	1.01	1.34	1.17	1.49	1.74	1.19	1.14	1.19	1.14	1.31	1.81
Government	Single institute	0.30	0.27	0.21	0.19	0.18	0.24	0.24	0.25	0.38	0.44	0.35	0.25	0.25	0.32
	National col.	0.18	0.22	0.24	0.26	0.22	0.28	0.29	0.36	0.40	0.46	0.46	0.43	0.44	0.44
	International col.	0.25	0.28	0.48	0.39	0.58	0.63	0.58	0.50	0.56	0.69	0.63	0.69	0.66	0.80
Companies	Single institute	0.38	0.37	0.37	0.15	0.19	0.29	0.36	0.23	0.29	0.32	0.37	0.15	0.11	0.20
	National col.	0.37	0.36	0.24	0.27	0.30	0.48	0.45	0.50	0.42	0.45	0.44	0.43	0.47	0.50
	International col.	0.67	0.74	0.79	0.73	0.82	0.79	0.87	0.83	1.02	0.97	1.31	1.24	1.31	1.44
Other	Single institute	0.00	0.02	0.10	0.12	0.17	0.14	0.10	0.13	0.31	0.23	0.10	0.17	0.28	0.18
	National col.	0.69	0.55	0.37	0.24	0.30	0.33	0.11	0.22	0.28	0.40	0.49	0.59	0.51	0.55
	International col.	0.67	0.55	0.59	0.45	0.42	0.34	0.16	0.07	0.30	0.55	1.43	2.53	3.76	0.62
Universities	Single institute	0.25	0.25	0.25	0.23	0.25	0.27	0.31	0.35	0.39	0.43	0.43	0.41	0.43	0.46
	National col.	0.25	0.25	0.25	0.28	0.32	0.36	0.38	0.41	0.43	0.46	0.48	0.49	0.51	0.54
	International col.	0.94	0.94	0.97	0.87	0.91	0.88	0.89	0.90	0.88	0.85	0.91	0.99	1.02	1.07

Figure 16 Evolution of CPP/FCSm of institutional sectors by International collaboration – block analysis



### 8.3.2 Main institutions

The collaboration patterns of the main research institutions in the Czech Republic have also been studied. Table 12 and Figure 12 present the bibliometric indicators for the main Czech institutions (in Appendix F the whole list for the first 100 institutions is presented). International collaboration gathers the highest share of publications for most of the institutions. However, several exceptions can be mentioned such as the Palacky University in Olomouc, the University of South Bohemia in Ceske Budejovice, or the University of Pardubice among others, where the percentage of publications in national collaboration is higher than for the other cooperation types.

Table 12 also shows how in all the cases presented, the normalized impact (CPP/FCSm) of production international collaboration is higher than the other types of cooperation.

Table 12 Main Czech scientific institutions by cooperation types

Institute	Type coop.	%	P	C-sc	CPP	CPP/JCSm	CPP/FCSm	JCSm/FCSm	%nc	%sc
Academy of Sciences (global)	Single institute	24	9255	48836	5.28	0.74	0.48	0.65	35%	31%
	National col.	23	9136	41343	4.53	0.76	0.50	0.65	35%	35%
	International col.	53	20557	169566	8.25	0.89	0.86	0.96	26%	35%
Charles University in Prague	Single institute	20	4396	13703	3.12	0.70	0.35	0.50	46%	30%
	National col.	34	7483	29405	3.93	0.75	0.42	0.56	37%	32%
	International col.	45	9896	86471	8.74	0.96	0.96	1.00	28%	32%
Institute of Physics ASCR	Single institute	12	798	2968	3.72	0.62	0.44	0.71	42%	39%
	National col.	14	899	2509	2.79	0.59	0.42	0.70	46%	42%

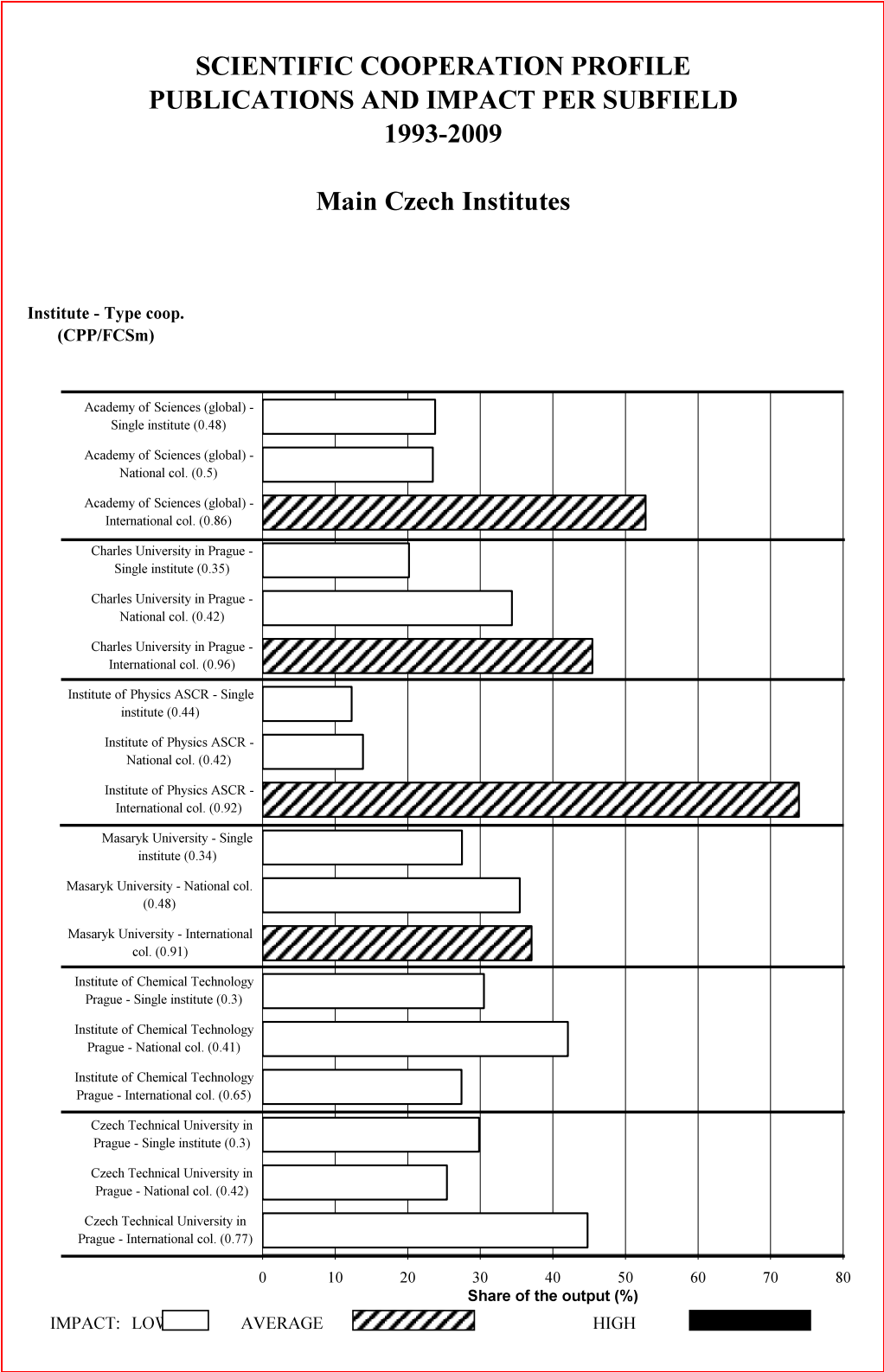
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Institute	Type coop.	%	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
	International col.	74	4805	33520	6.98	0.89	0.92	1.04	30%	40%
Masaryk University	Single institute	27	1676	5183	3.09	0.75	0.34	0.46	47%	28%
	National col.	35	2163	8533	3.94	0.80	0.48	0.60	35%	36%
	International col.	37	2262	17212	7.61	0.99	0.91	0.92	30%	30%
Institute of Chemical Technology Prague	Single institute	31	1368	5347	3.91	0.78	0.30	0.38	40%	29%
	National col.	42	1886	7294	3.87	0.77	0.41	0.53	39%	38%
	International col.	27	1229	7372	6.00	0.79	0.65	0.82	29%	32%
Czech Technical University in Prague	Single institute	30	1083	1588	1.47	0.55	0.30	0.55	63%	33%
	National col.	25	923	2162	2.34	0.70	0.42	0.60	52%	33%
	International col.	45	1626	6742	4.15	0.97	0.77	0.79	41%	38%
Palacky University Olomouc	Single institute	27	916	3204	3.50	0.83	0.45	0.54	51%	29%
	National col.	38	1258	4688	3.73	0.92	0.47	0.51	41%	29%
	International col.	35	1167	8921	7.64	0.96	0.98	1.02	33%	28%
J. Heyrovsky Institute of Physical Chemistry ASCR	Single institute	19	519	5095	9.82	0.82	0.65	0.79	23%	26%
	National col.	21	567	4774	8.42	1.02	0.83	0.81	27%	31%
	International col.	60	1638	19889	12.14	1.00	1.16	1.16	19%	33%
Biology Centre ASCR	Single institute	22	587	3108	5.29	0.83	0.49	0.59	26%	34%
	National col.	30	824	4493	5.45	0.84	0.62	0.75	27%	31%
	International col.	48	1294	9888	7.64	0.91	0.81	0.89	24%	34%
University of South Bohemia in Ceske Budejovice	Single institute	15	397	1429	3.60	0.84	0.51	0.61	49%	25%
	National col.	45	1213	5893	4.86	0.87	0.68	0.78	33%	29%
	International col.	40	1088	6880	6.32	0.93	0.91	0.97	29%	33%
Institute of Organic Chemistry and Biochemistry ASCR	Single institute	21	551	2829	5.13	0.82	0.37	0.45	24%	40%
	National col.	37	969	7033	7.26	0.98	0.70	0.71	28%	35%
	International col.	43	1132	10138	8.96	0.88	0.83	0.94	22%	36%
Institute of Macromolecular Chemistry ASCR	Single institute	25	540	3638	6.74	0.75	0.60	0.80	26%	28%
	National col.	29	628	3025	4.82	0.70	0.53	0.77	32%	39%
	International col.	45	969	9097	9.39	0.97	1.04	1.07	22%	31%
Institute of Microbiology ASCR	Single institute	22	451	2797	6.20	0.70	0.39	0.56	24%	24%
	National col.	32	672	3314	4.93	0.66	0.40	0.60	29%	33%
	International col.	46	956	9220	9.64	0.81	0.66	0.81	17%	31%
University of Pardubice	Single institute	29	602	2210	3.67	0.77	0.39	0.51	41%	35%
	National col.	38	789	2848	3.61	0.75	0.48	0.64	40%	41%
	International col.	33	670	4558	6.80	1.02	0.90	0.88	27%	34%
Institute of Physiology ASCR	Single institute	22	455	3672	8.07	0.54	0.41	0.76	22%	29%
	National col.	31	646	2670	4.13	0.55	0.33	0.59	32%	39%
	International col.	47	959	10980	11.45	0.71	0.64	0.91	19%	31%
Nuclear Physics Institute ASCR	Single institute	14	258	921	3.57	0.90	0.42	0.46	43%	41%
	National col.	19	363	1069	2.94	0.63	0.38	0.61	42%	43%
	International col.	67	1260	8418	6.68	1.01	0.92	0.92	34%	41%
	Single institute	40	720	1046	1.45	0.54	0.25	0.46	61%	37%

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Institute	Type coop.	%	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Brno University of Technology	Single institute	40	720	1046	1.45	0.54	0.25	0.46	61%	37%
	National col.	31	569	1304	2.29	0.58	0.33	0.57	48%	38%
	International col.	29	523	2071	3.96	0.82	0.65	0.80	43%	34%
University of Veterinary and Pharmaceutical Sciences Brno	Single institute	26	371	715	1.93	0.88	0.35	0.40	42%	33%
	National col.	54	776	1818	2.34	0.97	0.54	0.56	44%	37%
	International col.	21	298	933	3.13	0.86	0.55	0.64	44%	36%
Mendel University in Brno	Single institute	40	539	1155	2.14	0.91	0.29	0.32	47%	27%
	National col.	41	553	1355	2.45	0.76	0.42	0.56	44%	52%
	International col.	19	263	1570	5.97	1.07	0.88	0.83	31%	37%
Czech University of Life Sciences Prague	Single institute	47	606	1016	1.68	1.12	0.29	0.26	52%	37%
	National col.	38	486	1320	2.72	0.97	0.50	0.52	47%	32%
	International col.	15	186	755	4.06	0.90	0.73	0.81	38%	34%
Institute of Chemical Process Fundamentals ASCR	Single institute	31	387	2085	5.39	0.73	0.48	0.66	32%	33%
	National col.	26	324	1343	4.15	0.65	0.52	0.80	31%	40%
	International col.	44	551	3030	5.50	0.65	0.66	1.03	27%	41%
Institute of Molecular Genetics ASCR	Single institute	18	215	1444	6.72	0.58	0.32	0.55	31%	30%
	National col.	30	349	2029	5.81	0.62	0.38	0.61	24%	35%
	International col.	52	602	10109	16.79	0.85	0.92	1.08	14%	26%
Institute of Biophysics ASCR	Single institute	22	252	3210	12.74	0.98	0.84	0.85	21%	31%
	National col.	33	369	2763	7.49	0.84	0.64	0.76	24%	41%
	International col.	45	504	7857	15.59	1.07	1.15	1.07	15%	35%
VSB-Technical University of Ostrava	Single institute	36	376	527	1.40	0.72	0.29	0.40	64%	39%
	National col.	32	331	741	2.24	0.87	0.42	0.48	54%	34%
	International col.	32	334	1178	3.53	0.99	0.82	0.83	50%	32%
Institute of Mathematics ASCR	Single institute	29	305	912	2.99	1.05	0.79	0.76	47%	29%
	National col.	13	137	326	2.38	0.88	0.64	0.73	51%	32%
	International col.	57	596	2045	3.43	1.20	1.08	0.90	42%	35%

Figure 17 Main Czech scientific institutions by type of collaboration



### 8.3.2.1 Evolution of production by collaboration

The evolution of the production has been studied in Table 13 with the evolution of the percentages of publications by types of cooperation for the main Czech scientific institutions (full list in Appendix G) and Figures 18-23 (with the graphical evolution for the 5 main institutions and the Academy of Sciences –global-).

The pattern of decreasing the share of single institute publications is the rule for all the institutions presented. The publications in international and national collaboration present a clear increasing pattern during the whole period, although the role of international collaborative publications is more important in the Academy of Sciences and its institutes as well as for some of the main universities (Charles University in Prague or the Czech Technical University in Prague). Some other institutions show a higher share of publications with national collaboration. This is the case for example of Masaryk University, and the above mentioned universities of Palacky University in Olomouc, the University of South Bohemia in Ceske Budejovice or the University of Pardubice.

Table 13 Evolution of the percentage of production by main Czech scientific institutions and cooperation type – block analysis

Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Academy of Sciences (global)	Single institute	38%	36%	32%	29%	28%	26%	25%	23%	21%	21%	20%	19%	18%	18%
	National col.	15%	16%	18%	19%	20%	20%	21%	23%	24%	25%	26%	27%	27%	28%
	International col.	47%	48%	50%	52%	53%	54%	54%	54%	54%	54%	53%	54%	54%	54%
Charles University in Prague	Single institute	30%	29%	27%	26%	25%	24%	23%	21%	20%	19%	18%	18%	17%	16%
	National col.	27%	28%	28%	29%	29%	30%	31%	34%	35%	36%	36%	36%	38%	38%
	International col.	43%	43%	45%	45%	46%	46%	46%	45%	45%	46%	46%	46%	46%	46%
Institute of Physics ASCR	Single institute	21%	19%	16%	13%	12%	11%	12%	12%	12%	12%	12%	11%	9%	9%
	National col.	11%	12%	13%	13%	13%	12%	11%	13%	13%	14%	15%	14%	16%	16%
	International col.	68%	69%	72%	74%	76%	77%	77%	75%	75%	74%	73%	75%	75%	74%
Masaryk University	Single institute	40%	39%	38%	36%	36%	33%	31%	29%	27%	27%	26%	25%	24%	22%
	National col.	23%	25%	27%	27%	28%	29%	32%	35%	37%	37%	37%	38%	39%	41%
	International col.	37%	35%	35%	37%	36%	39%	37%	37%	37%	36%	37%	37%	37%	37%
Institute of Chemical Technology Prague	Single institute	39%	39%	37%	37%	37%	36%	34%	31%	30%	29%	29%	28%	25%	24%
	National col.	35%	36%	38%	39%	40%	41%	41%	44%	42%	41%	43%	43%	46%	47%
	International col.	27%	26%	25%	24%	24%	23%	26%	26%	28%	30%	28%	30%	29%	29%
Czech Technical University in Prague	Single institute	41%	39%	33%	30%	28%	28%	31%	35%	34%	32%	31%	28%	27%	27%
	National col.	27%	29%	30%	29%	27%	24%	24%	23%	24%	23%	24%	24%	25%	26%
	International col.	32%	32%	38%	42%	45%	48%	45%	42%	42%	44%	46%	48%	48%	47%
Palacky University Olomouc	Single institute	48%	43%	41%	39%	38%	35%	34%	31%	27%	26%	24%	22%	22%	22%
	National col.	26%	28%	31%	31%	30%	32%	30%	35%	37%	39%	41%	41%	42%	41%
	International col.	26%	29%	27%	30%	32%	32%	36%	34%	35%	35%	35%	37%	37%	37%
	Single institute	28%	27%	26%	25%	24%	22%	19%	18%	16%	14%	16%	13%	13%	14%

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<b>Institute</b>	<b>Type coop.</b>	<b>1993-1996</b>	<b>1994-1997</b>	<b>1995-1998</b>	<b>1996-1999</b>	<b>1997-2000</b>	<b>1998-2001</b>	<b>1999-2002</b>	<b>2000-2003</b>	<b>2001-2004</b>	<b>2002-2005</b>	<b>2003-2006</b>	<b>2004-2007</b>	<b>2005-2008</b>	<b>2006-2009</b>
J. Heyrovsky Institute of Physical Chemistry ASCR	Single institute	28%	27%	26%	25%	24%	22%	19%	18%	16%	14%	16%	13%	13%	14%
	National col.	14%	15%	16%	15%	17%	18%	19%	23%	26%	26%	26%	24%	23%	24%
	International col.	58%	57%	58%	60%	59%	60%	62%	59%	58%	60%	59%	63%	64%	63%
Biology Centre ASCR	Single institute	46%	41%	35%	32%	30%	28%	26%	23%	19%	17%	14%	11%	10%	10%
	National col.	14%	16%	19%	22%	25%	29%	29%	31%	34%	35%	39%	40%	40%	36%
	International col.	40%	42%	46%	46%	44%	44%	45%	46%	47%	48%	48%	49%	50%	54%
University of South Bohemia in Ceske Budejovice	Single institute	50%	42%	33%	29%	22%	20%	18%	15%	12%	10%	9%	9%	10%	12%
	National col.	31%	36%	38%	41%	43%	44%	46%	48%	49%	49%	51%	49%	48%	44%
	International col.	19%	22%	29%	30%	34%	35%	36%	38%	39%	40%	39%	42%	43%	44%
Institute of Organic Chemistry and Biochemistry ASCR	Single institute	37%	35%	33%	31%	28%	26%	21%	19%	16%	16%	18%	17%	16%	15%
	National col.	23%	26%	29%	33%	37%	39%	39%	40%	42%	40%	41%	39%	38%	38%
	International col.	40%	39%	38%	36%	34%	35%	40%	41%	42%	44%	41%	44%	46%	47%
Institute of Macromolecular Chemistry ASCR	Single institute	43%	41%	36%	33%	30%	25%	22%	20%	21%	22%	22%	22%	20%	18%
	National col.	16%	16%	19%	21%	23%	27%	28%	29%	32%	31%	34%	35%	37%	39%
	International col.	42%	43%	44%	45%	48%	49%	50%	50%	48%	47%	44%	43%	44%	43%
Institute of Microbiology ASCR	Single institute	33%	30%	28%	23%	20%	21%	20%	20%	20%	17%	18%	19%	19%	20%
	National col.	22%	25%	27%	29%	31%	29%	31%	32%	31%	34%	34%	33%	36%	38%
	International col.	45%	45%	46%	48%	48%	50%	49%	47%	48%	48%	48%	47%	45%	42%
University of Pardubice	Single institute	44%	45%	39%	35%	34%	28%	28%	29%	26%	24%	23%	22%	24%	26%
	National col.	29%	30%	31%	29%	31%	34%	36%	37%	39%	39%	41%	44%	43%	43%
	International col.	27%	25%	31%	36%	34%	38%	36%	34%	35%	37%	36%	34%	33%	31%
Institute of Physiology ASCR	Single institute	31%	30%	29%	27%	30%	26%	23%	20%	16%	18%	18%	20%	17%	16%
	National col.	22%	23%	23%	24%	22%	21%	27%	31%	35%	40%	38%	38%	39%	39%
	International col.	48%	46%	47%	49%	48%	53%	51%	50%	49%	42%	44%	43%	44%	45%
Nuclear Physics Institute ASCR	Single institute	18%	19%	17%	16%	16%	14%	12%	12%	12%	12%	13%	12%	12%	12%
	National col.	21%	21%	22%	19%	17%	15%	15%	16%	15%	14%	17%	20%	22%	26%
	International col.	62%	60%	61%	65%	68%	70%	73%	72%	73%	74%	69%	68%	66%	63%
Brno University of Technology	Single institute	48%	47%	42%	42%	39%	36%	37%	37%	39%	42%	40%	39%	40%	38%
	National col.	25%	29%	33%	33%	33%	33%	34%	33%	32%	31%	28%	30%	30%	32%
	International col.	27%	25%	26%	25%	28%	31%	29%	31%	28%	27%	32%	30%	31%	30%
University of Veterinary and Pharmaceutical Sciences Brno	Single institute	61%	54%	40%	29%	29%	31%	35%	31%	31%	27%	22%	21%	19%	18%
	National col.	27%	33%	43%	50%	51%	49%	47%	55%	57%	58%	60%	57%	56%	57%
	International col.	13%	13%	16%	21%	20%	20%	17%	14%	12%	16%	18%	22%	25%	25%
Mendel University in Brno	Single institute	76%	72%	63%	58%	50%	53%	50%	48%	44%	36%	31%	26%	28%	27%
	National col.	11%	13%	20%	27%	34%	35%	35%	36%	37%	42%	46%	50%	50%	51%
	International col.	13%	15%	16%	16%	16%	13%	15%	17%	19%	22%	23%	24%	22%	22%
	Single institute	70%	69%	66%	65%	62%	60%	60%	57%	52%	48%	40%	34%	38%	36%

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Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Czech University of Life Sciences Prague	Single institute	70%	69%	66%	65%	62%	60%	60%	57%	52%	48%	40%	34%	38%	36%
	National col.	15%	17%	20%	22%	25%	27%	28%	31%	35%	39%	43%	49%	47%	48%
	International col.	15%	14%	14%	13%	13%	13%	11%	12%	13%	13%	17%	17%	14%	16%
Nuclear Physics Institute ASCR	Single institute	18%	19%	17%	16%	16%	14%	12%	12%	12%	12%	13%	12%	12%	12%
	National col.	21%	21%	22%	19%	17%	15%	15%	16%	15%	14%	17%	20%	22%	26%
	International col.	62%	60%	61%	65%	68%	70%	73%	72%	73%	74%	69%	68%	66%	63%
Institute of Chemical Process Fundamentals ASCR	Single institute	51%	47%	38%	34%	32%	30%	29%	28%	29%	29%	27%	25%	24%	22%
	National col.	16%	17%	21%	23%	23%	24%	24%	27%	28%	28%	28%	27%	28%	31%
	International col.	33%	36%	41%	44%	45%	46%	47%	46%	43%	43%	45%	48%	48%	48%
Institute of Molecular Genetics ASCR	Single institute	24%	24%	25%	24%	22%	21%	21%	19%	19%	18%	17%	15%	14%	13%
	National col.	23%	23%	26%	27%	29%	31%	30%	30%	31%	32%	33%	35%	32%	32%
	International col.	53%	53%	49%	48%	48%	48%	49%	51%	50%	50%	50%	50%	54%	55%
Institute of Biophysics ASCR	Single institute	35%	32%	31%	28%	24%	24%	23%	20%	21%	18%	18%	19%	21%	21%
	National col.	18%	20%	25%	28%	34%	35%	37%	34%	34%	32%	34%	34%	35%	36%
	International col.	47%	47%	44%	43%	42%	40%	40%	45%	46%	50%	49%	46%	45%	42%
VSB-Technical University of Ostrava	Single institute	48%	47%	41%	40%	39%	42%	44%	40%	40%	36%	33%	33%	32%	32%
	National col.	25%	27%	26%	27%	28%	27%	28%	32%	33%	34%	35%	32%	32%	34%
	International col.	27%	27%	32%	34%	33%	31%	28%	28%	28%	30%	33%	35%	36%	34%
Institute of Mathematics ASCR	Single institute	39%	37%	37%	37%	40%	40%	39%	33%	28%	21%	21%	21%	20%	25%
	National col.	11%	13%	13%	16%	14%	13%	11%	9%	12%	12%	14%	14%	15%	14%
	International col.	50%	50%	50%	48%	46%	47%	50%	57%	60%	67%	65%	65%	65%	61%
Astronomical Institute ASCR	Single institute	39%	39%	32%	32%	28%	24%	26%	23%	21%	21%	18%	17%	18%	17%
	National col.	8%	7%	7%	5%	5%	6%	6%	7%	6%	6%	6%	6%	8%	9%
	International col.	53%	53%	61%	63%	66%	70%	68%	70%	74%	74%	76%	77%	74%	73%



Figure 18 Evolution of the percentage of production by collaboration by Academy of Sciences (global) – block analysis

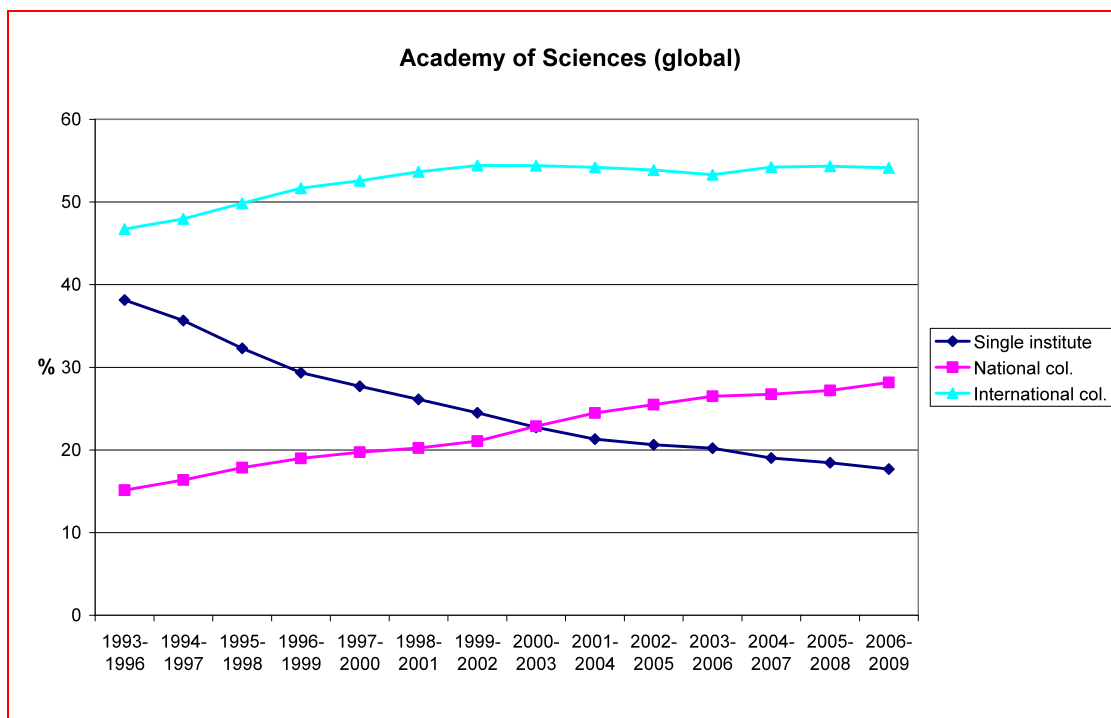


Figure 19 Evolution of the percentage of production by collaboration by Charles University in Prague – block analysis

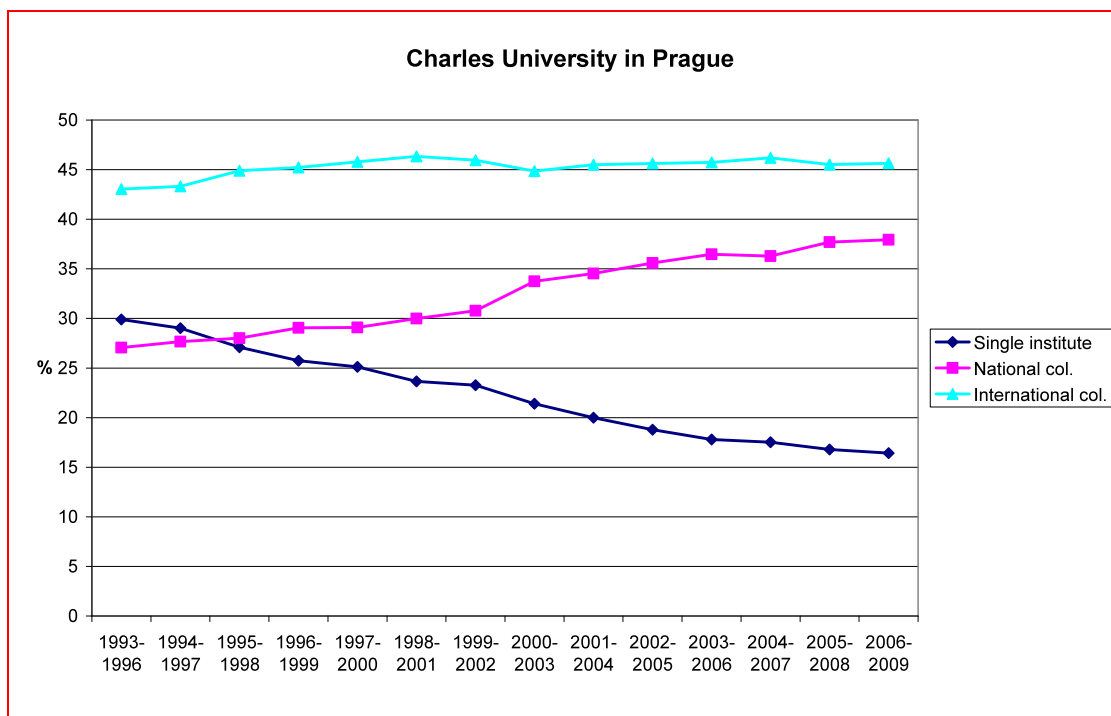


Figure 20 Evolution of the percentage of production by collaboration by Institute of Physics ASCR – block analysis

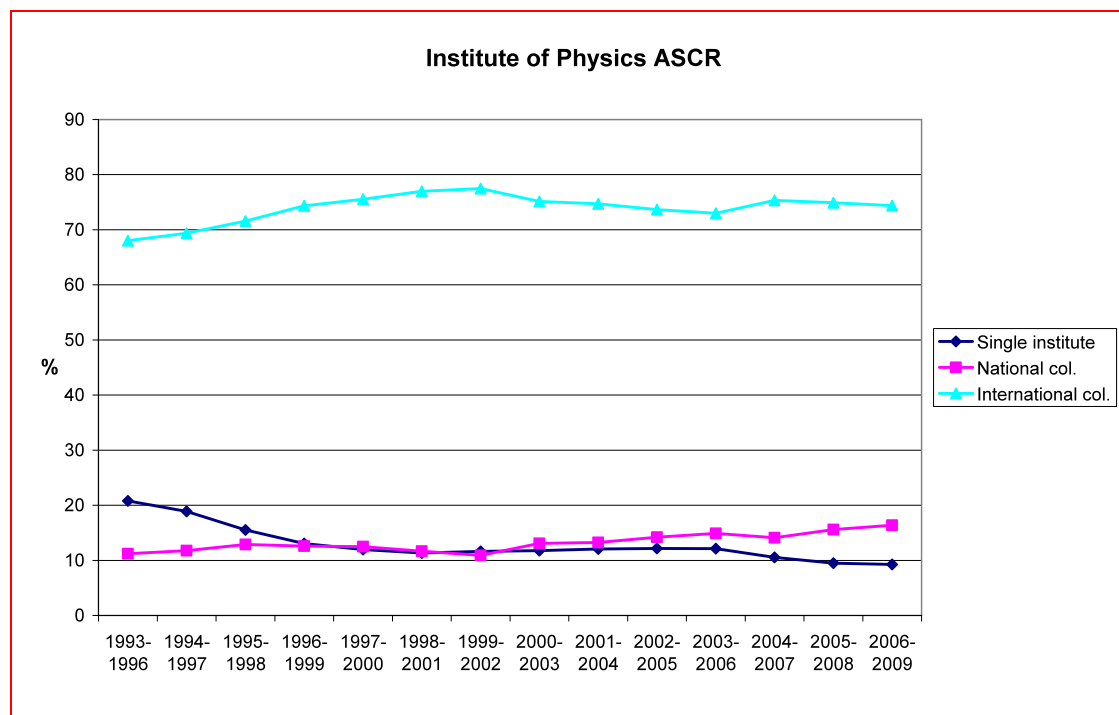


Figure 21 Evolution of the percentage of production by collaboration by Masaryk University– block analysis

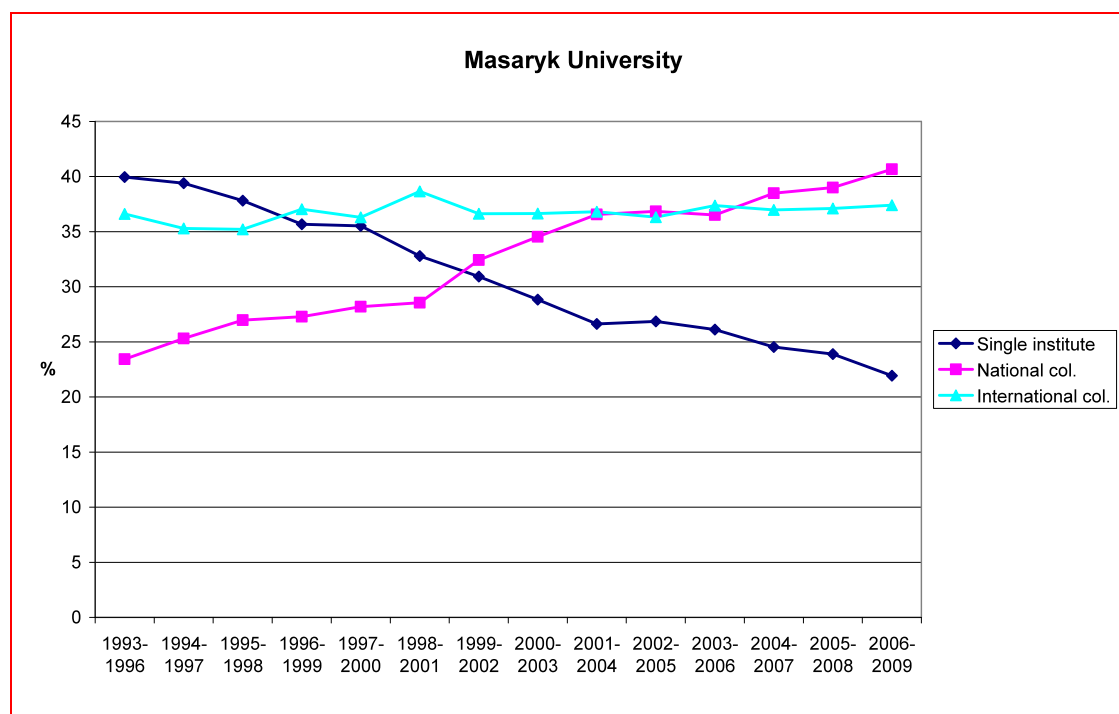


Figure 22 Evolution of the percentage of production by collaboration by Institute of Chemical Technology Prague– block analysis

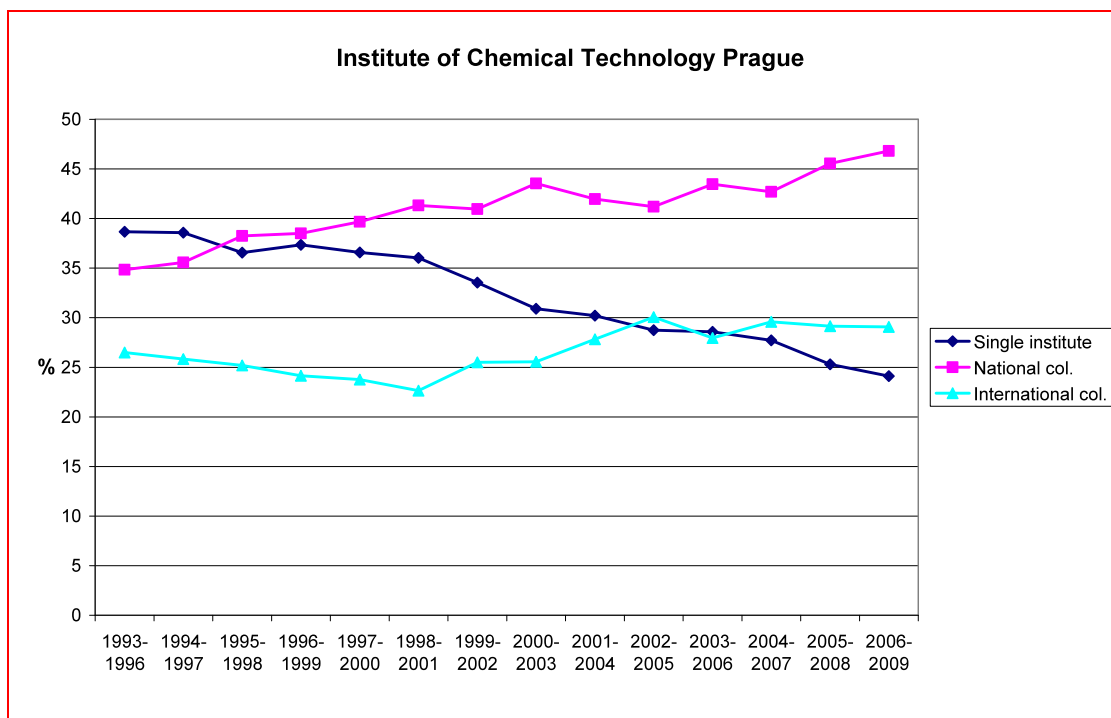
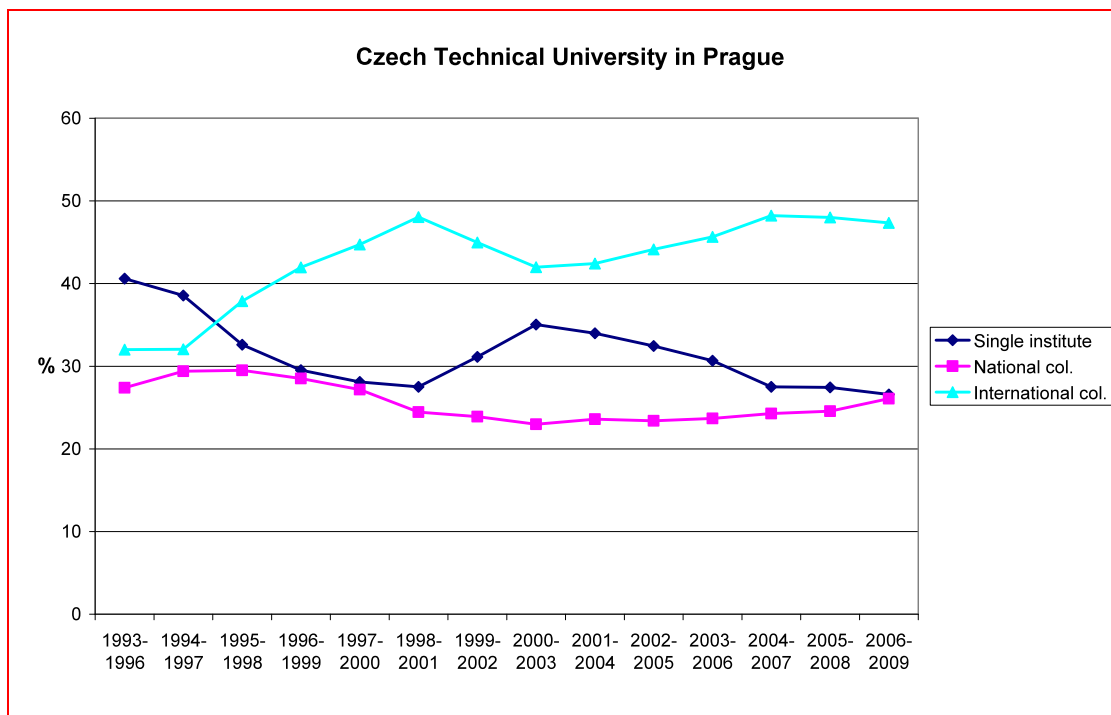


Figure 23 Evolution of the percentage of production by collaboration by Czech Technical University in Prague– block analysis



The analysis of these figures (18-23) also shows that some universities and institutes were already well linked into the international R&D networks as their share of

international collaboration does not evolve very much over time while since the beginning of the period was already very high (these are the cases of the Academy of Sciences –global-, the Charles University in Prague or the Institute of Physics of the Academy of Sciences). On the other hand, other institutions show a remarkable growth in the share of international collaboration during the period of analysis, like for example the Czech Technical University in Prague.

### 8.3.2.2 Evolution of impact by collaboration

Table 14 presents the evolution of the CPP/FCSm values for the main Czech research institutions considering the different types of collaboration studied (full list in Appendix H). It can be observed how the relative impact of publications in international collaboration is higher than the impact for the other cooperation types, being the lowest impact for publications without collaboration.

Figure 24 presents the evolution of the CPP/FCSm for the publications in international collaboration of the five main institutions (plus the Academy of Sciences –global-). In general terms all the institutions have an increasing pattern in the evolution of the impact of their publications in international collaboration. It is worth mentioning the Institute of Physics of the Academy of Sciences with a somehow variable evolution of the impact over time, and the Czech Technical University in Prague with a very strong increase in the impact of papers in international collaboration during the last years of the period.

Table 14 Evolution of CPP/FCSm by main scientific institutions and cooperation type – block analysis

Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Academy of Sciences (global)	Single institute	0.38	0.39	0.38	0.36	0.43	0.46	0.52	0.49	0.49	0.56	0.57	0.58	0.63	0.66
	National col.	0.26	0.28	0.31	0.32	0.35	0.40	0.47	0.49	0.49	0.52	0.55	0.56	0.58	0.61
	International col.	0.83	0.85	0.88	0.84	0.78	0.81	0.86	0.87	0.85	0.89	0.98	1.06	1.05	0.99
Charles University in Prague	Single institute	0.27	0.29	0.27	0.25	0.26	0.27	0.33	0.38	0.41	0.43	0.43	0.39	0.45	0.51
	National col.	0.24	0.24	0.23	0.25	0.28	0.32	0.35	0.38	0.41	0.45	0.46	0.50	0.53	0.56
	International col.	1.12	1.12	1.20	1.02	0.98	0.94	0.92	0.94	0.93	0.92	0.99	1.10	1.14	1.21
Institute of Physics ASCR	Single institute	0.45	0.38	0.40	0.35	0.36	0.41	0.52	0.55	0.50	0.48	0.45	0.55	0.51	0.57
	National col.	0.52	0.45	0.40	0.34	0.35	0.32	0.36	0.45	0.47	0.38	0.43	0.35	0.39	0.35
	International col.	1.16	1.23	1.37	1.27	1.08	1.06	1.03	1.05	0.96	0.89	1.15	1.37	1.29	1.18
Masaryk University	Single institute	0.36	0.31	0.30	0.25	0.32	0.30	0.37	0.36	0.47	0.39	0.47	0.42	0.46	0.45
	National col.	0.33	0.32	0.34	0.42	0.47	0.40	0.41	0.43	0.44	0.47	0.49	0.53	0.58	0.61
	International col.	0.72	0.63	0.54	0.56	0.85	0.97	0.99	1.12	1.22	0.95	0.84	0.97	0.99	0.97
Institute of Chemical Technology Prague	Single institute	0.22	0.22	0.21	0.19	0.22	0.23	0.22	0.21	0.28	0.39	0.42	0.44	0.36	0.33
	National col.	0.17	0.21	0.27	0.31	0.31	0.30	0.42	0.46	0.48	0.51	0.58	0.46	0.41	0.45
	International col.	0.51	0.52	0.51	0.63	0.81	0.90	0.98	0.65	0.62	0.60	0.57	0.67	0.69	0.69
Czech Technical University in Prague	Single institute	0.28	0.24	0.16	0.17	0.23	0.15	0.20	0.27	0.37	0.39	0.35	0.22	0.22	0.32
	National col.	0.17	0.22	0.26	0.36	0.32	0.32	0.38	0.43	0.45	0.40	0.42	0.37	0.42	0.36
	International col.	0.47	0.53	0.59	0.59	0.43	0.43	0.47	0.53	0.51	0.50	0.70	0.91	1.21	1.44
Palacky University Olomouc	Single institute	0.26	0.26	0.23	0.29	0.29	0.24	0.31	0.45	0.65	0.73	0.47	0.53	0.49	0.48
	National col.	0.45	0.35	0.27	0.16	0.24	0.31	0.34	0.39	0.44	0.44	0.50	0.49	0.56	0.67
	International col.	0.75	0.97	0.98	1.05	1.36	0.78	0.97	0.77	0.76	0.80	1.03	1.05	1.04	1.14
	Single institute	0.63	0.72	0.72	0.46	0.53	0.69	0.91	0.63	0.53	0.69	0.64	0.56	0.62	0.63

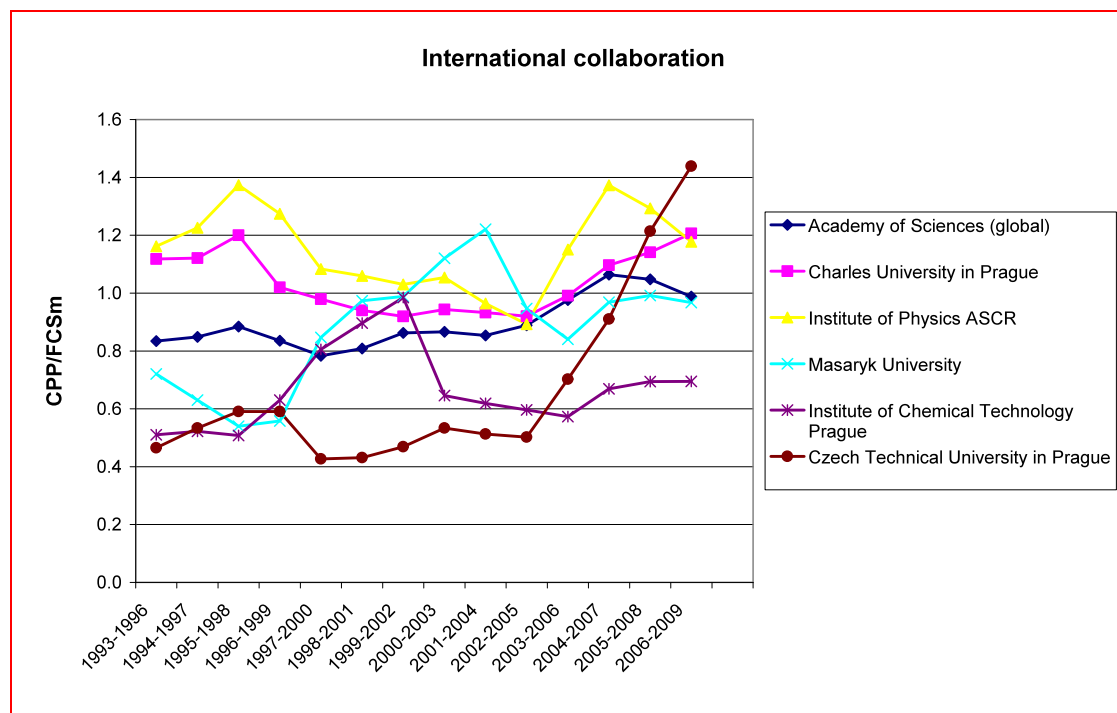
Bibliometric Analysis of the Czech Republic Research Output in an International Context – Institutional Analysis / Annex 8 to the Second Interim Report

Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
J. Heyrovsky Institute of Physical Chemistry ASCR	Single institute	0.63	0.72	0.72	0.46	0.53	0.69	0.91	0.63	0.53	0.69	0.64	0.56	0.62	0.63
	National col.	0.72	0.72	0.91	0.83	0.70	0.63	0.92	1.05	0.86	1.01	0.82	0.74	0.48	0.55
	International col.	1.60	1.38	1.08	1.17	1.08	1.19	1.39	1.27	1.21	1.08	1.01	1.01	0.91	0.84
Biology Centre ASCR	Single institute	0.40	0.37	0.44	0.44	0.59	0.47	0.51	0.39	0.36	0.45	0.46	0.56	0.65	0.91
	National col.	0.44	0.46	0.32	0.38	0.46	0.59	0.48	0.47	0.66	0.72	0.69	0.57	0.56	0.59
	International col.	0.60	0.62	0.81	0.85	0.85	0.77	0.76	0.71	0.83	0.88	0.92	0.90	0.82	0.93
University of South Bohemia in Ceske Budejovice	Single institute	0.37	0.37	0.28	0.34	0.32	0.34	0.31	0.51	0.59	0.73	0.57	0.59	0.51	0.44
	National col.	0.43	0.40	0.35	0.56	0.64	0.69	0.56	0.47	0.66	0.63	0.68	0.56	0.60	0.66
	International col.	0.22	0.41	0.64	0.79	0.73	0.71	0.88	0.85	0.82	0.79	0.87	0.98	0.93	0.89
Institute of Organic Chemistry and Biochemistry ASCR	Single institute	0.33	0.28	0.23	0.19	0.30	0.42	0.42	0.39	0.35	0.54	0.58	0.66	0.70	0.87
	National col.	0.21	0.29	0.33	0.40	0.38	0.44	0.71	0.83	0.66	0.78	0.86	0.82	0.85	1.04
	International col.	0.47	0.50	0.54	0.55	0.43	0.58	0.67	0.82	1.07	0.97	1.02	1.11	1.23	1.22
Institute of Macromolecular Chemistry ASCR	Single institute	0.34	0.40	0.44	0.40	0.68	0.64	0.78	0.77	0.52	0.68	0.77	1.03	1.03	0.88
	National col.	0.07	0.16	0.31	0.38	0.30	0.35	0.61	0.59	0.49	0.49	0.51	0.56	0.58	0.55
	International col.	0.95	0.98	1.05	1.09	1.08	1.12	1.10	1.11	0.94	1.02	0.99	0.90	0.94	1.27
Institute of Microbiology ASCR	Single institute	0.16	0.19	0.19	0.18	0.35	0.32	0.37	0.39	0.44	0.46	0.41	0.47	0.71	0.85
	National col.	0.14	0.20	0.23	0.21	0.23	0.23	0.39	0.47	0.37	0.42	0.47	0.49	0.53	0.61
	International col.	0.67	0.66	0.48	0.54	0.54	0.67	0.72	0.71	0.79	0.66	0.65	0.64	0.75	0.87
University of Pardubice	Single institute	0.12	0.22	0.27	0.26	0.23	0.34	0.34	0.26	0.34	0.44	0.45	0.45	0.47	0.53
	National col.	0.28	0.25	0.27	0.18	0.25	0.39	0.46	0.48	0.43	0.59	0.62	0.54	0.52	0.50
	International col.	0.87	0.96	1.15	0.67	0.57	0.46	0.44	0.70	0.78	0.82	0.87	0.86	0.89	0.96
Institute of Physiology ASCR	Single institute	0.34	0.34	0.38	0.33	0.36	0.40	0.38	0.41	0.45	0.63	0.61	0.68	0.56	0.45
	National col.	0.15	0.19	0.20	0.28	0.26	0.25	0.26	0.32	0.33	0.37	0.44	0.41	0.39	0.45
	International col.	0.63	0.76	0.89	0.66	0.63	0.71	0.73	0.56	0.61	0.58	0.64	0.97	0.96	0.84
Nuclear Physics Institute ASCR	Single institute	0.15	0.20	0.20	0.21	0.25	0.55	0.99	0.81	0.69	0.65	0.61	0.68	0.43	0.38
	National col.	0.15	0.20	0.27	0.40	0.35	0.25	0.33	0.35	0.47	0.34	0.29	0.38	0.37	0.41
	International col.	0.51	0.54	0.60	0.68	0.66	0.60	0.70	0.84	0.96	1.21	1.53	1.60	1.71	1.24
Brno University of Technology	Single institute	0.10	0.12	0.15	0.13	0.18	0.25	0.17	0.14	0.22	0.30	0.32	0.32	0.31	0.37
	National col.	0.04	0.11	0.14	0.23	0.31	0.44	0.43	0.36	0.24	0.23	0.29	0.42	0.45	0.52
	International col.	0.68	0.54	0.23	0.31	0.46	0.56	0.56	0.71	0.64	0.37	0.44	0.54	0.56	0.84
University of Veterinary and Pharmaceutical Sciences Brno	Single institute	0.08	0.12	0.20	0.32	0.40	0.47	0.37	0.42	0.40	0.29	0.25	0.24	0.39	0.38
	National col.	0.00	0.09	0.23	0.35	0.47	0.56	0.35	0.42	0.53	0.55	0.45	0.46	0.58	0.55
	International col.	0.08	0.13	0.15	0.19	0.58	0.54	0.55	0.71	0.63	0.53	0.51	0.54	0.61	0.69
Mendel University in Brno	Single institute	0.13	0.13	0.18	0.12	0.19	0.32	0.38	0.26	0.24	0.25	0.36	0.54	0.58	0.97
	National col.	0.00	0.00	0.10	0.37	0.27	0.28	0.46	0.38	0.27	0.29	0.48	0.61	0.61	0.47
	International col.	0.89	0.76	0.88	0.72	1.11	0.77	0.58	0.69	0.76	1.06	1.02	0.92	0.77	0.95
	Single institute	0.18	0.33	0.32	0.23	0.22	0.25	0.40	0.31	0.28	0.34	0.26	0.28	0.43	0.65

Bibliometric Analysis of the Czech Republic Research Output in an International Context – Institutional Analysis / Annex 8 to the Second Interim Report

<b>Institute</b>	<b>Type coop.</b>	<b>1993-1996</b>	<b>1994-1997</b>	<b>1995-1998</b>	<b>1996-1999</b>	<b>1997-2000</b>	<b>1998-2001</b>	<b>1999-2002</b>	<b>2000-2003</b>	<b>2001-2004</b>	<b>2002-2005</b>	<b>2003-2006</b>	<b>2004-2007</b>	<b>2005-2008</b>	<b>2006-2009</b>
Czech University of Life Sciences Prague	Single institute	0.18	0.33	0.32	0.23	0.22	0.25	0.40	0.31	0.28	0.34	0.26	0.28	0.43	0.65
	National col.	0.61	0.36	0.47	0.22	0.23	0.31	0.25	0.31	0.35	0.55	0.49	0.50	0.61	0.69
	International col.	1.07	0.80	0.49	0.80	0.81	0.92	0.33	0.45	0.63	0.69	0.71	0.53	0.66	0.93
Institute of Chemical Process Fundamentals ASCR	Single institute	0.47	0.57	0.40	0.42	0.47	0.24	0.21	0.22	0.29	0.28	0.35	0.41	0.41	0.35
	National col.	0.24	0.25	0.32	0.48	0.59	0.49	0.46	0.48	0.56	0.73	0.54	0.50	0.60	0.54
	International col.	0.43	0.44	0.57	0.67	0.70	0.55	0.68	0.51	0.55	0.70	0.89	1.01	0.76	0.69
Institute of Molecular Genetics ASCR	Single institute	0.56	0.52	0.34	0.34	0.24	0.21	0.27	0.20	0.29	0.38	0.48	0.45	0.39	0.49
	National col.	0.07	0.13	0.20	0.29	0.34	0.45	0.33	0.39	0.44	0.34	0.30	0.33	0.39	0.55
	International col.	0.84	0.86	0.82	0.61	0.70	0.85	1.28	1.15	1.00	1.21	1.13	1.33	1.27	0.94
Institute of Biophysics ASCR	Single institute	0.56	0.58	0.57	0.63	0.47	0.35	0.70	1.14	1.29	1.03	0.51	0.67	0.86	0.77
	National col.	0.49	0.52	0.57	0.43	0.55	0.54	0.49	0.47	0.56	0.61	0.70	0.94	0.89	0.91
	International col.	0.60	0.62	0.81	1.11	1.18	1.02	1.16	1.04	1.02	1.04	0.99	0.93	0.91	0.93
VSB-Technical University of Ostrava	Single institute	0.08	0.06	0.11	0.04	0.09	0.14	0.26	0.37	0.38	0.33	0.54	0.62	0.55	0.30
	National col.	0.17	0.13	0.11	0.22	0.19	0.44	0.33	0.30	0.37	0.43	0.64	0.65	0.47	0.53
	International col.	0.00	0.27	0.47	0.50	0.92	0.89	0.66	1.11	0.76	0.59	0.54	0.55	0.58	0.61
Institute of Mathematics ASCR	Single institute	0.64	0.79	0.68	0.95	1.22	0.79	0.77	0.52	0.33	0.82	1.06	1.61	1.21	0.82
	National col.	0.00	0.00	0.00	0.06	0.32	0.32	0.51	1.11	1.14	0.79	0.97	0.93	0.64	0.63
	International col.	0.45	0.82	0.80	0.93	0.63	0.69	0.66	0.74	1.37	1.13	1.20	1.01	0.89	0.90
Astronomical Institute ASCR	Single institute	0.15	0.21	0.32	0.35	0.22	0.28	0.31	0.25	0.25	0.21	0.11	0.20	0.28	0.22
	National col.	0.26	0.29	0.27	0.16	0.52	0.56	0.74	0.68	0.49	0.26	0.25	0.12	0.11	0.14
	International col.	0.30	0.34	0.37	0.40	0.50	0.46	0.52	0.54	0.45	0.46	0.54	0.48	0.54	0.57

Figure 24 Evolution of CPP/FCSm of main institutions by International collaboration – block analysis



## 8.4 Research profile (main fields)

In the following sections and tables (Table 15 to Table 82) bibliometric indicators are presented for the main institutional sectors and individual scientific institutions of the Czech Republic considering the major fields that have been defined and explained in section 3 and Appendix A.

For each of the main fields (a total of 34) a first table with the bibliometric scores of all main institutional sectors with at least 5 publications in the field are presented. A second table includes the main institutions that present at least 50 publications or (when the number of institutions is too short) the 10 first institutions (without counting the Academy of Sciences –global–) with at least 5 publications. A more complete list of institutions per scientific field can be found in Appendix I.

As a general observation based on the analysis of the following tables is that normally the Academy of Sciences (as –global– or its institutes) together with the Charles University in Prague are the leading institutions in terms of production in almost all the fields. Some of the exceptions to this pattern that are worth mentioning are the fields of ‘Economics and Business’ and ‘Political Science and Public Administration’ where the leading institution in terms of production is the University of Economics in Prague (although with a very low field-normalized impact); and the fields of ‘Energy Science and Technology’, ‘Instruments and Instrumentation’ and ‘Mechanical Engineering and Aerospace’ where the Czech Technical University in Prague presents a leading role in the number of publications.



#### 8.4.1 Agriculture and Food Science

Table 15 Main bibliometric indicators for Czech institutional sectors – Agriculture and Food Science

Sector	P	C-sc	CPP	CPP/JCSm	CPP/FCSm	JCSm/FCSm	%nc	%sc
Universities	2439	6219	2.55	0.82	0.46	0.55	46%	30%
Research organizations	1678	5493	3.27	0.80	0.51	0.64	38%	32%
Companies	628	897	1.43	0.87	0.23	0.26	58%	36%
Government	136	324	2.38	0.77	0.43	0.56	42%	34%
Hospitals	51	178	3.49	0.66	0.48	0.73	43%	24%
Other	38	43	1.13	0.87	0.28	0.32	58%	55%

Table 16 Main bibliometric indicators for Czech scientific institutions – Agriculture and Food Science

Institute	P	C-sc	CPP	CPP/JCSm	CPP/FCSm	JCSm / FCSm	%nc	%sc
Academy of Sciences (global)	697	2943	4.22	0.72	0.60	0.84	32%	34%
Czech University of Life Sciences Prague	663	1067	1.61	1.08	0.34	0.32	52%	36%
Mendel University in Brno	509	976	1.92	0.80	0.33	0.41	45%	33%
Institute of Chemical Technology Prague	397	1289	3.25	0.87	0.61	0.70	47%	24%
Institute of Animal Science	391	1028	2.63	0.90	0.48	0.53	37%	33%
Crop Research Institute	346	876	2.53	0.96	0.41	0.42	46%	31%
University of South Bohemia in Ceske Budejovice	298	1000	3.36	0.90	0.59	0.66	41%	30%
Charles University in Prague	250	1046	4.18	0.68	0.52	0.76	39%	30%
Biology Centre ASCR	168	702	4.18	0.59	0.50	0.84	26%	35%
University of Veterinary and Pharmaceutical Sciences Brno	145	265	1.83	1.05	0.47	0.45	41%	39%
Crop Research Institute	346	876	2.53	0.96	0.41	0.42	46%	31%
Institute of Animal Physiology and Genetics ASCR	140	590	4.21	0.74	0.47	0.63	26%	30%
VUC Praha	135	34	0.25	0.84	0.03	0.04	82%	61%
Research Institute for Cattle Breeding	125	209	1.67	1.10	0.26	0.24	46%	37%
Masaryk University	114	363	3.18	0.85	0.67	0.79	46%	28%
Palacky University Olomouc	90	259	2.88	0.61	0.52	0.85	32%	43%
Agricultural Research Institute Kromeriz	73	97	1.33	0.69	0.27	0.39	52%	42%
Institute of Microbiology ASCR	65	307	4.72	0.82	0.84	1.03	35%	27%
Veterinary Research Institute	63	231	3.67	0.91	0.62	0.68	49%	24%
Central Institute for Supervising & Testing in Agriculture	60	98	1.63	0.61	0.26	0.43	52%	37%
Food Research Institute Prague	60	207	3.45	0.93	0.77	0.83	45%	24%
Research Institute of Soil and Water Conservation	57	71	1.25	1.04	0.17	0.16	49%	38%

<b>Institute</b>	<b>P</b>	<b>C-sc</b>	<b>CPP</b>	<b>CPP/ JCSm</b>	<b>CPP/ FCSm</b>	<b>JCSm / FCSm</b>	<b>%nc</b>	<b>%sc</b>
Institute of Experimental Botany ASCR	52	274	5.27	0.83	1.03	1.23	35%	39%
Institute of Systems Biology and Ecology ASCR	51	166	3.25	0.83	0.71	0.86	55%	33%

#### 8.4.2 Astronomy and Astrophysics

Table 17 Main bibliometric indicators for Czech institutional sectors – Astronomy and Astrophysics

<b>Sector</b>	<b>P</b>	<b>C-sc</b>	<b>CPP</b>	<b>CPP/ JCSm</b>	<b>CPP/ FCSm</b>	<b>JCSm/ FCSm</b>	<b>%nc</b>	<b>%sc</b>
Research organisations	1294	6155	4.76	0.57	0.41	0.72	30%	41%
Companies	908	5191	5.72	0.69	0.57	0.83	30%	42%
Government	8	26	3.25	0.25	0.24	0.96	75%	37%

Table 18 Main bibliometric indicators for Czech scientific institutions – Astronomy and Astrophysics

<b>Institute</b>	<b>P</b>	<b>C-sc</b>	<b>CP P</b>	<b>CPP/ JCSm</b>	<b>CPP/ FCSm</b>	<b>JCSm / FCSm</b>	<b>%nc</b>	<b>%sc</b>
Academy of Sciences (global)	1247	5907	4.74	0.57	0.41	0.72	30%	41%
Astronomical Institute ASCR	888	4519	5.09	0.55	0.41	0.75	29%	38%
Charles University in Prague	734	4559	6.21	0.73	0.60	0.82	26%	42%
Institute of Atmospheric Physics ASCR	191	544	2.85	0.85	0.30	0.36	36%	49%
Masaryk University	94	367	3.90	0.55	0.45	0.83	49%	39%
Institute of Physics ASCR	90	497	5.52	0.52	0.64	1.21	24%	45%
Czech Technical University in Prague	63	289	4.59	0.65	0.60	0.92	32%	42%
Silesian University in Opava	50	132	2.64	0.34	0.33	0.99	36%	53%
Nuclear Physics Institute ASCR	30	73	2.43	0.32	0.33	1.05	43%	60%
Observatory and Planetarium Nicolaus Copernicus	28	179	6.39	0.79	0.51	0.64	25%	42%
Institute of Geophysics ASCR	28	57	2.04	0.48	0.16	0.35	43%	42%

### 8.4.3 Basic Life Sciences

Table 19 Main bibliometric indicators for Czech institutional sectors – Basic Life Sciences

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Research organizations	6296	63099	10.02	0.85	0.64	0.75	18%	30%
Universities	5165	42951	8.32	0.83	0.64	0.77	22%	28%
Hospitals	645	4797	7.44	0.83	0.58	0.69	26%	23%
Government	364	3145	8.64	0.97	0.69	0.71	20%	31%
Companies	302	2083	6.90	0.85	0.57	0.66	25%	23%
Other	26	146	5.62	0.81	0.63	0.78	31%	31%

Table 20 Main bibliometric indicators for Czech scientific institutions – Basic Life Sciences

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Academy of Sciences (global)	5650	56887	10.07	0.84	0.63	0.75	18%	30%
Charles University in Prague	2434	21384	8.79	0.81	0.62	0.76	22%	27%
Institute of Microbiology ASCR	1210	8714	7.20	0.74	0.47	0.63	21%	29%
Masaryk University	933	7553	8.10	0.78	0.61	0.78	20%	32%
Institute of Physiology ASCR	657	6874	10.46	0.73	0.54	0.75	20%	30%
Institute of Organic Chemistry and Biochemistry ASCR	623	4827	7.75	0.73	0.51	0.69	21%	34%
Institute of Molecular Genetics ASCR	581	7032	12.10	0.74	0.66	0.89	16%	27%
Institute of Biophysics ASCR	565	7026	12.44	0.87	0.76	0.87	17%	37%
Biology Centre ASCR	548	4722	8.62	0.86	0.63	0.73	18%	33%
University of South Bohemia in Ceske Budejovice	499	3491	7.00	0.84	0.69	0.82	23%	32%
Palacky University Olomouc	477	3997	8.38	1.01	0.74	0.74	24%	26%
Institute of Chemical Technology Prague	471	4083	8.67	0.84	0.68	0.80	20%	22%
Institute of Experimental Medicine ASCR	402	5016	12.48	0.93	0.68	0.74	13%	27%
Institute of Animal Physiology and Genetics ASCR	344	3400	9.88	0.91	0.60	0.66	16%	31%
National Institute of Public Health and regional hygienic stations	314	2898	9.23	0.99	0.71	0.72	17%	30%
Institute of Analytical Chemistry ASCR	288	3196	11.10	0.76	0.87	1.15	14%	22%
Institute of Experimental Botany ASCR	287	3515	12.25	1.09	0.86	0.79	15%	27%
Veterinary Research Institute	217	1697	7.82	0.97	0.71	0.73	21%	36%
University of Pardubice	186	1707	9.18	0.96	0.91	0.94	24%	25%
Institute of Macromolecular Chemistry ASCR	170	2147	12.63	1.15	0.99	0.86	18%	26%
Mendel University in Brno	156	835	5.35	0.72	0.53	0.74	24%	44%
Institute of Hematology and Blood	140	1251	8.94	0.76	0.49	0.65	16%	29%

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Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm / FCSm	%nc	%sc
Transfusion								
University of Defense	133	1102	8.29	1.00	0.87	0.87	23%	33%
University of Veterinary and Pharmaceutical Sciences Brno	114	422	3.70	0.75	0.43	0.57	36%	32%
J. Heyrovsky Institute of Physical Chemistry ASCR	109	1792	16.44	1.22	0.94	0.77	15%	32%
Institute of Animal Science	99	1012	10.22	0.87	0.65	0.75	22%	22%
Institute of Endocrinology	97	967	9.97	0.88	0.54	0.62	11%	30%
General University Hospital Prague	95	891	9.38	0.78	0.63	0.81	23%	24%
Czech University of Life Sciences Prague	89	403	4.53	0.79	0.41	0.52	30%	39%
University Hospital Brno	85	675	7.94	0.82	0.55	0.68	21%	17%
University Hospital Motol	84	699	8.32	0.72	0.69	0.96	25%	27%
Institute for Clinical and Experimental Medicine	83	685	8.25	0.71	0.57	0.81	18%	25%
Institute of Systems Biology and Ecology ASCR	82	723	8.82	1.00	0.70	0.70	22%	24%
Institute of Botany ASCR	78	494	6.33	1.17	0.67	0.57	22%	34%
University Hospital Hradec Kralove	72	484	6.72	1.09	0.67	0.61	32%	22%
University Hospital Olomouc	72	467	6.49	0.87	0.57	0.66	25%	18%
Masaryk Memorial Cancer Institute	70	924	13.20	0.82	0.84	1.03	14%	27%
Institute of Vertebrate Biology ASCR	61	290	4.75	0.93	0.57	0.61	38%	31%
Brno University of Technology	55	202	3.67	0.56	0.39	0.69	33%	33%
Crop Research Institute	50	230	4.60	0.98	0.53	0.54	36%	36%

#### 8.4.4 Basic Medical Sciences

Table 21 Main bibliometric indicators for Czech institutional sectors – Basic Medical Sciences

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	590	3100	5.25	0.78	0.59	0.75	29%	40%
Research organizations	453	2637	5.82	0.64	0.58	0.91	25%	38%
Hospitals	100	580	5.80	0.94	0.68	0.73	27%	20%
Companies	74	459	6.20	0.97	0.66	0.68	38%	27%
Government	38	222	5.84	1.06	0.64	0.60	29%	34%

Table 22 Main bibliometric indicators for Czech scientific institutions – Basic Medical Sciences

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm / FCSm	%nc	%sc
Academy of Sciences (global)	413	2372	5.74	0.62	0.57	0.93	24%	39%
Charles University in Prague	345	1643	4.76	0.69	0.51	0.75	28%	40%
Institute of Organic Chemistry and Biochemistry ASCR	120	723	6.03	0.59	0.64	1.10	28%	40%
Institute of Macromolecular Chemistry ASCR	85	494	5.81	0.48	0.48	1.00	20%	37%
Palacky University Olomouc	70	632	9.03	1.35	1.15	0.85	30%	28%
Masaryk University	48	286	5.96	0.86	0.60	0.70	19%	37%
Institute of Microbiology ASCR	46	322	7.00	0.93	0.65	0.70	17%	37%
University of Defense	42	128	3.05	0.98	0.51	0.51	29%	79%
Institute of Chemical Technology Prague	42	417	9.93	0.72	0.93	1.28	10%	43%
Czech Technical University in Prague	40	218	5.45	0.95	0.69	0.73	30%	23%
University of Veterinary and Pharmaceutical Sciences Brno	35	88	2.51	0.77	0.29	0.38	46%	32%

#### 8.4.5 Biological Sciences

Table 23 Main bibliometric indicators for Czech institutional sectors – Biological Sciences

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Research organizations	4741	28438	6.00	0.87	0.64	0.74	27%	32%
Universities	4085	18568	4.55	0.90	0.59	0.66	36%	33%
Other	305	542	1.78	0.75	0.41	0.55	56%	37%
Government	192	529	2.76	0.70	0.35	0.50	44%	38%
Companies	168	628	3.74	0.82	0.40	0.48	33%	37%
Hospitals	118	587	4.97	1.10	0.45	0.40	36%	21%

Table 24 Main bibliometric indicators for Czech scientific institutions – Biological Sciences

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Academy of Sciences (global)	4141	26175	6.32	0.87	0.66	0.75	25%	32%
Charles University in Prague	1410	6238	4.42	0.88	0.52	0.60	35%	34%
Biology Centre ASCR	1190	7985	6.71	0.98	0.80	0.82	27%	31%
University of South Bohemia in Ceske Budejovice	1064	5771	5.42	0.88	0.79	0.90	32%	31%
Masaryk University	719	3203	4.45	0.99	0.59	0.60	36%	34%
Institute of Botany ASCR	688	3411	4.96	0.86	0.66	0.77	26%	33%
Palacky University Olomouc	506	2712	5.36	0.98	0.68	0.69	35%	33%
Institute of Experimental Botany ASCR	473	4539	9.60	0.96	0.87	0.90	17%	27%
Institute of Vertebrate Biology ASCR	363	1660	4.57	1.03	0.79	0.76	28%	38%
Institute of Microbiology ASCR	341	2465	7.23	0.71	0.59	0.84	19%	27%
Crop Research Institute	323	892	2.76	0.79	0.49	0.62	41%	39%
Institute of Systems Biology and Ecology ASCR	270	1243	4.60	0.94	0.50	0.53	27%	35%
Mendel University in Brno	231	589	2.55	0.82	0.43	0.52	45%	41%
Institute of Physiology ASCR	222	1281	5.77	0.61	0.43	0.71	25%	37%
Czech University of Life Sciences Prague	213	486	2.28	0.97	0.54	0.56	49%	37%
Institute of Animal Physiology and Genetics ASCR	209	1325	6.34	1.02	0.69	0.68	22%	34%
National Museum	173	304	1.76	0.80	0.50	0.62	60%	37%
Institute of Organic Chemistry and Biochemistry ASCR	171	822	4.81	0.72	0.46	0.64	27%	38%
Institute of Biophysics ASCR	156	1511	9.69	0.68	0.80	1.17	12%	38%
Institute of Molecular Genetics ASCR	155	705	4.55	0.74	0.25	0.33	35%	36%
Institute of Animal Science	121	608	5.02	0.65	0.54	0.83	26%	30%
University of Veterinary and Pharmaceutical Sciences Brno	115	190	1.65	0.62	0.37	0.59	49%	46%
National Institute of Public Health and	64	211	3.30	0.56	0.29	0.51	44%	36%

<b>Institute</b>	<b>P</b>	<b>C-sc</b>	<b>CPP</b>	<b>CPP/ JCS m</b>	<b>CPP/ FCS m</b>	<b>JCSm / FCSm</b>	<b>%nc</b>	<b>%sc</b>
regional hygienic stations								
Institute of Chemical Technology Prague	57	277	4.86	0.85	0.54	0.64	25%	25%
Moravian Museum	56	72	1.29	0.68	0.29	0.42	55%	36%
Agency for Nature Conservation and Landscape Protection of the Czech Republic	53	131	2.47	1.10	0.42	0.38	34%	45%
Institute of Hematology and Blood Transfusion	50	178	3.56	0.69	0.22	0.32	34%	44%

#### 8.4.6 Biomedical Sciences

Table 25 Main bibliometric indicators for Czech institutional sectors – Biomedical Sciences

<b>Sector</b>	<b>P</b>	<b>C-sc</b>	<b>CPP</b>	<b>CPP/ JCSm</b>	<b>CPP/ FCSm</b>	<b>JCSm/ FCSm</b>	<b>%nc</b>	<b>%sc</b>
Universities	4825	26833	5.56	0.88	0.50	0.58	35%	28%
Research organizations	3923	32115	8.19	0.78	0.58	0.75	23%	30%
Hospitals	1739	6696	3.85	0.97	0.35	0.36	47%	22%
Government	377	3197	8.48	0.96	0.68	0.71	19%	27%
Companies	256	1454	5.68	0.81	0.45	0.55	31%	31%
Other	13	17	1.31	1.29	0.13	0.10	54%	26%

Table 26 Main bibliometric indicators for Czech scientific institutions – Biomedical Sciences

<b>Institute</b>	<b>P</b>	<b>C-sc</b>	<b>CPP</b>	<b>CPP/ JCS m</b>	<b>CPP/ FCS m</b>	<b>JCSm / FCSm</b>	<b>%nc</b>	<b>%sc</b>
Charles University in Prague	3169	19605	6.19	0.87	0.52	0.60	33%	26%
Academy of Sciences (global)	3107	27309	8.79	0.76	0.61	0.80	21%	30%
Institute of Physiology ASCR	999	7566	7.57	0.59	0.47	0.79	22%	32%
Masaryk University	682	3292	4.83	0.88	0.43	0.49	33%	27%
Institute of Experimental Medicine ASCR	492	4905	9.97	0.94	0.72	0.77	19%	30%
Palacky University Olomouc	400	1865	4.66	1.07	0.56	0.53	45%	23%
Institute for Clinical and Experimental Medicine	386	2528	6.55	0.94	0.53	0.57	24%	21%
Institute of Molecular Genetics ASCR	347	4673	13.47	0.80	0.74	0.93	18%	24%
National Institute of Public Health and regional hygienic stations	332	3055	9.20	0.98	0.72	0.73	17%	27%
Institute of Microbiology ASCR	320	2950	9.22	0.76	0.59	0.77	15%	34%
University of Defense	251	1266	5.04	0.95	0.54	0.57	30%	46%
Institute of Organic Chemistry and Biochemistry ASCR	225	1353	6.01	0.61	0.49	0.80	25%	42%

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<b>Institute</b>	<b>P</b>	<b>C-sc</b>	<b>CPP</b>	<b>CPP/ JCS m</b>	<b>CPP/ FCS m</b>	<b>JCSm / FCSm</b>	<b>%nc</b>	<b>%sc</b>
Biology Centre ASCR	209	1551	7.42	0.86	0.63	0.73	22%	30%
General University Hospital Prague	198	864	4.36	1.11	0.39	0.35	48%	21%
University Hospital Olomouc	190	434	2.28	0.94	0.27	0.28	57%	18%
University Hospital Hradec Kralove	189	545	2.88	0.77	0.31	0.40	43%	28%
University Hospital Motol	188	967	5.14	0.95	0.46	0.49	39%	23%
Institute of Biophysics ASCR	184	1116	6.07	0.75	0.55	0.73	24%	38%
University of South Bohemia in Ceske Budejovice	183	895	4.89	0.97	0.65	0.67	37%	24%
University Hospital Brno	179	585	3.27	0.87	0.30	0.34	45%	19%
University of Veterinary and Pharmaceutical Sciences Brno	144	581	4.03	1.02	0.53	0.52	42%	23%
Czech Technical University in Prague	126	334	2.65	0.82	0.44	0.54	48%	31%
Institute of Endocrinology	124	637	5.14	0.81	0.34	0.42	23%	27%
Veterinary Research Institute	122	970	7.95	1.04	0.82	0.80	20%	34%
Institute of Hematology and Blood Transfusion	118	884	7.49	0.56	0.45	0.81	25%	31%
Na Homolce Hospital	117	963	8.23	1.35	0.70	0.52	44%	16%
Institute of Chemical Technology Prague	112	603	5.38	0.83	0.60	0.72	23%	30%
St. Anne's University Hospital Brno	102	227	2.23	0.68	0.16	0.24	56%	23%
Nuclear Physics Institute ASCR	94	269	2.86	0.59	0.38	0.63	39%	39%
Prague Psychiatric Centre	90	432	4.80	0.82	0.42	0.52	33%	22%
Institute of Macromolecular Chemistry ASCR	89	1547	17.38	1.15	1.44	1.25	9%	31%
University Hospital Ostrava	78	228	2.92	1.29	0.27	0.21	62%	16%
University Hospital in Plzen	77	212	2.75	0.83	0.31	0.37	43%	18%
Institute for Postgraduate Medical Education	74	356	4.81	1.13	0.33	0.29	45%	26%
Institute of Experimental Botany ASCR	73	480	6.58	0.66	0.43	0.65	16%	31%
Thomayer University Hospital	68	206	3.03	1.06	0.28	0.26	60%	14%
Institute of Animal Physiology and Genetics ASCR	65	274	4.22	0.63	0.35	0.55	25%	40%
ASCR unresolved	60	785	13.08	1.21	0.99	0.82	28%	16%
National Radiation Protection Institute	58	108	1.86	0.90	0.42	0.47	57%	42%
Central Military Hospital Prague	58	123	2.12	1.18	0.20	0.17	57%	15%
University Hospital Kralovske Vinohrady	56	295	5.27	1.29	0.48	0.37	54%	29%
Faculty Hospital Na Bulovce	54	246	4.56	1.01	0.37	0.37	50%	19%



#### 8.4.7 Chemistry and Chemical Engineering

Table 27 Main bibliometric indicators for Czech institutional sectors – Chemistry and Chemical Engineering

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	10941	55625	5.08	0.83	0.49	0.59	35%	36%
Research organizations	10111	74174	7.34	0.86	0.72	0.83	27%	35%
Companies	1094	4487	4.10	0.75	0.39	0.52	36%	34%
Government	235	947	4.03	0.93	0.31	0.34	33%	33%
Hospitals	149	808	5.42	0.91	0.50	0.55	44%	19%
Other	62	81	1.31	0.50	0.24	0.47	50%	87%

Table 28 Main bibliometric indicators for Czech scientific institutions – Chemistry and Chemical Engineering

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Academy of Sciences (global)	9787	72554	7.41	0.86	0.73	0.85	27%	35%
Charles University in Prague	3587	19562	5.45	0.82	0.53	0.65	31%	39%
Institute of Chemical Technology Prague	2782	13437	4.83	0.80	0.39	0.49	35%	34%
J. Heyrovsky Institute of Physical Chemistry ASCR	2252	25353	11.26	0.99	0.99	1.01	21%	31%
Institute of Organic Chemistry and Biochemistry ASCR	1723	13352	7.75	1.03	0.74	0.72	26%	35%
Institute of Macromolecular Chemistry ASCR	1690	12559	7.43	0.82	0.76	0.92	24%	32%
University of Pardubice	1416	7358	5.20	0.88	0.56	0.64	33%	36%
Masaryk University	1282	8003	6.24	0.87	0.58	0.66	27%	36%
Institute of Chemical Process Fundamentals ASCR	1009	5190	5.14	0.67	0.55	0.82	31%	39%
Institute of Physics ASCR	900	3556	3.95	0.64	0.50	0.78	36%	53%
Institute of Inorganic Chemistry ASCR	652	2946	4.52	0.56	0.47	0.83	31%	47%
Palacky University Olomouc	603	2868	4.76	0.94	0.50	0.53	35%	30%
Institute of Analytical Chemistry ASCR	477	4511	9.46	0.72	0.81	1.11	17%	25%
Brno University of Technology	462	1701	3.68	0.66	0.39	0.59	40%	36%
Czech Technical University in Prague	455	1519	3.34	0.82	0.50	0.60	47%	46%
Institute of Microbiology ASCR	403	2154	5.34	0.64	0.44	0.69	25%	40%
Nuclear Physics Institute ASCR	357	808	2.26	0.63	0.29	0.46	48%	51%
Institute of Biophysics ASCR	327	5775	17.66	1.57	1.70	1.08	21%	34%
Tomas Bata University in Zlin	306	828	2.71	0.70	0.51	0.72	49%	40%
Mendel University in Brno	249	1144	4.59	1.02	0.61	0.60	33%	53%
University of West Bohemia in Plzen	190	138	0.73	0.40	0.15	0.37	78%	69%
University of South Bohemia in Ceske Budejovice	173	1080	6.24	1.07	0.75	0.70	46%	23%
Research Institute of Organic Syntheses	166	609	3.67	0.76	0.41	0.53	39%	48%

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Institute	P	C-sc	CPP	CPP/ JCS m	CPP/ FCS m	JCSm / FCSm	%nc	%sc
University of Defense	154	578	3.75	0.96	0.34	0.36	44%	52%
Zentiva	152	486	3.20	0.75	0.26	0.35	34%	35%
VSB-Technical University of Ostrava	150	453	3.02	0.82	0.36	0.44	45%	29%
Institute of Physiology ASCR	141	951	6.74	0.69	0.47	0.69	30%	25%
University of Veterinary and Pharmaceutical Sciences Brno	134	178	1.33	0.77	0.20	0.27	56%	64%
Jan Evangelista Purkyně University in Usti nad Labem	123	408	3.32	0.61	0.43	0.71	44%	27%
Institute of Experimental Botany ASCR	117	541	4.62	0.84	0.50	0.59	38%	41%
National Institute of Public Health and regional hygienic stations	109	452	4.15	0.87	0.36	0.41	27%	33%
Institute of Physics of Materials ASCR	109	349	3.20	0.72	0.48	0.67	36%	34%
Institute of Photonics and Electronics ASCR	103	1474	14.31	1.61	1.66	1.03	31%	18%
Technical University of Liberec	101	240	2.38	0.72	0.47	0.65	48%	45%
Czech University of Life Sciences Prague	101	498	4.93	1.24	0.45	0.36	38%	33%
Teva Czech Industries	87	371	4.26	0.57	0.28	0.49	24%	42%
Biology Centre ASCR	82	263	3.21	0.52	0.32	0.63	35%	45%
ASCR unresolved	82	636	7.76	0.96	0.69	0.72	28%	35%
Nuclear Research Institute Rez	74	179	2.42	0.72	0.37	0.51	42%	49%
Research Institute of Inorganic Chemistry	56	265	4.73	0.62	0.51	0.82	32%	32%
Veterinary Research Institute	55	462	8.40	0.98	0.87	0.89	20%	30%
Institute of Systems Biology and Ecology ASCR	53	501	9.45	1.85	0.92	0.50	42%	15%
Institute of Experimental Medicine ASCR	50	255	5.10	0.90	0.46	0.51	34%	33%

#### 8.4.8 Civil Engineering and Construction

Table 29 Main bibliometric indicators for Czech institutional sectors – Civil Engineering and Construction

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	223	526	2.36	0.62	0.64	1.04	46%	30%
Research organizations	90	311	3.46	0.72	0.71	0.99	38%	23%
Companies	28	105	3.75	0.95	0.95	1.00	64%	34%
Government	10	20	2.00	0.45	0.23	0.51	30%	26%
Hospitals	6	2	0.33	0.17	0.06	0.32	83%	50%

Table 30 Main bibliometric indicators for Czech scientific institutions – Civil Engineering and Construction

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm / FCSm	%nc	%sc
Czech Technical University in Prague	104	228	2.19	0.72	0.74	1.02	45%	26%
Academy of Sciences (global)	74	173	2.34	0.50	0.46	0.92	35%	24%
Brno University of Technology	55	100	1.82	0.44	0.49	1.13	42%	39%
Institute of Theoretical and Applied Mechanics ASCR	28	62	2.21	0.57	0.48	0.84	32%	24%
Charles University in Prague	25	40	1.60	0.40	0.29	0.72	56%	32%
University of Pardubice	13	17	1.31	0.26	0.44	1.69	46%	35%
Institute of Chemical Technology Prague	13	25	1.92	0.36	0.39	1.08	38%	22%
Institute of Thermomechanics ASCR	9	5	0.56	0.12	0.12	0.99	67%	64%
Institute of Hydrodynamics ASCR	9	31	3.44	0.47	0.51	1.08	33%	26%
Tomas Bata University in Zlin	8	21	2.63	0.43	0.46	1.08	25%	16%
Institute of Chemical Process Fundamentals ASCR	8	42	5.25	0.73	0.67	0.92	25%	13%

#### 8.4.9 Clinical Medicine

Table 31 Main bibliometric indicators for Czech institutional sectors – Clinical Medicine

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	7547	47836	6.34	1.02	0.69	0.68	34%	23%
Research organizations	4684	39150	8.36	1.05	0.76	0.72	27%	27%
Hospitals	3624	24718	6.82	1.17	0.69	0.59	38%	16%
Government	472	4820	10.21	1.08	0.97	0.90	26%	22%
Companies	291	1245	4.28	0.82	0.50	0.60	38%	29%
Other	47	967	20.57	3.93	2.42	0.62	32%	10%

Table 32 Main bibliometric indicators for Czech scientific institutions – Clinical Medicine

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Charles University in Prague	4844	36906	7.62	1.04	0.75	0.72	31%	22%
Academy of Sciences (global)	2579	16667	6.46	0.81	0.56	0.69	25%	35%
Masaryk University	1014	5366	5.29	1.02	0.57	0.56	35%	22%
University of Veterinary and Pharmaceutical Sciences Brno	912	2189	2.40	0.94	0.55	0.59	42%	34%
Biology Centre ASCR	751	3563	4.74	0.98	0.66	0.68	26%	38%
Institute for Clinical and Experimental Medicine	586	7489	12.78	1.37	1.20	0.88	28%	15%
University Hospital Brno	507	2993	5.90	1.16	0.62	0.54	37%	14%
Palacky University Olomouc	484	2643	5.46	0.97	0.62	0.63	41%	17%
General University Hospital Prague	473	3391	7.17	1.21	0.73	0.61	34%	19%
Veterinary Research Institute	464	1683	3.63	1.07	0.71	0.66	35%	46%
University Hospital Motol	457	3149	6.89	1.03	0.72	0.70	34%	20%
Institute of Physiology ASCR	390	3015	7.73	0.60	0.51	0.85	22%	35%
Institute of Hematology and Blood Transfusion	378	2416	6.39	0.81	0.46	0.57	28%	29%
National Institute of Public Health and regional hygienic stations	375	4105	10.95	1.04	0.99	0.95	22%	23%
University of South Bohemia in Ceske Budejovice	350	1529	4.37	1.18	0.84	0.71	27%	35%
Institute of Molecular Genetics ASCR	349	2327	6.67	0.67	0.39	0.58	25%	39%
University Hospital Hradec Kralove	316	2273	7.19	1.68	0.80	0.48	41%	13%
University Hospital Olomouc	285	1144	4.01	0.83	0.40	0.49	46%	19%
Institute of Experimental Medicine ASCR	256	2671	10.43	1.00	0.78	0.79	20%	30%
University Hospital in Plzen	252	1391	5.52	1.01	0.64	0.63	36%	15%
Masaryk Memorial Cancer Institute	220	3977	18.08	1.56	1.29	0.82	24%	14%
Na Homolce Hospital	218	1547	7.10	1.10	0.72	0.65	35%	16%
Institute of Endocrinology	186	1532	8.24	0.78	0.49	0.63	14%	24%

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Institute	P	C-sc	CPP	CPP/ JCS m	CPP/ FCS m	JCSm / FCSm	%nc	%sc
St. Anne's University Hospital Brno	177	1059	5.98	1.16	0.55	0.48	45%	13%
Institute of Microbiology ASCR	164	1102	6.72	0.71	0.49	0.69	16%	36%
University Hospital Kralovske Vinohrady	163	1483	9.10	1.21	0.92	0.76	36%	16%
Institute of Animal Physiology and Genetics ASCR	149	676	4.54	0.88	0.51	0.58	30%	39%
Mendel University in Brno	145	428	2.95	0.84	0.43	0.51	34%	42%
State Veterinary Administration of the Czech Republic	138	527	3.82	1.20	0.76	0.63	24%	48%
University Hospital Ostrava	137	1139	8.31	1.48	0.79	0.54	51%	13%
University of Defense	133	789	5.93	1.00	0.60	0.61	41%	25%
Institute of Biophysics ASCR	124	551	4.44	0.52	0.32	0.60	27%	42%
Institute of Vertebrate Biology ASCR	124	978	7.89	1.90	1.39	0.73	30%	17%
Faculty Hospital Na Bulovce	121	1030	8.51	1.01	0.74	0.73	40%	16%
Central Military Hospital Prague	114	700	6.14	1.28	0.65	0.51	45%	11%
Institute for Postgraduate Medical Education	113	1156	10.23	1.28	0.75	0.59	40%	17%
Institute of Rheumatology	111	3554	32.02	2.30	2.77	1.21	15%	15%
Thomayer University Hospital	100	356	3.56	1.06	0.37	0.35	57%	13%
Prague Psychiatric Centre	100	1117	11.17	1.25	1.06	0.85	31%	13%
Institute of Organic Chemistry and Biochemistry ASCR	99	362	3.66	0.46	0.24	0.52	24%	50%
Czech University of Life Sciences Prague	89	339	3.81	0.84	0.52	0.62	39%	23%
Institute of Animal Science	87	417	4.79	0.75	0.69	0.93	33%	30%
Czech Technical University in Prague	76	202	2.66	0.68	0.40	0.58	50%	26%
ASCR unresolved	63	1020	16.19	1.39	1.27	0.92	21%	14%
Masaryk Hospital in Ústí nad Labem,	62	392	6.32	1.72	0.54	0.31	48%	19%
National Radiation Protection Institute	60	319	5.32	1.68	0.83	0.49	43%	21%
Nuclear Physics Institute ASCR	56	101	1.80	0.61	0.21	0.35	48%	43%
Institute of Chemical Technology Prague	54	233	4.31	0.65	0.48	0.75	26%	32%
Pardubice Regional Hospital	53	460	8.68	1.27	1.24	0.98	57%	9%
Institute of Computer Science ASCR	52	429	8.25	1.25	0.69	0.55	29%	12%

#### 8.4.10 Computer Sciences

Table 33 Main bibliometric indicators for Czech institutional sectors – Computer Sciences

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	2119	4239	2.00	0.83	0.60	0.72	58%	32%
Research organizations	984	3898	3.96	0.98	0.93	0.95	48%	28%
Companies	67	103	1.54	0.88	0.50	0.56	43%	28%
Hospitals	23	22	0.96	0.47	0.28	0.59	52%	39%
Government	12	16	1.33	0.50	0.21	0.42	67%	41%

Table 34 Main bibliometric indicators for Czech scientific institutions – Computer Sciences

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Academy of Sciences (global)	965	3886	4.03	0.99	0.94	0.95	47%	28%
Charles University in Prague	629	1522	2.42	0.81	0.62	0.77	54%	31%
Czech Technical University in Prague	524	1018	1.94	0.90	0.65	0.72	58%	27%
Institute of Information Theory and Automation ASCR	402	1953	4.86	1.25	1.24	0.99	47%	23%
Institute of Computer Science ASCR	301	759	2.52	0.75	0.61	0.82	53%	33%
Masaryk University	246	453	1.84	0.74	0.58	0.78	58%	40%
Brno University of Technology	174	167	0.96	0.54	0.29	0.54	72%	35%
VSB-Technical University of Ostrava	165	413	2.50	1.08	0.78	0.72	46%	40%
University of West Bohemia in Plzen	154	200	1.30	0.83	0.41	0.49	72%	35%
Institute of Mathematics ASCR	103	434	4.21	1.30	1.33	1.02	44%	24%
Palacky University Olomouc	86	111	1.29	0.81	0.69	0.85	63%	42%
Silesian University in Opava	58	155	2.67	0.95	0.87	0.91	43%	25%
University of Economics Prague	56	164	2.93	1.18	0.67	0.57	59%	19%
University of Ostrava	52	178	3.42	1.26	1.08	0.86	37%	31%

#### 8.4.11 Creative Arts, Culture and Music

Table 35 Main bibliometric indicators for Czech institutional sectors – Creative Arts, Culture and Music

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	78	38	0.49	0.90	0.75	0.84	85%	24%
Research organizations	38	11	0.29	1.15	0.80	0.69	87%	35%
Other	13	3	0.23	1.83	0.81	0.44	85%	0%
Government	6	4	0.67	1.24	1.96	1.58	83%	0%

Table 36 Main bibliometric indicators for Czech scientific institutions – Creative Arts, Culture and Music

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm / FCSm	%nc	%sc
Charles University in Prague	41	9	0.22	0.55	0.45	0.82	85%	36%
Academy of Sciences (global)	30	11	0.37	1.48	1.33	0.90	83%	35%
Institute of Art History of the ASCR,	13	2	0.15	1.47	2.44	1.66	92%	0%
ASCR unresolved	10	1	0.10	0.60	0.34	0.56	90%	0%
Masaryk University	9	1	0.11	0.43	0.44	1.03	89%	0%
Palacky University Olomouc	7	0	0.00	0.00	0.00	0.39	100%	

#### 8.4.12 Earth Sciences and Technology

Table 37 Main bibliometric indicators for Czech institutional sectors – Earth Sciences and Technology

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Research organizations	2232	10690	4.79	0.88	0.58	0.66	34%	34%
Universities	1560	7319	4.69	0.87	0.68	0.78	37%	35%
Other	151	433	2.87	0.66	0.45	0.67	38%	43%
Companies	126	581	4.61	0.90	0.67	0.74	44%	27%
Government	45	215	4.78	1.00	0.45	0.45	36%	38%
Hospitals	5	4	0.80	0.30	0.17	0.58	40%	43%

Table 38 Main bibliometric indicators for Czech scientific institutions – Earth Sciences and Technology

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Academy of Sciences (global)	1779	7591	4.27	0.82	0.50	0.62	35%	37%
Charles University in Prague	1012	5126	5.07	0.90	0.67	0.74	33%	35%
Institute of Geophysics ASCR	483	2271	4.70	0.77	0.45	0.58	29%	39%
Czech Geological Survey	427	2762	6.47	1.04	0.91	0.88	30%	29%
Institute of Atmospheric Physics ASCR	364	1294	3.55	0.85	0.40	0.47	35%	41%
Institute of Geology ASCR	329	1184	3.60	0.77	0.56	0.72	38%	36%
Masaryk University	181	828	4.57	0.88	0.68	0.76	34%	36%
Astronomical Institute ASCR	178	469	2.63	0.80	0.26	0.32	49%	39%
Institute of Rock Structure and Mechanics ASCR	133	274	2.06	0.70	0.39	0.55	55%	37%
VSB-Technical University of Ostrava	97	290	2.99	0.95	0.75	0.79	62%	26%
National Museum	97	201	2.07	0.63	0.38	0.61	44%	46%
Czech Hydrometeorological Institute	79	471	5.96	0.96	0.87	0.91	30%	28%
University of South Bohemia in Ceske Budejovice	75	593	7.91	0.88	1.10	1.25	21%	32%
Czech Technical University in Prague	71	134	1.89	0.46	0.35	0.76	59%	32%
Biology Centre ASCR	67	873	13.03	0.94	1.34	1.43	15%	32%



#### 8.4.13 Economics and Business

Table 39 Main bibliometric indicators for Czech institutional sectors – Economics and Business

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	1011	718	0.71	0.96	0.17	0.18	69%	25%
Research organizations	345	794	2.30	0.93	0.42	0.45	51%	18%
Government	243	235	0.97	1.29	0.18	0.14	61%	25%
Companies	119	92	0.77	0.84	0.12	0.15	65%	21%
Other	18	6	0.33	0.72	0.06	0.08	72%	33%

Table 40 Main bibliometric indicators for Czech scientific institutions – Economics and Business

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm / FCSm	%nc	%sc
University of Economics Prague	435	195	0.45	0.76	0.08	0.11	72%	36%
Academy of Sciences (global)	267	691	2.59	0.88	0.45	0.51	48%	18%
Charles University in Prague	254	331	1.30	1.33	0.31	0.23	63%	17%
CERGE-Economics Institute ASCR	223	604	2.71	0.83	0.47	0.56	46%	18%
Czech National Bank	207	202	0.98	1.35	0.18	0.13	61%	25%
VSB-Technical University of Ostrava	68	44	0.65	1.10	0.12	0.11	71%	35%
Mendel University in Brno	57	62	1.09	0.78	0.76	0.97	54%	17%
Czech University of Life Sciences Prague	57	47	0.82	1.00	1.52	1.52	58%	22%
Masaryk University	49	12	0.24	0.42	0.06	0.14	80%	33%
KOMERCNI BANKA AS	42	34	0.81	1.34	0.13	0.10	67%	24%
Institute of Agricultural Economics and Information Praha	34	42	1.24	1.20	0.33	0.28	68%	29%

#### 8.4.14 Educational Sciences

Table 41 Main bibliometric indicators for Czech institutional sectors – Educational Sciences

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	61	41	0.67	0.48	0.20	0.42	72%	36%
Research organizations	12	26	2.17	0.49	0.36	0.73	33%	19%

Table 42 Main bibliometric indicators for Czech scientific institutions – Educational Sciences

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Charles University in Prague	23	22	0.96	0.57	0.23	0.41	65%	29%
Academy of Sciences (global)	12	26	2.17	0.49	0.36	0.73	33%	19%
Masaryk University	10	9	0.90	0.64	0.22	0.34	70%	44%
Palacky University Olomouc	9	7	0.78	0.31	0.16	0.52	56%	22%
University of Ostrava	7	0	0.00	0.00	0.00	0.04	100%	100%
Institute of Sociology ASCR	5	14	2.80	0.45	0.71	1.59	60%	18%

#### 8.4.15 Electrical Engineering and Telecommunication

Table 43 Main bibliometric indicators for Czech institutional sectors – Electrical Engineering and Telecommunication

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	896	1776	1.98	0.64	0.54	0.84	55%	36%
Research organizations	594	2455	4.13	0.77	0.83	1.08	43%	31%
Companies	82	140	1.71	0.81	0.50	0.62	56%	36%

Table 44 Main bibliometric indicators for Czech scientific institutions – Electrical Engineering and Telecommunication

Institute	P	C-sc	CPP	CPP/ JCS m	CPP/ FCS m	JCSm / FCSm	%nc	%sc
Academy of Sciences (global)	581	2435	4.19	0.77	0.84	1.08	43%	31%
Czech Technical University in Prague	368	990	2.69	0.72	0.79	1.11	49%	29%
Institute of Information Theory and Automation ASCR	199	1469	7.38	0.86	1.54	1.80	33%	22%
Brno University of Technology	183	237	1.30	0.65	0.37	0.57	64%	34%
Institute of Physics ASCR	172	338	1.97	0.59	0.35	0.60	52%	50%
Charles University in Prague	131	310	2.37	0.61	0.47	0.76	46%	47%
Institute of Photonics and Electronics ASCR	104	398	3.83	0.87	0.81	0.92	37%	34%
University of West Bohemia in Plzen	42	31	0.74	0.54	0.29	0.54	81%	35%
University of Pardubice	38	28	0.74	0.43	0.29	0.67	63%	62%
Institute of Chemical Technology Prague	36	25	0.69	0.25	0.17	0.65	67%	61%
Masaryk University	28	75	2.68	0.60	0.43	0.72	39%	34%

#### 8.4.16 Energy Science and Technology

Table 45 Main bibliometric indicators for Czech institutional sectors – Energy Science and Technology

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Research organizations	1161	3351	2.89	0.92	0.60	0.65	45%	54%
Universities	964	2174	2.26	0.79	0.48	0.61	51%	58%
Companies	212	503	2.37	0.99	0.64	0.65	50%	45%
Government	41	120	2.93	0.64	0.40	0.62	39%	34%
Hospitals	22	31	1.41	0.35	0.21	0.61	45%	42%

Table 46 Main bibliometric indicators for Czech scientific institutions – Energy Science and Technology

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Academy of Sciences (global)	1019	3055	3.00	0.94	0.63	0.67	44%	55%
Nuclear Physics Institute ASCR	400	842	2.11	0.67	0.39	0.58	45%	53%
Czech Technical University in Prague	320	676	2.11	0.79	0.44	0.56	52%	59%
Institute of Physics ASCR	292	1276	4.37	1.49	0.94	0.63	41%	62%
Charles University in Prague	277	905	3.27	1.12	0.63	0.57	42%	70%
Institute of Chemical Technology Prague	221	422	1.91	0.71	0.35	0.49	54%	52%
University of West Bohemia in Plzen	78	27	0.35	0.29	0.08	0.28	82%	73%
Nuclear Research Institute Rez	75	125	1.67	0.80	0.48	0.60	52%	42%
Brno University of Technology	65	192	2.95	0.68	0.79	1.16	43%	25%
VSB-Technical University of Ostrava	63	95	1.51	0.86	0.84	0.98	71%	21%
Institute of Rock Structure and Mechanics ASCR	61	87	1.43	0.51	0.49	0.97	67%	30%
National Radiation Protection Institute	59	57	0.97	0.79	0.26	0.32	61%	46%
Institute of Plasma Physics ASCR	54	77	1.43	0.89	0.75	0.85	65%	58%

#### 8.4.17 Environmental Sciences and Technology

Table 47 Main bibliometric indicators for Czech institutional sectors – Environmental Sciences and Technology

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	2125	12630	5.94	0.89	0.82	0.92	32%	26%
Research organizations	1895	14775	7.80	0.89	0.87	0.98	25%	28%
Companies	193	1101	5.70	0.93	0.76	0.82	33%	27%
Government	160	1647	10.29	1.04	1.11	1.07	23%	23%
Other	57	293	5.14	0.75	0.68	0.91	28%	25%
Hospitals	34	239	7.03	1.03	0.91	0.88	41%	15%

Table 48 Main bibliometric indicators for Czech scientific institutions – Environmental Sciences and Technology

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm / FCSm	%nc	%sc
Academy of Sciences (global)	1555	12319	7.92	0.89	0.87	0.99	24%	29%
Charles University in Prague	522	2854	5.47	0.85	0.89	1.05	36%	28%
University of South Bohemia in Ceske Budejovice	442	3669	8.30	0.93	0.99	1.07	22%	27%
Biology Centre ASCR	388	3978	10.25	0.89	0.86	0.97	15%	28%
Masaryk University	341	2121	6.22	1.04	1.04	1.00	29%	29%
Institute of Botany ASCR	308	2490	8.08	1.05	1.09	1.04	20%	25%
Institute of Chemical Technology Prague	254	1588	6.25	0.79	0.73	0.93	25%	20%
Mendel University in Brno	170	919	5.41	1.12	0.59	0.53	41%	32%
Institute of Systems Biology and Ecology ASCR	150	850	5.67	0.81	0.61	0.75	32%	30%
Czech University of Life Sciences Prague	120	492	4.10	1.03	0.78	0.75	44%	30%
Czech Technical University in Prague	118	354	3.00	0.63	0.47	0.75	46%	23%
Palacky University Olomouc	114	637	5.59	0.92	0.76	0.83	38%	22%
Czech Geological Survey	103	983	9.54	0.83	0.99	1.18	17%	35%
National Institute of Public Health and regional hygienic stations	98	1353	13.81	1.07	1.29	1.20	15%	22%
Institute of Vertebrate Biology ASCR	90	551	6.12	0.90	0.85	0.94	28%	38%
Institute of Chemical Process Fundamentals ASCR	83	500	6.02	0.52	0.66	1.27	22%	31%
Institute of Microbiology ASCR	82	442	5.39	0.79	0.78	0.98	23%	29%
J. Heyrovsky Institute of Physical Chemistry ASCR	65	709	10.91	0.83	1.41	1.69	15%	20%
Institute of Organic Chemistry and Biochemistry ASCR	62	381	6.15	0.74	0.51	0.69	19%	44%
Nuclear Physics Institute ASCR	62	185	2.98	0.67	0.40	0.60	44%	32%
Brno University of Technology	58	138	2.38	0.54	0.39	0.72	38%	23%
National Radiation Protection Institute	55	85	1.55	0.77	0.32	0.42	53%	38%

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<b>Institute</b>	<b>P</b>	<b>C-sc</b>	<b>CPP</b>	<b>CPP/ JCS m</b>	<b>CPP/ FCS m</b>	<b>JCSm / FCSm</b>	<b>%nc</b>	<b>%sc</b>
Crop Research Institute	50	178	3.56	0.58	0.49	0.84	28%	41%

#### 8.4.18 General and Industrial Engineering

Table 49 Main bibliometric indicators for Czech institutional sectors – General and Industrial Engineering

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	220	453	2.06	0.69	0.62	0.90	47%	34%
Research organizations	119	309	2.60	0.68	0.78	1.15	45%	35%
Companies	30	45	1.50	0.56	0.43	0.77	33%	20%

Table 50 Main bibliometric indicators for Czech scientific institutions – General and Industrial Engineering

Institute	P	C-sc	CPP	CPP/ JCS m	CPP/ FCS m	JCSm / FCSm	%nc	%sc
Academy of Sciences (global)	113	305	2.70	0.68	0.80	1.18	43%	34%
Czech Technical University in Prague	59	123	2.08	0.89	0.70	0.78	53%	39%
Brno University of Technology	41	86	2.10	0.71	0.55	0.78	46%	17%
VSB-Technical University of Ostrava	41	97	2.37	0.62	0.62	1.00	46%	34%
Charles University in Prague	38	89	2.34	0.66	0.78	1.17	45%	41%
Institute of Physics ASCR	21	76	3.62	0.95	1.44	1.51	52%	24%
Institute of Mathematics ASCR	19	43	2.26	0.40	0.54	1.35	58%	40%
University of West Bohemia in Plzen	16	38	2.38	0.66	0.66	1.00	31%	16%
Institute of Scientific Instruments ASCR	15	37	2.47	1.05	0.93	0.88	47%	34%
Institute of Physics of Materials ASCR	12	28	2.33	0.85	0.57	0.67	17%	48%
Institute of Thermomechanics ASCR	11	13	1.18	0.26	0.37	1.42	64%	35%

#### 8.4.19 Health Sciences

Table 51 Main bibliometric indicators for Czech institutional sectors – Health Sciences

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	185	853	4.61	0.66	0.51	0.78	32%	24%
Research organizations	89	418	4.70	0.60	0.51	0.85	26%	28%
Hospitals	69	365	5.29	0.56	0.59	1.06	28%	26%
Government	16	22	1.38	0.33	0.17	0.51	56%	15%
Companies	5	22	4.40	0.67	0.53	0.79	60%	19%

Table 52 Main bibliometric indicators for Czech scientific institutions – Health Sciences

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Charles University in Prague	135	724	5.36	0.72	0.56	0.78	28%	23%
Academy of Sciences (global)	58	274	4.72	0.57	0.50	0.88	24%	30%
Masaryk University	22	86	3.91	0.39	0.33	0.84	36%	36%
Institute of Computer Science ASCR	20	37	1.85	0.47	0.33	0.70	30%	21%
Prague Psychiatric Centre	20	133	6.65	0.54	0.52	0.97	15%	30%
Palacky University Olomouc	19	51	2.68	0.87	0.59	0.68	53%	14%
Institute for Postgraduate Medical Education	12	97	8.08	0.99	1.00	1.01	33%	28%
Institute of Experimental Medicine ASCR	11	86	7.82	0.77	0.96	1.25	27%	26%
Institute of Physiology ASCR	10	48	4.80	0.33	0.28	0.85	20%	38%
Faculty Hospital Na Bulovce	9	118	13.11	0.72	1.07	1.49	22%	27%



#### 8.4.20 History, Philosophy and Religion

Table 53 Main bibliometric indicators for Czech institutional sectors – History, Philosophy and Religion

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	356	113	0.32	0.59	0.26	0.45	80%	34%
Research organizations	235	140	0.60	0.82	0.43	0.53	73%	31%
Other	28	41	1.46	1.03	0.89	0.86	64%	23%
Hospitals	7	7	1.00	0.44	0.49	1.14	57%	36%
Government	5	2	0.40	0.43	0.25	0.59	80%	0%

Table 54 Main bibliometric indicators for Czech scientific institutions – History, Philosophy and Religion

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm / FCSm	%nc	%sc
Academy of Sciences (global)	217	134	0.62	0.91	0.47	0.51	73%	31%
Institute of Philosophy ASCR	165	51	0.31	1.23	0.28	0.23	78%	34%
Charles University in Prague	153	52	0.34	0.47	0.25	0.54	78%	36%
Masaryk University	82	29	0.35	0.70	0.30	0.43	76%	37%
Palacky University Olomouc	47	8	0.17	0.41	0.18	0.43	87%	11%
Institute of Archaeology ASCR	21	48	2.29	0.76	0.99	1.30	57%	24%
University of South Bohemia in Ceske Budejovice	20	2	0.10	0.60	0.19	0.31	90%	33%
VSB-Technical University of Ostrava	14	3	0.21	1.24	0.17	0.14	86%	67%
University of Economics Prague	13	4	0.31	1.09	0.19	0.18	77%	0%
University of West Bohemia in Plzen	10	3	0.30	0.47	0.50	1.06	70%	50%

#### 8.4.21 Information and Communication Sciences

Table 55 Main bibliometric indicators for Czech institutional sectors – Information and Communication Sciences

<b>Sector</b>	<b>P</b>	<b>C-sc</b>	<b>CPP</b>	<b>CPP/ JCSm</b>	<b>CPP/ FCSm</b>	<b>JCSm/ FCSm</b>	<b>%nc</b>	<b>%sc</b>
Universities	27	78	2.89	0.75	0.72	0.96	48%	24%
Government	6	18	3.00	0.73	0.94	1.29	50%	0%

Table 56 Main bibliometric indicators for Czech scientific institutions – Information and Communication Sciences

<b>Institute</b>	<b>P</b>	<b>C-sc</b>	<b>CPP</b>	<b>CPP/ JCSm</b>	<b>CPP/ FCSm</b>	<b>JCSm / FCSm</b>	<b>%nc</b>	<b>%sc</b>
Charles University in Prague	10	47	4.70	0.93	0.69	0.74	40%	22%
Masaryk University	7	3	0.43	0.33	0.52	1.59	86%	67%

#### 8.4.22 Instruments and Instrumentation

Table 57 Main bibliometric indicators for Czech institutional sectors – Instruments and Instrumentation

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Research organizations	765	3416	4.47	1.00	0.77	0.77	36%	54%
Universities	703	2749	3.91	0.91	0.82	0.90	39%	53%
Companies	50	271	5.42	1.39	1.03	0.74	32%	40%
Government	16	28	1.75	0.74	0.32	0.44	44%	50%
Hospitals	8	15	1.88	0.65	0.47	0.72	38%	52%

Table 58 Main bibliometric indicators for Czech scientific institutions – Instruments and Instrumentation

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm / FCSm	%nc	%sc
Academy of Sciences (global)	697	3243	4.65	1.02	0.80	0.78	35%	54%
Czech Technical University in Prague	296	984	3.32	1.07	0.91	0.85	46%	51%
Institute of Physics ASCR	234	1284	5.49	1.34	0.96	0.72	32%	65%
Charles University in Prague	215	904	4.20	1.08	0.77	0.71	31%	69%
Nuclear Physics Institute ASCR	149	312	2.09	0.63	0.37	0.59	45%	61%
Institute of Scientific Instruments ASCR	79	170	2.15	0.57	0.46	0.80	42%	51%
Institute of Photonics and Electronics ASCR	78	883	11.32	1.38	1.84	1.33	23%	22%
Masaryk University	75	600	8.00	0.94	1.14	1.21	31%	34%
Institute of Chemical Technology Prague	67	368	5.49	1.02	0.94	0.92	31%	32%
Brno University of Technology	59	150	2.54	0.64	0.64	0.99	47%	50%
Czech Metrology Institute	42	37	0.88	0.33	0.20	0.59	64%	57%

#### 8.4.23 Language and Linguistics

Table 59 Main bibliometric indicators for Czech institutional sectors – Language and Linguistics

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	27	24	0.89	0.49	0.55	1.12	81%	17%
Research organizations	11	19	1.73	0.96	0.70	0.73	73%	5%

Table 60 Main bibliometric indicators for Czech scientific institutions – Language and Linguistics

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm / FCSm	%nc	%sc
Charles University in Prague	13	6	0.46	0.20	0.19	0.94	77%	0%
Academy of Sciences (global)	10	4	0.40	0.27	0.19	0.69	80%	20%
Institute of the Czech Language ASCR	9	4	0.44	0.27	0.19	0.69	78%	0%
Masaryk University	9	2	0.22	2.64	0.48	0.18	89%	33%
Palacky University Olomouc	6	16	2.67	0.86	1.84	2.13	83%	24%

#### 8.4.24 Law and Criminology

Table 61 Main bibliometric indicators for Czech institutional sectors – Law and Criminology

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	47	181	3.85	0.73	0.71	0.98	34%	10%
Government	12	71	5.92	1.22	1.27	1.04	17%	24%
Hospitals	6	30	5.00	0.75	0.86	1.14	17%	14%
Research organizations	5	41	8.20	1.14	1.12	0.98	20%	18%

Table 62 Main bibliometric indicators for Czech scientific institutions – Law and Criminology

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm / FCSm	%nc	%sc
Charles University in Prague	28	103	3.68	0.87	0.78	0.89	29%	13%
Institute of Criminalistics Praha	11	70	6.36	1.21	1.41	1.17	18%	25%
Institute of Chemical Technology Prague	6	31	5.17	0.75	0.77	1.03	17%	9%
General University Hospital Prague	5	11	2.20	0.36	0.37	1.04	20%	21%
Masaryk University	5	15	3.00	0.88	0.73	0.83	60%	12%
Palacky University Olomouc	5	14	2.80	0.61	0.35	0.57	40%	13%

#### 8.4.25 Literature

Table 63 Main bibliometric indicators for Czech institutional sectors – Literature

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	224	34	0.15	0.99	0.78	0.79	90%	36%
Research organizations	91	18	0.20	1.05	0.98	0.94	86%	28%

Table 64 Main bibliometric indicators for Czech scientific institutions – Literature

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm / FCSm	%nc	%sc
Charles University in Prague	124	21	0.17	1.11	0.95	0.85	89%	40%
Academy of Sciences (global)	90	18	0.20	1.05	0.98	0.94	86%	28%
Institute of Czech Literature ASCR	81	17	0.21	1.12	1.08	0.96	85%	29%
Masaryk University	37	7	0.19	1.20	0.80	0.67	92%	22%
University of South Bohemia in Ceske Budejovice	20	2	0.10	0.90	0.67	0.74	90%	50%
Palacky University Olomouc	17	0	0.00	0.00	0.00	0.52	100%	
University of Ostrava	12	3	0.25	1.32	0.94	0.71	83%	25%
University of Hradec Kralove	7	0	0.00	0.00	0.00	1.11	100%	

#### 8.4.26 Management and Planning

Table 65 Main bibliometric indicators for Czech institutional sectors – Management and Planning

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	165	478	2.90	1.00	0.95	0.95	58%	27%
Research organizations	72	302	4.19	1.00	0.91	0.91	40%	24%
Companies	6	22	3.67	0.75	0.45	0.60	17%	8%

Table 66 Main bibliometric indicators for Czech scientific institutions – Management and Planning

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm / FCSm	%nc	%sc
Academy of Sciences (global)	69	301	4.36	1.01	0.93	0.92	39%	24%
Charles University in Prague	44	287	6.52	1.20	1.33	1.11	41%	26%
Institute of Information Theory and Automation ASCR	31	107	3.45	0.82	0.87	1.07	39%	26%
VSB-Technical University of Ostrava	18	68	3.78	0.99	0.84	0.85	33%	38%
Technical University of Liberec	18	5	0.28	0.41	0.20	0.48	78%	17%
Institute of Computer Science ASCR	17	75	4.41	0.88	0.77	0.88	29%	23%
Czech Technical University in Prague	14	19	1.36	0.42	0.42	0.98	43%	41%
University of Pardubice	13	0	0.00	0.00	0.00	0.18	100%	100%
University of Hradec Kralove	11	2	0.18	0.20	0.22	1.12	91%	78%
Institute of Mathematics ASCR	10	60	6.00	1.96	1.59	0.81	40%	34%
Masaryk University	9	1	0.11	0.38	0.23	0.60	89%	50%
University of Economics Prague	9	30	3.33	1.26	0.99	0.79	56%	3%

#### 8.4.27 Mathematics and Statistical Sciences

Table 67 Main bibliometric indicators for Czech institutional sectors – Mathematics and Statistical Sciences

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	3082	7382	2.40	0.97	0.81	0.83	51%	36%
Research organizations	1580	5680	3.59	1.15	0.98	0.85	43%	33%
Companies	14	13	0.93	0.27	0.22	0.82	50%	48%
Hospitals	6	2	0.33	0.15	0.09	0.60	67%	71%

Table 68 Main bibliometric indicators for Czech scientific institutions – Mathematics and Statistical Sciences

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Academy of Sciences (global)	1572	5679	3.61	1.15	0.99	0.86	42%	33%
Charles University in Prague	1498	3893	2.60	1.00	0.89	0.89	49%	35%
Institute of Mathematics ASCR	864	2494	2.89	1.12	1.00	0.89	46%	34%
Czech Technical University in Prague	323	695	2.15	0.97	0.65	0.67	56%	35%
Masaryk University	322	601	1.87	0.83	0.66	0.80	46%	41%
Palacky University Olomouc	268	460	1.72	0.97	0.74	0.76	61%	42%
Institute of Computer Science ASCR	245	1214	4.96	1.31	1.42	1.08	35%	29%
Institute of Information Theory and Automation ASCR	231	1198	5.19	1.40	1.17	0.84	33%	32%
University of West Bohemia in Plzen	201	620	3.08	1.26	1.10	0.88	53%	25%
VSB-Technical University of Ostrava	158	488	3.09	1.20	1.20	1.00	46%	40%
Brno University of Technology	145	202	1.39	0.57	0.39	0.68	58%	45%
Silesian University in Opava	88	227	2.58	0.91	0.82	0.90	40%	30%
Institute of Thermomechanics ASCR	64	90	1.41	0.60	0.35	0.58	69%	20%
Technical University of Liberec	52	73	1.40	0.87	0.57	0.65	63%	24%



#### 8.4.28 Mechanical Engineering and Aerospace

Table 69 Main bibliometric indicators for Czech institutional sectors – Mechanical Engineering and Aerospace

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	486	1185	2.44	0.72	0.53	0.73	48%	38%
Research organizations	408	1254	3.07	0.73	0.65	0.88	47%	33%
Companies	49	129	2.63	0.64	0.56	0.88	39%	32%
Hospitals	6	16	2.67	0.85	0.84	0.98	33%	30%

Table 70 Main bibliometric indicators for Czech scientific institutions – Mechanical Engineering and Aerospace

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm / FCSm	%nc	%sc
Academy of Sciences (global)	397	1193	3.01	0.71	0.63	0.88	47%	33%
Czech Technical University in Prague	168	254	1.51	0.55	0.34	0.62	58%	43%
Charles University in Prague	101	375	3.71	1.12	0.72	0.64	44%	37%
Brno University of Technology	88	294	3.34	0.92	0.79	0.87	35%	29%
Institute of Thermomechanics ASCR	83	127	1.53	0.51	0.35	0.68	54%	34%
Institute of Mathematics ASCR	63	105	1.67	0.47	0.35	0.74	68%	40%
Institute of Physics ASCR	50	268	5.36	1.01	0.93	0.92	30%	36%
Institute of Chemical Process Fundamentals ASCR	40	142	3.55	0.61	0.76	1.25	35%	26%
Institute of Theoretical and Applied Mechanics ASCR	34	103	3.03	0.74	0.61	0.83	44%	27%
Institute of Physics of Materials ASCR	34	161	4.74	1.54	1.03	0.67	26%	34%
Institute of Chemical Technology Prague	27	44	1.63	0.33	0.27	0.82	44%	59%
Institute of Hydrodynamics ASCR	27	90	3.33	0.71	0.77	1.10	48%	36%

#### 8.4.29 Multidisciplinary Journals

Table 71 Main bibliometric indicators for Czech institutional sectors – Multidisciplinary Journals

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Research organizations	239	5638	23.59	0.66	0.66	1.00	17%	22%
Universities	227	5843	25.74	0.73	0.87	1.19	24%	22%
Hospitals	14	578	41.29	1.49	1.23	0.83	7%	20%
Government	11	227	20.64	0.71	1.17	1.64	27%	17%
Other	7	3	0.43	0.08	0.01	0.09	71%	50%

Table 72 Main bibliometric indicators for Czech scientific institutions – Multidisciplinary Journals

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Academy of Sciences (global)	214	5354	25.02	0.65	0.71	1.10	17%	22%
Charles University in Prague	141	3588	25.45	0.63	0.81	1.29	16%	23%
Institute of Physiology ASCR	37	797	21.54	0.47	0.45	0.96	8%	22%
Palacky University Olomouc	25	1153	46.12	1.25	1.92	1.54	20%	16%
Masaryk University	23	800	34.78	1.43	1.72	1.20	30%	20%
University of South Bohemia in Ceske Budejovice	23	462	20.09	0.71	0.94	1.32	30%	22%
Biology Centre ASCR	21	577	27.48	0.74	0.97	1.31	14%	20%
Institute of Microbiology ASCR	19	528	27.79	0.58	0.67	1.17	11%	21%
Institute of Experimental Botany ASCR	17	667	39.24	1.51	1.83	1.21	18%	17%
Astronomical Institute ASCR	16	224	14.00	0.22	0.57	2.54	6%	40%
Institute of Organic Chemistry and Biochemistry ASCR	16	339	21.19	0.68	0.87	1.29	25%	33%

#### 8.4.30 Physics and Materials Science

Table 73 Main bibliometric indicators for Czech institutional sectors – Physics and Materials Science

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Research organizations	12120	73028	6.03	0.89	0.82	0.93	34%	38%
Universities	11551	50954	4.41	0.80	0.65	0.81	40%	39%
Companies	705	2190	3.11	1.04	0.60	0.58	50%	35%
Government	59	109	1.85	0.69	0.24	0.36	58%	51%
Hospitals	36	73	2.03	0.85	0.50	0.58	53%	35%
Other	19	25	1.32	0.81	0.25	0.31	63%	24%

Table 74 Main bibliometric indicators for Czech scientific institutions – Physics and Materials Science

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm / FCSm	%nc	%sc
Academy of Sciences (global)	11954	72658	6.08	0.89	0.83	0.93	34%	38%
Institute of Physics ASCR	6012	37288	6.20	0.85	0.82	0.97	33%	39%
Charles University in Prague	4807	25921	5.39	0.80	0.72	0.91	35%	41%
Czech Technical University in Prague	1893	6060	3.20	0.83	0.54	0.65	47%	41%
Nuclear Physics Institute ASCR	1413	9244	6.54	1.01	0.87	0.86	34%	41%
Institute of Chemical Technology Prague	1068	3402	3.19	0.70	0.49	0.70	40%	44%
Masaryk University	1065	5728	5.38	0.88	0.77	0.88	37%	29%
J. Heyrovsky Institute of Physical Chemistry ASCR	1033	9940	9.62	0.95	1.02	1.07	21%	33%
Institute of Physics of Materials ASCR	879	3972	4.52	0.80	0.71	0.89	37%	35%
Palacky University Olomouc	763	3612	4.73	0.75	0.66	0.89	37%	34%
Brno University of Technology	759	1935	2.55	0.70	0.46	0.65	47%	39%
University of Pardubice	647	2412	3.73	0.77	0.59	0.76	36%	40%
Institute of Plasma Physics ASCR	517	1644	3.18	0.95	0.47	0.49	49%	47%
Institute of Macromolecular Chemistry ASCR	476	3023	6.35	0.93	0.96	1.03	31%	34%
Institute of Organic Chemistry and Biochemistry ASCR	389	3830	9.85	1.54	1.78	1.16	23%	30%
Institute of Inorganic Chemistry ASCR	385	1240	3.22	0.65	0.54	0.84	39%	41%
Institute of Chemical Process Fundamentals ASCR	358	1913	5.34	0.71	0.68	0.97	26%	43%
Institute of Photonics and Electronics ASCR	356	1398	3.93	0.71	0.63	0.89	40%	31%
VSB-Technical University of Ostrava	339	704	2.08	0.77	0.44	0.56	63%	33%
Technical University of Liberec	276	705	2.55	0.88	0.48	0.54	56%	41%
University of West Bohemia in Plzen	262	2180	8.32	1.94	1.59	0.82	33%	22%
Institute of Scientific Instruments ASCR	175	621	3.55	0.84	0.50	0.59	40%	42%
University of South Bohemia in Ceske	166	336	2.02	0.86	0.53	0.63	57%	37%

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Institute	P	C-sc	CPP	CPP/ JCS m	CPP/ FCS m	JCSm / FCSm	%nc	%sc
Budejovice								
Institute of Thermomechanics ASCR	158	485	3.07	0.71	0.54	0.76	47%	32%
Silesian University in Opava	154	396	2.57	0.37	0.31	0.84	40%	54%
Jan Evangelista Purkyně University in Ústí nad Labem	137	391	2.85	0.64	0.49	0.77	46%	47%
ASCR unresolved	134	694	5.18	0.79	0.63	0.79	28%	36%
Tomas Bata University in Zlín	113	311	2.75	1.13	0.73	0.65	46%	33%
Institute of Mathematics ASCR	110	357	3.25	0.74	0.51	0.69	47%	40%
VUK Panenské Břežany	74	98	1.32	0.62	0.32	0.52	62%	42%
Czech Metrology Institute	67	74	1.10	0.41	0.23	0.55	55%	55%
Nuclear Research Institute Řež	66	114	1.73	0.74	0.44	0.59	52%	38%
Institute of Rock Structure and Mechanics ASCR	61	105	1.72	0.36	0.28	0.77	52%	40%
University of Hradec Králové	57	251	4.40	0.62	0.61	0.99	40%	34%
CRYTUR Ltd	57	380	6.67	1.59	1.00	0.63	19%	50%
Institute of Systems Biology and Ecology ASCR	54	73	1.35	0.66	0.44	0.67	61%	47%
SKODA AUTO	51	141	2.76	0.80	0.46	0.58	39%	17%

#### 8.4.31 Political Science and Public Administration

Table 75 Main bibliometric indicators for Czech institutional sectors – Political Science and Public Administration

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	490	297	0.61	0.88	0.11	0.13	70%	28%
Research organizations	145	129	0.89	0.69	0.18	0.26	60%	22%
Government	125	115	0.92	1.47	0.16	0.11	60%	29%
Companies	49	32	0.65	1.00	0.10	0.10	67%	30%
Other	9	0	0.00	0.00	0.00	0.10	100%	

Table 76 Main bibliometric indicators for Czech scientific institutions – Political Science and Public Administration

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm / FCSm	%nc	%sc
University of Economics Prague	317	160	0.50	0.82	0.09	0.11	69%	35%
Charles University in Prague	104	109	1.05	1.30	0.22	0.17	67%	16%
Czech National Bank	94	99	1.05	1.87	0.17	0.09	59%	28%
Academy of Sciences (global)	78	52	0.67	0.43	0.12	0.29	63%	29%
CERGE-Economics Institute ASCR	39	19	0.49	0.60	0.07	0.12	67%	21%
Masaryk University	34	10	0.29	0.35	0.08	0.23	79%	41%
KOMERCNI BANKA AS	24	22	0.92	1.54	0.13	0.09	63%	29%
VSB-Technical University of Ostrava	20	9	0.45	0.86	0.08	0.09	65%	18%
Institute of Sociology ASCR	19	23	1.21	0.57	0.36	0.64	47%	36%
Institute of International Relations	14	15	1.07	0.98	0.57	0.58	57%	25%
ASCR unresolved	13	8	0.62	0.18	0.10	0.57	69%	11%

#### 8.4.32 Psychology

Table 77 Main bibliometric indicators for Czech institutional sectors – Psychology

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	479	990	2.07	0.85	0.25	0.29	58%	30%
Research organizations	300	1123	3.74	1.00	0.38	0.37	49%	25%
Hospitals	157	371	2.36	1.06	0.23	0.22	69%	29%
Government	34	90	2.65	0.98	0.32	0.32	47%	37%
Companies	7	10	1.43	0.66	0.11	0.17	86%	41%

Table 78 Main bibliometric indicators for Czech scientific institutions – Psychology

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Charles University in Prague	282	675	2.39	0.88	0.27	0.31	58%	32%
Academy of Sciences (global)	274	1087	3.97	1.06	0.40	0.38	47%	24%
Institute of Psychology ASCR	210	559	2.66	1.75	0.29	0.16	53%	27%
Masaryk University	110	160	1.45	0.99	0.22	0.22	57%	21%
Prague Psychiatric Centre	66	107	1.62	0.77	0.17	0.21	64%	42%
University of South Bohemia in Ceske Budejovice	34	65	1.91	0.71	0.24	0.35	62%	36%
Institute of Physiology ASCR	32	291	9.09	0.69	0.64	0.93	16%	23%
Palacky University Olomouc	30	19	0.63	0.77	0.10	0.13	77%	27%
National Institute of Public Health and regional hygienic stations	25	85	3.40	1.05	0.42	0.40	40%	36%
General University Hospital Prague	19	3	0.16	0.13	0.02	0.15	84%	82%
ASCR unresolved	15	193	12.87	1.22	1.14	0.93	33%	18%

#### 8.4.33 Social and Behavioral Sciences, Interdisciplinary

Table 79 Main bibliometric indicators for Czech institutional sectors – Social and Behavioral Sciences, Interdisciplinary

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	61	174	2.85	0.52	0.52	1.01	30%	16%
Research organizations	20	90	4.50	0.82	0.82	1.00	25%	21%

Table 80 Main bibliometric indicators for Czech scientific institutions – Social and Behavioral Sciences, Interdisciplinary

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm / FCSm	%nc	%sc
Charles University in Prague	47	115	2.45	0.50	0.43	0.86	26%	15%
Academy of Sciences (global)	16	88	5.50	0.86	0.89	1.03	19%	21%
Masaryk University	10	36	3.60	0.56	0.97	1.72	40%	16%
CERGE-Economics Institute ASCR	7	74	10.57	0.87	1.29	1.50	0%	22%

#### 8.4.34 Sociology and Anthropology

Table 81 Main bibliometric indicators for Czech institutional sectors – Sociology and Anthropology

Sector	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Universities	361	443	1.23	0.66	0.22	0.34	59%	21%
Research organizations	252	390	1.55	0.99	0.32	0.33	48%	28%
Other	17	49	2.88	0.79	0.49	0.62	53%	23%
Government	14	14	1.00	0.47	0.16	0.34	50%	26%
Hospitals	7	10	1.43	0.24	0.20	0.84	29%	33%
Companies	6	7	1.17	1.35	0.18	0.13	67%	0%

Table 82 Main bibliometric indicators for Czech scientific institutions – Sociology and Anthropology

Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Academy of Sciences (global)	228	322	1.41	0.95	0.29	0.31	49%	31%
Charles University in Prague	181	243	1.34	0.72	0.23	0.32	62%	19%
Institute of Sociology ASCR	176	179	1.02	1.08	0.21	0.19	49%	37%
Masaryk University	101	105	1.04	0.80	0.19	0.24	50%	25%
University of West Bohemia in Plzen	23	32	1.39	0.71	0.64	0.90	61%	24%
Palacky University Olomouc	22	7	0.32	0.29	0.07	0.23	77%	22%
Institute of Archaeology ASCR	22	83	3.77	0.82	0.91	1.10	45%	19%
Czech University of Life Sciences Prague	13	29	2.23	0.28	0.30	1.06	23%	34%
National Museum	11	35	3.18	1.36	0.73	0.54	55%	10%
University of Ostrava	10	2	0.20	0.39	0.04	0.10	90%	33%
ASCR unresolved	7	13	1.86	0.71	0.23	0.33	14%	41%
Institute of Philosophy ASCR	7	1	0.14	0.24	0.03	0.14	86%	50%



## Appendix A - Field Composition

Field	Journal Subject Category
AGRICULTURE AND FOOD SCIENCE	AGRICULTURAL ENGINEERING AGRICULTURAL EXPERIMENT STATION REPORTS AGRICULTURE, DAIRY & ANIMAL SCIENCE AGRICULTURE, MULTIDISCIPLINARY AGRONOMY FOOD SCIENCE & TECHNOLOGY NUTRITION & DIETETICS SOIL SCIENCE
ASTRONOMY AND ASTROPHYSICS	ASTRONOMY & ASTROPHYSICS
BASIC LIFE SCIENCES	BIOCHEMICAL RESEARCH METHODS BIOCHEMISTRY & MOLECULAR BIOLOGY BIOPHYSICS BIOTECHNOLOGY & APPLIED MICROBIOLOGY CELL & TISSUE ENGINEERING CELL BIOLOGY DEVELOPMENTAL BIOLOGY GENETICS & HEREDITY MICROBIOLOGY REPRODUCTIVE BIOLOGY
BASIC MEDICAL SCIENCES	CHEMISTRY, MEDICINAL ENGINEERING, BIOMEDICAL MATERIALS SCIENCE, BIOMATERIALS MEDICAL INFORMATICS
BIOLOGICAL SCIENCES	BEHAVIORAL SCIENCES BIOLOGY ENTOMOLOGY EVOLUTIONARY BIOLOGY FISHERIES HORTICULTURE MARINE & FRESHWATER BIOLOGY MATHEMATICAL & COMPUTATIONAL BIOLOGY MYCOLOGY ORNITHOLOGY PLANT SCIENCES ZOOLOGY
BIOMEDICAL SCIENCES	ANATOMY & MORPHOLOGY IMMUNOLOGY INTEGRATIVE & COMPLEMENTARY MEDICINE MEDICAL LABORATORY TECHNOLOGY MEDICINE, RESEARCH & EXPERIMENTAL NEUROIMAGING NEUROSCIENCES PHARMACOLOGY & PHARMACY PHYSIOLOGY RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING TOXICOLOGY VIROLOGY
CHEMISTRY AND CHEMICAL ENGINEERING	CHEMISTRY, ANALYTICAL CHEMISTRY, APPLIED CHEMISTRY, INORGANIC & NUCLEAR CHEMISTRY, MULTIDISCIPLINARY CHEMISTRY, ORGANIC CHEMISTRY, PHYSICAL ELECTROCHEMISTRY ENGINEERING, CHEMICAL MATERIALS SCIENCE, PAPER & WOOD MATERIALS SCIENCE, TEXTILES POLYMER SCIENCE SPECTROSCOPY

Field	Journal Subject Category
CIVIL ENGINEERING AND CONSTRUCTION	CONSTRUCTION & BUILDING TECHNOLOGY ENGINEERING, CIVIL
CLINICAL MEDICINE	ALLERGY ANDROLOGY ANESTHESIOLOGY CARDIAC & CARDIOVASCULAR SYSTEMS CLINICAL NEUROLOGY CRITICAL CARE MEDICINE DENTISTRY, ORAL SURGERY & MEDICINE DERMATOLOGY EMERGENCY MEDICINE ENDOCRINOLOGY & METABOLISM GASTROENTEROLOGY & HEPATOLOGY HEMATOLOGY INFECTIOUS DISEASES MEDICINE, GENERAL & INTERNAL OBSTETRICS & GYNECOLOGY ONCOLOGY OPHTHALMOLOGY ORTHOPEDICS OTORHINOLARYNGOLOGY PARASITOLOGY PATHOLOGY PEDIATRICS PERIPHERAL VASCULAR DISEASE PSYCHIATRY PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH RESPIRATORY SYSTEM RHEUMATOLOGY SURGERY TRANSPLANTATION TROPICAL MEDICINE UROLOGY & NEPHROLOGY VETERINARY SCIENCES
COMPUTER SCIENCES	ARTIFICIAL INTELLIGENCE CYBERNETICS HARDWARE & ARCHITECTURE INFORMATION SYSTEMS INTERDISCIPLINARY APPLICATIONS SOFTWARE ENGINEERING THEORY & METHODS
CREATIVE ARTS, CULTURE AND MUSIC	ARCHITECTURE ART ASIAN STUDIES CLASSICS DANCE FILM, RADIO, TELEVISION FOLKLORE HUMANITIES, MULTIDISCIPLINARY MUSIC THEATER
EARTH SCIENCES AND TECHNOLOGY	ENGINEERING, GEOLOGICAL ENGINEERING, MARINE ENGINEERING, OCEAN GEOCHEMISTRY & GEOPHYSICS GEOGRAPHY, PHYSICAL GEOLOGY GEOSCIENCES, MULTIDISCIPLINARY IMAGING SCIENCE & PHOTOGRAPHIC TECHNOLOGY METEOROLOGY & ATMOSPHERIC SCIENCES MINERALOGY OCEANOGRAPHY PALEONTOLOGY REMOTE SENSING
ECONOMICS AND BUSINESS	AGRICULTURAL ECONOMICS & POLICY BUSINESS BUSINESS, FINANCE

Field	Journal Subject Category
	ECONOMICS INDUSTRIAL RELATIONS & LABOR
EDUCATIONAL SCIENCES	EDUCATION & EDUCATIONAL RESEARCH EDUCATION, SCIENTIFIC DISCIPLINES EDUCATION, SPECIAL PSYCHOLOGY, EDUCATIONAL
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	AUTOMATION & CONTROL SYSTEMS ENGINEERING, ELECTRICAL & ELECTRONIC ROBOTICS TELECOMMUNICATIONS TRANSPORTATION TRANSPORTATION SCIENCE & TECHNOLOGY
ENERGY SCIENCE AND TECHNOLOGY	ENERGY & FUELS ENGINEERING, PETROLEUM MINING & MINERAL PROCESSING NUCLEAR SCIENCE & TECHNOLOGY
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	BIODIVERSITY CONSERVATION ECOLOGY ENGINEERING, ENVIRONMENTAL ENVIRONMENTAL SCIENCES ENVIRONMENTAL STUDIES FORESTRY GEOGRAPHY LIMNOLOGY URBAN STUDIES WATER RESOURCES
GENERAL AND INDUSTRIAL ENGINEERING	ENGINEERING, INDUSTRIAL ENGINEERING, MANUFACTURING ENGINEERING, MULTIDISCIPLINARY ERGONOMICS
HEALTH SCIENCES	GERIATRICS & GERONTOLOGY GERONTOLOGY HEALTH CARE SCIENCES & SERVICES HEALTH POLICY & SERVICES NURSING REHABILITATION SOCIAL WORK SPORT SCIENCES SUBSTANCE ABUSE
HISTORY, PHILOSOPHY AND RELIGION	ARCHAEOLOGY ETHICS HISTORY HISTORY & PHILOSOPHY OF SCIENCE HISTORY OF SOCIAL SCIENCES MEDICAL ETHICS MEDIÆVAL & RENAISSANCE STUDIES PHILOSOPHY RELIGION
INFORMATION AND COMMUNICATION SCIENCES	COMMUNICATION INFORMATION SCIENCE & LIBRARY SCIENCE
INSTRUMENTS AND INSTRUMENTATION	INSTRUMENTS & INSTRUMENTATION MICROSCOPY
LANGUAGE AND LINGUISTICS	LANGUAGE & LINGUISTICS LINGUISTICS
LAW AND CRIMINOLOGY	CRIMINOLOGY & PENOLOGY LAW MEDICINE, LEGAL
LITERATURE	LITERARY REVIEWS LITERARY THEORY & CRITICISM LITERATURE LITERATURE, AFRICAN, AUSTRALIAN, CANADIAN

Field	Journal Subject Category
	LITERATURE, AMERICAN LITERATURE, BRITISH ISLES LITERATURE, GERMAN, DUTCH, SCANDINAVIAN LITERATURE, ROMANCE LITERATURE, SLAVIC POETRY
MANAGEMENT AND PLANNING	MANAGEMENT OPERATIONS RESEARCH & MANAGEMENT SCIENCE PLANNING & DEVELOPMENT
MATHEMATICS & STATISTICAL SCIENCES	MATHEMATICS MATHEMATICS, APPLIED MATHEMATICS, INTERDISCIPLINARY APPLICATIONS STATISTICS & PROBABILITY
MECHANICAL ENGINEERING AND AEROSPACE	ACOUSTICS ENGINEERING, AEROSPACE MECHANICS
MULTIDISCIPLINARY JOURNALS	MULTIDISCIPLINARY SCIENCES
PHYSICS AND MATERIALS SCIENCE	CRYSTALLOGRAPHY ENGINEERING, MECHANICAL MATERIALS SCIENCE, CERAMICS MATERIALS SCIENCE, CHARACTERIZATION & TESTING MATERIALS SCIENCE, COATINGS & FILMS MATERIALS SCIENCE, COMPOSITES MATERIALS SCIENCE, MULTIDISCIPLINARY METALLURGY & METALLURGICAL ENGINEERING NANOSCIENCE & NANOTECHNOLOGY OPTICS PHYSICS, APPLIED PHYSICS, ATOMIC, MOLECULAR & CHEMICAL PHYSICS, CONDENSED MATTER PHYSICS, FLUIDS & PLASMAS PHYSICS, MATHEMATICAL PHYSICS, MULTIDISCIPLINARY PHYSICS, NUCLEAR PHYSICS, PARTICLES & FIELDS THERMODYNAMICS
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	INTERNATIONAL RELATIONS POLITICAL SCIENCE PUBLIC ADMINISTRATION
PSYCHOLOGY	PSYCHOLOGY, APPLIED PSYCHOLOGY, BIOLOGICAL PSYCHOLOGY, CLINICAL PSYCHOLOGY, DEVELOPMENTAL PSYCHOLOGY, EXPERIMENTAL PSYCHOLOGY, MATHEMATICAL PSYCHOLOGY, MULTIDISCIPLINARY PSYCHOLOGY, PSYCHOANALYSIS PSYCHOLOGY, SOCIAL
SOCIAL AND BEHAVIORAL SCIENCES, INTERDISCIPLINARY	DEMOGRAPHY SOCIAL ISSUES SOCIAL SCIENCES, BIOMEDICAL SOCIAL SCIENCES, INTERDISCIPLINARY SOCIAL SCIENCES, MATHEMATICAL METHODS
SOCIOLOGY AND ANTHROPOLOGY	ANTHROPOLOGY AREA STUDIES ETHNIC STUDIES FAMILY STUDIES HOSPITALITY, LEISURE, SPORT & TOURISM SOCIOLOGY WOMEN'S STUDIES

## Appendix B - General indicators for the main Czech institutions

English name	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Charles University in Prague	21775	129579	5.95	0.87	0.65	0.75	35%	32%
Institute of Physics ASCR	6502	38997	6.00	0.83	0.79	0.95	34%	40%
Masaryk University	6101	30928	5.07	0.89	0.60	0.67	36%	32%
Institute of Chemical Technology Prague	4483	20013	4.46	0.78	0.43	0.54	37%	34%
Czech Technical University in Prague	3632	10492	2.89	0.81	0.55	0.67	50%	37%
Palacky University Olomouc	3341	16813	5.03	0.92	0.64	0.70	41%	29%
J. Heyrovsky Institute of Physical Chemistry ASCR	2724	29758	10.92	0.97	0.96	1.00	21%	32%
Biology Centre ASCR	2705	17489	6.47	0.88	0.68	0.78	25%	33%
University of South Bohemia in Ceske Budejovice	2698	14202	5.26	0.90	0.74	0.83	34%	31%
Institute of Organic Chemistry and Biochemistry ASCR	2652	20000	7.54	0.90	0.66	0.74	25%	36%
Institute of Macromolecular Chemistry ASCR	2137	15760	7.37	0.85	0.77	0.91	26%	32%
Institute of Microbiology ASCR	2079	15331	7.37	0.75	0.52	0.69	22%	30%
University of Pardubice	2061	9616	4.67	0.86	0.58	0.67	36%	36%
Institute of Physiology ASCR	2060	17322	8.41	0.64	0.51	0.79	24%	32%
Nuclear Physics Institute ASCR	1881	10408	5.53	0.94	0.74	0.79	37%	42%
Brno University of Technology	1812	4421	2.44	0.66	0.39	0.60	52%	36%
University of Veterinary and Pharmaceutical Sciences Brno	1445	3466	2.40	0.92	0.49	0.53	43%	36%
Mendel University in Brno	1355	4080	3.01	0.90	0.46	0.51	43%	41%
Czech University of Life Sciences Prague	1278	3091	2.42	0.99	0.43	0.44	48%	34%
Institute of Chemical Process Fundamentals ASCR	1262	6458	5.12	0.67	0.56	0.84	30%	39%
Institute of Molecular Genetics ASCR	1166	13582	11.65	0.77	0.65	0.85	20%	28%
Institute of Biophysics ASCR	1125	13830	12.29	0.99	0.92	0.93	19%	36%
VSB-Technical University of Ostrava	1041	2446	2.35	0.88	0.49	0.55	56%	34%
Institute of Mathematics ASCR	1038	3283	3.16	1.11	0.92	0.83	45%	33%
Astronomical Institute ASCR	1028	5219	5.08	0.53	0.42	0.79	32%	38%
Institute of Inorganic Chemistry ASCR	1007	4024	4.00	0.61	0.48	0.79	35%	44%
National Institute of Public Health and regional hygienic stations	994	8394	8.44	0.96	0.74	0.78	23%	27%
Institute of Botany ASCR	983	5522	5.62	0.93	0.75	0.80	25%	31%
Institute of Experimental Medicine ASCR	964	10272	10.66	0.90	0.70	0.78	19%	29%
Institute of Physics of Materials ASCR	926	4161	4.49	0.81	0.70	0.86	37%	35%
Institute for Clinical and Experimental Medicine	908	9562	10.53	1.18	0.93	0.79	27%	18%
University of West Bohemia in Plzen	867	3252	3.75	1.42	0.94	0.66	58%	28%

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English name	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Institute of Experimental Botany ASCR	845	8314	9.84	1.03	0.84	0.82	21%	28%
Veterinary Research Institute	777	3946	5.08	0.99	0.71	0.71	32%	39%
Institute of Information Theory and Automation ASCR	769	3596	4.68	1.09	1.06	0.97	42%	27%
Institute of Animal Physiology and Genetics ASCR	755	5123	6.79	0.89	0.57	0.64	22%	34%
Crop Research Institute	675	1908	2.83	0.95	0.44	0.46	42%	35%
General University Hospital Prague	657	4873	7.42	1.08	0.71	0.66	35%	20%
University Hospital Brno	631	3620	5.74	1.01	0.57	0.56	35%	15%
University Hospital Motol	626	4424	7.07	0.95	0.69	0.73	32%	21%
Institute of Systems Biology and Ecology ASCR	614	3223	5.25	0.98	0.59	0.60	32%	31%
University of Defense	604	2763	4.57	0.93	0.48	0.51	39%	45%
Institute of Computer Science ASCR	602	2616	4.35	1.07	0.86	0.80	44%	28%
Institute of Animal Science	591	2381	4.03	0.84	0.53	0.63	34%	28%
Institute of Hematology and Blood Transfusion	583	3917	6.72	0.69	0.44	0.63	28%	31%
Institute of Plasma Physics ASCR	561	1768	3.15	0.91	0.45	0.49	49%	46%
University of Economics Prague	553	522	0.94	0.86	0.18	0.21	68%	25%
Institute of Analytical Chemistry ASCR	542	4763	8.79	0.71	0.73	1.03	19%	26%
Institute of Vertebrate Biology ASCR	534	2932	5.49	1.22	0.87	0.71	30%	31%
Czech Geological Survey	525	3415	6.50	0.96	0.91	0.95	29%	29%
Institute of Geophysics ASCR	524	2475	4.72	0.79	0.46	0.58	29%	38%
Institute of Photonics and Electronics ASCR	510	2889	5.66	0.98	0.85	0.88	40%	26%
Tomas Bata University in Zlin	487	1208	2.48	0.71	0.52	0.73	50%	38%
ASCR unresolved	482	3621	7.51	0.93	0.73	0.78	33%	26%
University Hospital Hradec Kralove	479	3013	6.29	1.37	0.72	0.53	39%	17%
Technical University of Liberec	478	1086	2.27	0.79	0.49	0.62	55%	39%
Institute of Atmospheric Physics ASCR	478	1698	3.55	0.84	0.42	0.50	36%	41%
University Hospital Olomouc	453	1792	3.96	0.86	0.44	0.51	47%	19%
Institute of Geology ASCR	385	1319	3.43	0.76	0.52	0.69	39%	35%
Institute of Endocrinology	344	2514	7.31	0.82	0.45	0.55	19%	25%
National Museum	326	596	1.83	0.69	0.39	0.57	53%	60%
Silesian University in Opava	323	774	2.40	0.51	0.41	0.80	43%	46%
Jan Evangelista Purkyne University in Usti nad Labem	313	945	3.02	0.72	0.51	0.70	51%	35%
Institute of Thermomechanics ASCR	309	621	2.01	0.58	0.39	0.68	56%	36%
Masaryk Memorial Cancer Institute	305	4896	16.05	1.34	1.14	0.85	20%	17%
University Hospital in Plzen	297	1590	5.35	1.00	0.61	0.61	35%	15%
Institute of Scientific Instruments ASCR	282	1134	4.02	0.74	0.55	0.74	39%	40%
Na Homolce Hospital	272	2151	7.91	1.21	0.82	0.68	34%	16%
Institute of Rock Structure and Mechanics ASCR	247	536	2.17	0.56	0.32	0.57	51%	34%
University of Ostrava	246	899	3.65	0.90	0.69	0.77	49%	30%

Bibliometric Analysis of the Czech Republic Research Output in an International Context – Institutional Analysis / Annex 8 to the Second Interim Report

English name	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
CERGE-Economics Institute ASCR	233	708	3.04	0.77	0.51	0.65	46%	18%
St. Anne's University Hospital Brno	227	1269	5.59	1.06	0.53	0.50	43%	14%
Institute of Psychology ASCR	222	570	2.57	1.66	0.27	0.16	53%	27%
Prague Psychiatric Centre	222	1397	6.29	1.01	0.57	0.56	41%	20%
Institute of Sociology ASCR	213	233	1.09	1.03	0.22	0.22	49%	36%
Czech National Bank	211	202	0.96	1.31	0.18	0.13	62%	25%
University Hospital Kralovske Vinohrady	200	1606	8.03	1.15	0.82	0.71	38%	16%
Zentiva	192	709	3.69	0.79	0.30	0.38	34%	32%
Institute of Philosophy ASCR	178	56	0.31	1.09	0.23	0.21	78%	35%
Research Institute of Organic Syntheses	177	614	3.47	0.76	0.41	0.53	40%	48%
Institute for Postgraduate Medical Education	173	1464	8.46	1.14	0.62	0.54	36%	20%
Nuclear Research Institute Rez	168	298	1.77	0.73	0.38	0.53	51%	47%
Faculty Hospital Na Bulovce	167	1233	7.38	0.98	0.62	0.63	41%	18%
University Hospital Ostrava	165	1256	7.61	1.39	0.76	0.55	48%	14%
University of Hradec Kralove	165	413	2.50	0.69	0.50	0.73	59%	35%
State Veterinary Administration of the Czech Republic	162	668	4.12	1.18	0.75	0.64	24%	46%
Teva Czech Industries	158	651	4.12	0.63	0.30	0.47	33%	41%
Institute of Rheumatology	152	3882	25.54	1.91	1.91	1.00	16%	16%
Central Military Hospital Prague	149	849	5.70	1.20	0.61	0.50	43%	13%
Research Institute for Cattle Breeding	145	217	1.50	1.00	0.25	0.25	49%	38%
VUC Praha	135	34	0.25	0.84	0.03	0.04	82%	61%
Thomayer University Hospital	133	550	4.14	1.01	0.41	0.41	50%	13%
Czech Hydrometeorological Institute	127	814	6.41	1.07	0.82	0.77	33%	30%
Institute of Hydrodynamics ASCR	125	406	3.25	0.63	0.47	0.74	46%	28%
Military Geography and Hydrometeorology Office Dobruska	124	212	1.71	0.60	0.20	0.33	48%	54%
Czech Metrology Institute	120	162	1.35	0.52	0.28	0.54	56%	49%
Institute of Geonics ASCR	114	267	2.34	0.61	0.48	0.77	58%	35%
Institute of Theoretical and Applied Mechanics ASCR	107	277	2.59	0.45	0.41	0.92	39%	32%
Moravian Museum	102	234	2.29	0.76	0.32	0.42	43%	37%
National Radiation Protection Institute	96	421	4.39	1.25	0.64	0.51	44%	25%





## Appendix C - Temporal evolution of production for the main Czech institutions – year by year

<b>Institute</b>	<b>P</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
Academy of Sciences (global)	38948	9	1730	1781	1978	1964	2096	2077	2157	2259	2322	2524	2449	2856	2926	2940	3393	3487
Charles University in Prague	21775	4	644	688	811	900	922	992	1067	1123	1233	1414	1444	1761	1762	2031	2427	2552
Institute of Physics ASCR	6502	3	238	303	303	322	367	381	418	386	457	437	428	480	487	434	517	541
Masaryk University	6101	1	134	170	203	224	252	263	297	347	354	424	437	487	520	582	688	718
Institute of Chemical Technology Prague	4483		170	199	231	232	227	250	196	254	284	295	306	329	333	360	405	412
Czech Technical University in Prague	3632	1	98	93	111	113	137	137	154	161	213	251	252	335	336	317	437	486
Palacky University Olomouc	3341		60	78	106	106	114	128	137	175	198	202	225	249	288	320	448	507
J. Heyrovsky Institute of Physical Chemistry ASCR	2724		131	147	163	154	197	154	166	184	177	224	165	169	173	137	184	199
Biology Centre ASCR	2705		143	116	121	138	132	142	173	148	152	155	168	209	210	196	244	258
University of South Bohemia in Ceske Budejovice	2698		36	38	40	59	79	97	118	112	145	176	171	237	251	301	381	457
Institute of Organic Chemistry and Biochemistry ASCR	2652		121	92	136	120	125	115	108	137	139	149	163	212	221	238	299	277
Institute of Macromolecular Chemistry ASCR	2137		102	91	143	97	116	111	133	142	146	124	139	149	163	149	166	166
Institute of Microbiology ASCR	2079		114	85	130	114	135	103	109	125	124	148	135	125	139	140	169	184
University of Pardubice	2061		92	85	73	101	93	85	113	99	111	121	129	146	161	202	215	235
Institute of Physiology ASCR	2060		102	99	131	144	134	110	113	129	105	142	143	118	128	130	159	173
Nuclear Physics Institute ASCR	1881		76	100	95	95	113	103	119	118	101	127	120	148	140	142	137	147
Brno University of Technology	1812		47	60	76	72	82	94	109	89	90	101	99	147	148	148	215	235
University of Veterinary and Pharmaceutical Sciences Brno	1445		35	40	29	35	57	36	41	67	86	94	89	118	147	188	201	182
Mendel University in Brno	1355		45	22	54	42	46	57	70	73	81	97	93	101	98	118	181	177
Czech University of Life Sciences Prague	1278		24	55	44	56	57	44	46	57	55	65	66	99	64	95	250	201
Institute of Chemical Process Fundamentals	1262	1	75	66	63	65	59	69	73	82	68	77	67	98	96	99	98	106

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Institute	P	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
ASCR																		
Institute of Molecular Genetics ASCR	1166		57	43	54	68	69	69	57	82	82	82	87	100	72	82	96	66
Institute of Biophysics ASCR	1125		31	33	48	46	52	37	65	63	75	85	79	75	88	109	125	114
VSB-Technical University of Ostrava	1041		9	18	37	41	37	46	44	54	48	66	72	64	77	90	153	185
Institute of Mathematics ASCR	1038		36	46	38	45	46	68	63	68	58	79	58	72	69	89	88	115
Astronomical Institute ASCR	1028		32	51	66	54	48	62	55	53	49	53	61	65	104	88	98	89
Institute of Inorganic Chemistry ASCR	1007	1	46	39	39	44	48	54	42	53	70	83	52	84	88	87	80	97
National Institute of Public Health and regional hygienic stations	994		46	36	41	56	50	51	50	44	61	70	57	66	97	94	76	99
Institute of Botany ASCR	983		20	30	27	22	23	41	33	41	45	53	72	89	104	123	136	124
Institute of Experimental Medicine ASCR	964	1	39	36	53	49	58	40	53	55	54	54	67	66	60	98	95	86
Institute of Physics of Materials ASCR	926		61	49	43	58	42	46	31	57	71	51	50	99	59	66	74	69
Institute for Clinical and Experimental Medicine	908		18	26	25	28	37	44	40	58	33	59	77	86	64	89	116	108
University of West Bohemia in Plzen	867		11	14	20	21	29	31	40	43	39	64	44	59	117	76	121	138
Institute of Experimental Botany ASCR	845		31	30	46	38	39	43	48	41	42	68	58	62	64	76	88	71
Veterinary Research Institute	777		26	17	26	30	42	37	44	42	43	45	53	82	69	69	84	68
Institute of Information Theory and Automation ASCR	769		33	52	39	41	39	49	37	43	48	53	66	53	54	44	67	51
Institute of Animal Physiology and Genetics ASCR	755		34	41	45	46	34	37	47	53	47	55	52	38	60	45	78	43
Crop Research Institute	675		28	31	32	34	47	31	32	35	23	43	33	40	36	46	99	85
General University Hospital Prague	657		7	14	14	27	22	22	28	28	25	49	36	51	58	77	90	109
University Hospital Brno	631		7	10	16	13	13	23	29	26	34	43	37	64	43	68	105	100
University Hospital Motol	626		8	12	17	19	24	14	18	26	29	34	47	65	47	65	97	104
Institute of Systems Biology and Ecology ASCR	614		33	44	52	41	39	18	19	30	18	14	26	41	29	63	60	87
University of Defense	604		8	16	14	26	16	24	22	21	14	31	29	40	55	86	109	93
Institute of Computer Science ASCR	602		7	21	30	32	26	25	37	29	27	56	44	66	55	36	49	62

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Institute	P	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Institute of Animal Science	591		36	36	26	30	31	27	20	34	35	26	38	41	48	55	65	43
Institute of Hematology and Blood Transfusion	583		23	20	41	33	37	35	31	34	19	40	29	39	38	51	52	61
Institute of Plasma Physics ASCR	561		16	18	8	21	17	23	14	25	71	41	26	73	63	45	47	53
University of Economics Prague	553		40	26	18	31	35	40	26	33	49	25	42	29	32	38	49	40
Institute of Analytical Chemistry ASCR	542		33	29	20	36	27	24	32	26	36	35	32	33	39	57	42	41
Institute of Vertebrate Biology ASCR	534		3	1	2		9	33	26	43	34	48	47	49	47	68	61	63
Czech Geological Survey	525	1	12	21	21	19	27	32	15	26	18	31	36	40	43	45	52	86
Institute of Geophysics ASCR	524		29	27	18	18	28	27	40	46	30	39	28	33	32	36	48	45
Institute of Photonics and Electronics ASCR	510		13	15	13	27	23	45	21	41	22	28	32	41	40	48	47	54
Tomas Bata University in Zlin	487		4	4	3	4		2	4	13	23	43	37	51	67	67	77	88
ASCR unresolved	482	1	36	27	30	40	33	30	24	30	33	32	20	29	28	38	25	26
University Hospital Hradec Kralove	479		2	6	10	15	15	11	18	18	23	32	22	36	39	68	91	73
Technical University of Liberec	478		7	1	9	14	18	20	20	18	23	34	38	52	36	49	65	74
Institute of Atmospheric Physics ASCR	478		6	18	17	21	15	13	20	20	19	36	33	47	43	41	54	75
University Hospital Olomouc	453		6	7	14	11	11	16	17	15	20	24	33	33	37	42	60	107
Institute of Geology ASCR	385	1	17	6	15	12	15	9	13	20	17	27	26	25	41	30	46	65
Institute of Endocrinology	344		13	13	10	17	13	12	23	25	23	37	29	26	19	26	38	20
National Museum	326		7	3	9	7	4	3	10	10	7	11	23	24	28	45	59	76
Silesian University in Opava	323		4	8	8	7	15	17	19	19	23	30	21	28	19	28	40	37
Jan Evangelista Purkyně University in Ústí nad Labem	313		1	5	3	1	7	12	13	12	15	21	24	24	23	36	49	67
Institute of Thermomechanics ASCR	309		12	8	9	13	10	9	16	9	15	19	20	29	20	29	45	46
Masaryk Memorial Cancer Institute	305		5	5	6	9	5	14	16	23	16	25	19	29	27	35	47	24
University Hospital in Plzeň	297		3	2	6	5	11	14	15	11	23	22	19	26	30	21	35	54
Institute of Scientific Instruments ASCR	282		17	10	14	5	14	16	14	13	12	16	15	18	33	31	25	29
Na Homolce Hospital	272		1	2	3	3	8	12	17	15	10	37	17	26	22	27	42	30
Institute of Rock Structure and Mechanics	247		2	6	12	7	13	9	18	10	12	16	14	11	12	19	52	34

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Institute	P	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
ASCR																		
University of Ostrava	246		1	8	3	3	6	5	10	9	17	7	23	26	23	14	54	37
CERGE-Economics Institute ASCR	233		11	4	6	11	8	18	27	16	21	15	14	17	10	20	18	17
St. Anne's University Hospital Brno	227		2	3	5	7	9	12	5	15	15	20	16	13	18	30	32	25
Institute of Psychology ASCR	222		14	18	16	13	8	11	14	5	10	12	16	16	21	15	17	16
Prague Psychiatric Centre	222		15	12	9	10	9	10	12	12	7	11	8	17	15	18	33	24
Institute of Sociology ASCR	213		6	12	11	5	13	10	6	9	17	9	19	18	19	19	18	22
Czech National Bank	211		8	7	11	8	6	9	10	16	31	11	21	19	7	11	21	15
University Hospital Kralovske Vinohrady	200		1	3	3	3	6	6	4	12	14	17	12	20	19	24	28	28
Zentiva	192		14	6	12	11	14	10	12	3	5	4	11	16	10	22	23	19
Institute of Philosophy ASCR	178	1	9	8	5	4	25	15	11	4	12	2	6	19	12	12	15	18
Research Institute of Organic Syntheses	177		5	6	6	12	7	8	11	7	10	12	8	9	16	15	22	23
Institute for Postgraduate Medical Education	173		7	10	10	7	9	8	6	10	15	15	11	18	2	8	25	12
Nuclear Research Institute Rez	168		2	4	3	5	5	7	6	5	12	9	7	14	23	16	21	29
Faculty Hospital Na Bulovce	167		9	8	8	9	6	7	7	6	5	11	13	13	10	13	14	28
University Hospital Ostrava	165		1	3	3	5	4	6	7	9	8	14	11	17	10	16	25	26
University of Hradec Kralove	165		1	4	3	4	8	5	5	10	15	14	10	13	11	12	20	30
State Veterinary Administration of the Czech Republic	162		3	6	10	8	9	8	10	4	10	18	16	15	11	13	10	11
Teva Czech Industries	158		17	11	15	13	10	5	6	11	6	14	10	17	14	2	3	4
Institute of Rheumatology	152		4	4	3	7	4	8	7	12	14	10	9	10	16	15	15	14
Central Military Hospital Prague	149		2	1	3	5	3	4	9	7	10	9	12	10	18	16	22	18
Research Institute for Cattle Breeding	145		5	11	12	18	9	12	13	4	7	11	3	4	3	7	14	12
VUC Praha	135		7	12	22	14	9	14	2	18	4	4	4	2		1	20	2
Thomayer University Hospital	133				5	1	3	4	6	4	8	13	6	17	11	16	20	19
Czech Hydrometeorological Institute	127		1	3	2	2	3	1	6	5	4	17	8	5	11	11	26	22
Institute of Hydrodynamics ASCR	125		8	4	8	7	4	7	4	5	6	6	9	4	12	6	17	18
Military Geography and Hydrometeorology	124		2	4	8	6	2	12	4	7	9	5	8	8	9	14	15	11

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<b>Institute</b>	<b>P</b>	<b>1993</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
Office Dobruska																		
Czech Metrology Institute	120			1	2	2	2	3	6	6	13	8	10	9	9	5	24	20
Institute of Geonics ASCR	114			4	3	7	2	6	3	5	3	11	8	5	14	12	16	15
Institute of Theoretical and Applied Mechanics ASCR	107		5	13	4	6	4	10	9	5	8	6	8	5	5	4	6	9
Moravian Museum	102		6	5	4	4	4	7	3	3	2	9	5	5	5	10	13	17
National Radiation Protection Institute	96			1	1	3	3	7	3	6	2	5	7	5	4	5	35	9



## Appendix D - Temporal evolution of production for the main Czech institutions – block approach

Institute	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Academy of Sciences (global)	5498	7453	7819	8115	8294	8589	8815	9262	9554	10151	10755	11171	12115	12746
Charles University in Prague	2147	3043	3321	3625	3881	4104	4415	4837	5214	5852	6381	6998	7981	8772
Institute of Physics ASCR	847	1166	1295	1373	1488	1552	1642	1698	1708	1802	1832	1829	1918	1979
Masaryk University	508	731	849	942	1036	1159	1261	1422	1562	1702	1868	2026	2277	2508
Institute of Chemical Technology Prague	600	832	889	940	905	927	984	1029	1139	1214	1263	1328	1427	1510
Czech Technical University in Prague	303	415	454	498	541	589	665	779	877	1051	1174	1240	1425	1576
Palacky University Olomouc	244	350	404	454	485	554	638	712	800	874	964	1082	1305	1563
J. Heyrovsky Institute of Physical Chemistry ASCR	441	595	661	668	671	701	681	751	750	735	731	644	663	693
Biology Centre ASCR	380	518	507	533	585	595	615	628	623	684	742	783	859	908
University of South Bohemia in Ceske Budejovice	114	173	216	275	353	406	472	551	604	729	835	960	1170	1390
Institute of Organic Chemistry and Biochemistry ASCR	349	469	473	496	468	485	499	533	588	663	745	834	970	1035
Institute of Macromolecular Chemistry ASCR	336	433	447	467	457	502	532	545	551	558	575	600	627	644
Institute of Microbiology ASCR	329	443	464	482	461	472	461	506	532	532	547	539	573	632
University of Pardubice	250	351	352	352	392	390	408	444	460	507	557	638	724	813
Institute of Physiology ASCR	332	476	508	519	501	486	457	489	519	508	531	519	535	590
Nuclear Physics Institute ASCR	271	366	403	406	430	453	441	465	466	496	535	550	567	566
Brno University of Technology	183	255	290	324	357	374	382	389	379	437	495	542	658	746
University of Veterinary and Pharmaceutical Sciences Brno	104	139	161	157	169	201	230	288	336	387	448	542	654	718
Mendel University in Brno	121	163	164	199	215	246	281	321	344	372	389	410	498	574
Czech University of Life Sciences Prague	123	179	212	201	203	204	202	223	243	285	294	324	508	610
Institute of Chemical Process Fundamentals ASCR	205	269	253	256	266	283	292	300	294	310	338	360	391	399
Institute of Molecular Genetics ASCR	154	222	234	260	263	277	290	303	333	351	341	341	350	316
Institute of Biophysics ASCR	112	158	179	183	200	217	240	288	302	314	327	351	397	436

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Institute	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
VSB-Technical University of Ostrava	64	105	133	161	168	181	192	212	240	250	279	303	384	505
Institute of Mathematics ASCR	120	165	175	197	222	245	257	268	263	267	278	288	318	361
Astronomical Institute ASCR	149	203	219	230	219	218	219	210	216	228	283	318	355	379
Institute of Inorganic Chemistry ASCR	125	168	170	185	188	197	219	248	258	289	307	311	339	352
National Institute of Public Health and regional hygienic stations	123	179	183	198	207	195	206	225	232	254	290	314	333	366
Institute of Botany ASCR	77	99	102	113	119	138	160	172	211	259	318	388	452	487
Institute of Experimental Medicine ASCR	129	177	196	200	200	206	202	216	230	241	247	291	319	339
Institute of Physics of Materials ASCR	153	211	192	189	177	176	205	210	229	271	259	274	298	268
Institute for Clinical and Experimental Medicine	69	97	116	134	149	179	175	190	227	255	286	316	355	377
University of West Bohemia in Plzen	45	66	84	101	121	143	153	186	190	206	284	296	373	452
Institute of Experimental Botany ASCR	107	145	153	166	168	171	174	199	209	230	252	260	290	299
Veterinary Research Institute	69	99	115	135	153	165	166	174	183	223	249	273	304	290
Institute of Information Theory and Automation ASCR	124	165	171	168	166	168	177	181	210	220	226	217	218	216
Institute of Animal Physiology and Genetics ASCR	120	166	166	162	164	171	184	202	207	192	205	195	221	226
Crop Research Institute	91	125	144	144	144	145	121	133	134	139	152	155	221	266
General University Hospital Prague	35	62	77	85	99	100	103	130	138	161	194	222	276	334
University Hospital Brno	33	46	52	65	78	91	112	132	140	178	187	212	280	316
University Hospital Motol	37	56	72	74	75	82	87	107	136	175	193	224	274	313
Institute of Systems Biology and Ecology ASCR	129	170	176	150	117	106	85	81	88	99	110	159	193	239
University of Defense	38	64	72	80	88	83	81	88	95	114	155	210	290	343
Institute of Computer Science ASCR	58	90	109	113	120	117	118	149	156	193	221	201	206	202
Institute of Animal Science	98	128	123	114	108	112	116	115	133	140	153	182	209	211
Institute of Hematology and Blood Transfusion	84	117	131	146	136	137	119	124	122	127	146	157	180	202
Institute of Plasma Physics ASCR	42	63	64	69	75	79	133	151	163	211	203	207	228	208
University of Economics Prague	84	115	110	124	132	134	148	133	149	145	128	141	148	159
Institute of Analytical Chemistry ASCR	82	118	112	107	119	109	118	129	129	136	139	161	171	179
Institute of Vertebrate Biology ASCR	6	6	12	44	68	111	136	151	172	178	191	211	225	239



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<b>Institute</b>	<b>1993-1996</b>	<b>1994-1997</b>	<b>1995-1998</b>	<b>1996-1999</b>	<b>1997-2000</b>	<b>1998-2001</b>	<b>1999-2002</b>	<b>2000-2003</b>	<b>2001-2004</b>	<b>2002-2005</b>	<b>2003-2006</b>	<b>2004-2007</b>	<b>2005-2008</b>	<b>2006-2009</b>
Czech Geological Survey	55	73	88	99	93	100	91	90	111	125	150	164	180	226
Institute of Geophysics ASCR	74	92	91	91	113	141	143	155	143	130	132	129	149	161
Institute of Photonics and Electronics ASCR	41	68	78	108	116	130	129	112	123	123	141	161	176	189
Tomas Bata University in Zlin	11	15	11	9	10	19	42	83	116	154	198	222	262	299
ASCR unresolved	94	133	130	133	127	117	117	119	115	114	109	115	120	117
University Hospital Hradec Kralove	18	33	46	51	59	62	70	91	95	113	129	165	234	271
Technical University of Liberec	17	31	42	61	72	76	81	95	113	147	160	175	202	224
Institute of Atmospheric Physics ASCR	41	62	71	66	69	68	72	95	108	135	159	164	185	213
University Hospital Olomouc	27	38	43	52	55	59	68	76	92	110	127	145	172	246
Institute of Geology ASCR	39	50	48	51	49	57	59	77	90	95	119	122	142	182
Institute of Endocrinology	36	53	53	52	65	73	83	108	114	115	111	100	109	103
National Museum	19	26	23	23	24	27	30	38	51	65	86	120	156	208
Silesian University in Opava	20	27	38	47	58	70	78	91	93	102	98	96	115	124
Jan Evangelista Purkyně University in Ústí nad Labem	9	10	16	23	33	44	52	61	72	84	92	107	132	175
Institute of Thermomechanics ASCR	29	42	40	41	48	44	49	59	63	83	88	98	123	140
Masaryk Memorial Cancer Institute	16	25	25	34	44	58	69	80	83	89	100	110	138	133
University Hospital in Plzeň	11	16	24	36	45	51	63	71	75	90	97	96	112	140
Institute of Scientific Instruments ASCR	41	46	43	49	49	57	55	55	56	61	82	97	107	118
Na Homolce Hospital	6	9	16	26	40	52	54	79	79	90	102	92	117	121
Institute of Rock Structure and Mechanics ASCR	20	27	38	41	47	50	49	56	52	53	53	56	94	117
University of Ostrava	12	15	20	17	24	30	41	43	56	73	79	86	117	128
CERGE-Economics Institute ASCR	21	32	29	43	64	69	82	79	66	67	56	61	65	65
St. Anne's University Hospital Brno	10	17	24	33	33	41	47	55	66	64	67	77	93	105
Institute of Psychology ASCR	48	61	55	48	46	38	40	41	43	54	65	68	69	69
Prague Psychiatric Centre	36	46	40	38	41	43	41	42	38	43	51	58	83	90
Institute of Sociology ASCR	29	34	41	39	34	38	42	41	54	63	65	75	74	78

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Institute	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Czech National Bank	26	34	32	34	33	41	66	68	79	82	58	58	58	54
University Hospital Kralovske Vinohrady	7	10	15	18	19	28	36	47	55	63	68	75	91	99
Zentiva	32	43	43	47	47	39	30	24	23	36	41	59	71	74
Institute of Philosophy ASCR	23	26	42	49	55	55	42	29	24	39	39	49	58	57
Research Institute of Organic Syntheses	17	29	31	33	38	33	36	40	37	39	45	48	62	76
Institute for Postgraduate Medical Education	27	34	36	34	30	33	39	46	51	59	46	39	53	47
Nuclear Research Institute Rez	9	14	17	20	23	23	30	32	33	42	53	60	74	89
Faculty Hospital Na Bulovce	25	34	31	30	29	26	25	29	35	42	47	49	50	65
University Hospital Ostrava	7	12	15	18	22	26	30	38	42	50	52	54	68	77
University of Hradec Kralove	8	12	19	20	22	28	35	44	49	52	48	46	56	73
State Veterinary Administration of the Czech Republic	19	27	33	35	35	31	32	42	48	59	60	55	49	45
Teva Czech Industries	43	56	49	43	34	32	28	37	41	47	55	43	36	23
Institute of Rheumatology	11	18	18	22	26	31	41	43	45	43	45	50	56	60
Central Military Hospital Prague	6	11	12	15	21	23	30	35	38	41	49	56	66	74
Research Institute for Cattle Breeding	28	46	50	51	52	38	36	35	25	25	21	17	28	36
VUC Praha	41	55	57	59	39	43	38	28	30	14	10	7	23	23
Thomayer University Hospital	5	6	9	13	14	17	22	31	31	44	47	50	64	66
Czech Hydrometeorological Institute	6	8	10	8	12	15	16	32	34	34	41	35	53	70
Institute of Hydrodynamics ASCR	20	27	23	26	22	20	22	21	26	25	31	31	39	53
Military Geography and Hydrometeorology Office Dobruska	14	20	20	28	24	25	32	25	29	30	30	39	46	49
Czech Metrology Institute	3	5	7	9	13	17	28	33	37	40	36	33	47	58
Institute of Geonics ASCR	7	14	16	18	18	16	17	22	27	27	38	39	47	57
Institute of Theoretical and Applied Mechanics ASCR	22	28	27	24	29	28	32	28	27	27	24	22	20	24
Moravian Museum	15	19	17	19	18	17	15	17	19	21	24	25	33	45
National Radiation Protection Institute	2	5	8	14	16	19	18	16	20	19	21	21	49	53

## Appendix E - Temporal evolution of CPP/FCSm for the main Czech institutions – block approach

Institute	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Academy of Sciences (global)	0.59	0.61	0.63	0.61	0.61	0.64	0.70	0.69	0.69	0.72	0.78	0.83	0.84	0.83
Charles University in Prague	0.65	0.65	0.69	0.60	0.61	0.61	0.62	0.64	0.65	0.66	0.70	0.77	0.81	0.85
Institute of Physics ASCR	0.96	0.98	1.11	1.03	0.91	0.90	0.91	0.93	0.86	0.77	0.95	1.14	1.08	1.00
Masaryk University	0.51	0.44	0.40	0.41	0.55	0.57	0.62	0.66	0.74	0.61	0.62	0.68	0.71	0.72
Institute of Chemical Technology Prague	0.28	0.30	0.31	0.34	0.39	0.39	0.45	0.40	0.44	0.50	0.53	0.51	0.47	0.48
Czech Technical University in Prague	0.30	0.32	0.35	0.40	0.35	0.34	0.38	0.44	0.46	0.44	0.54	0.62	0.82	0.93
Palacky University Olomouc	0.48	0.53	0.49	0.48	0.62	0.41	0.55	0.55	0.61	0.64	0.68	0.71	0.73	0.82
J. Heyrovsky Institute of Physical Chemistry ASCR	1.17	1.08	0.95	0.93	0.87	0.96	1.19	1.08	0.99	0.99	0.89	0.87	0.77	0.74
Biology Centre ASCR	0.48	0.49	0.60	0.66	0.69	0.65	0.62	0.57	0.69	0.75	0.76	0.74	0.70	0.80
University of South Bohemia in Ceske Budejovice	0.37	0.39	0.40	0.60	0.63	0.64	0.65	0.64	0.72	0.71	0.75	0.75	0.74	0.74
Institute of Organic Chemistry and Biochemistry ASCR	0.37	0.38	0.39	0.39	0.37	0.48	0.62	0.71	0.76	0.82	0.87	0.92	1.00	1.09
Institute of Macromolecular Chemistry ASCR	0.54	0.59	0.66	0.66	0.74	0.77	0.90	0.88	0.71	0.77	0.76	0.81	0.83	0.90
Institute of Microbiology ASCR	0.41	0.42	0.33	0.36	0.41	0.47	0.56	0.57	0.60	0.54	0.55	0.56	0.67	0.78
University of Pardubice	0.30	0.38	0.51	0.36	0.33	0.40	0.42	0.47	0.51	0.62	0.66	0.63	0.63	0.64
Institute of Physiology ASCR	0.46	0.53	0.62	0.50	0.48	0.55	0.55	0.47	0.50	0.50	0.57	0.71	0.68	0.64
Nuclear Physics Institute ASCR	0.38	0.41	0.45	0.54	0.52	0.53	0.69	0.75	0.85	1.03	1.22	1.30	1.27	0.90
Brno University of Technology	0.25	0.23	0.17	0.21	0.29	0.40	0.36	0.39	0.35	0.29	0.35	0.43	0.45	0.58
University of Veterinary and Pharmaceutical Sciences Brno	0.07	0.11	0.19	0.29	0.48	0.54	0.43	0.50	0.52	0.47	0.41	0.42	0.55	0.56
Mendel University in Brno	0.23	0.23	0.37	0.34	0.42	0.39	0.44	0.37	0.33	0.46	0.58	0.67	0.64	0.69
Czech University of Life Sciences Prague	0.46	0.43	0.39	0.29	0.30	0.38	0.33	0.32	0.36	0.48	0.44	0.44	0.56	0.73
Institute of Chemical Process Fundamentals ASCR	0.43	0.48	0.45	0.54	0.59	0.42	0.45	0.41	0.48	0.59	0.61	0.69	0.63	0.56
Institute of Molecular Genetics ASCR	0.66	0.66	0.58	0.47	0.51	0.61	0.81	0.74	0.72	0.81	0.75	0.82	0.86	0.76
Institute of Biophysics ASCR	0.57	0.59	0.69	0.82	0.81	0.68	0.80	0.84	0.94	0.90	0.83	0.88	0.90	0.89

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Institute	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
VSB-Technical University of Ostrava	0.09	0.13	0.23	0.25	0.39	0.51	0.39	0.49	0.45	0.44	0.58	0.61	0.53	0.49
Institute of Mathematics ASCR	0.45	0.66	0.61	0.76	0.75	0.65	0.67	0.67	0.97	1.01	1.15	1.10	0.91	0.84
Astronomical Institute ASCR	0.24	0.28	0.35	0.37	0.41	0.42	0.48	0.48	0.40	0.39	0.44	0.42	0.46	0.48
Institute of Inorganic Chemistry ASCR	0.19	0.25	0.31	0.39	0.34	0.32	0.48	0.49	0.41	0.58	0.76	0.63	0.58	0.53
National Institute of Public Health and regional hygienic stations	0.58	0.61	0.65	0.49	0.51	0.69	0.67	0.60	0.62	0.62	0.77	0.86	0.93	1.00
Institute of Botany ASCR	0.27	0.27	0.29	0.41	0.51	0.54	0.65	0.75	0.83	0.65	0.70	0.76	0.91	1.00
Institute of Experimental Medicine ASCR	0.71	0.59	0.60	0.56	0.49	0.53	0.53	0.52	0.55	0.73	0.84	0.99	0.97	0.98
Institute of Physics of Materials ASCR	0.53	0.64	0.75	0.81	0.47	0.47	0.63	0.75	0.83	0.76	0.68	0.63	0.57	0.67
Institute for Clinical and Experimental Medicine	0.19	0.21	0.30	0.46	0.63	0.57	0.75	0.78	0.96	1.47	1.59	0.91	1.08	1.45
University of West Bohemia in Plzen	0.19	0.21	0.37	0.74	1.01	1.35	1.38	1.18	0.76	0.60	0.50	0.45	0.42	0.45
Institute of Experimental Botany ASCR	0.71	0.73	0.55	0.50	0.64	0.59	0.59	0.54	0.65	0.92	1.10	1.09	1.10	1.06
Veterinary Research Institute	0.46	0.56	0.51	0.46	0.52	0.69	0.62	0.66	0.78	0.77	0.84	0.83	0.66	0.67
Institute of Information Theory and Automation ASCR	0.41	0.67	0.62	0.43	0.60	0.86	0.92	0.63	0.75	1.27	1.75	0.94	0.93	1.02
Institute of Animal Physiology and Genetics ASCR	0.54	0.57	0.69	0.58	0.41	0.37	0.41	0.50	0.58	0.67	0.73	0.60	0.62	0.65
Crop Research Institute	0.35	0.39	0.33	0.32	0.42	0.29	0.29	0.27	0.31	0.25	0.39	0.53	0.61	0.64
General University Hospital Prague	0.30	0.45	0.81	0.88	1.00	0.46	0.68	0.81	0.57	0.56	0.55	0.71	0.87	1.24
University Hospital Brno	0.05	0.20	0.20	0.17	0.31	0.50	0.61	0.75	0.52	0.63	0.58	0.69	0.77	0.91
University Hospital Motol	0.55	0.41	0.36	0.44	0.52	0.74	0.83	0.67	0.79	0.57	0.61	0.62	0.76	0.92
Institute of Systems Biology and Ecology ASCR	0.35	0.41	0.53	0.45	0.38	0.67	0.71	0.62	0.48	0.50	0.44	0.57	0.79	0.78
University of Defense	0.11	0.10	0.15	0.17	0.32	0.46	0.49	0.75	0.52	0.61	0.61	0.63	0.59	0.64
Institute of Computer Science ASCR	0.50	0.52	0.55	0.97	0.98	0.99	0.78	0.68	0.83	0.79	0.79	1.03	0.89	0.81
Institute of Animal Science	0.30	0.31	0.36	0.32	0.42	0.64	0.71	0.60	0.82	0.49	0.47	0.57	0.65	0.75
Institute of Hematology and Blood Transfusion	0.53	0.56	0.53	0.40	0.30	0.31	0.37	0.44	0.54	0.50	0.48	0.58	0.59	0.69
Institute of Plasma Physics ASCR	0.32	0.27	0.16	0.29	0.40	0.38	0.29	0.21	0.35	0.36	0.53	0.41	0.47	0.58
University of Economics Prague	0.20	0.14	0.23	0.29	0.28	0.40	0.45	0.24	0.24	0.22	0.40	0.53	0.45	0.36
Institute of Analytical Chemistry ASCR	1.01	1.00	1.11	0.94	0.87	0.73	1.01	1.10	0.73	0.82	0.94	0.83	0.87	0.90
Institute of Vertebrate Biology ASCR	0.00	0.00	0.00	0.26	0.58	1.01	1.09	0.96	0.79	0.77	0.81	0.75	0.91	0.73

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Institute	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Czech Geological Survey	1.57	1.48	0.54	0.58	0.49	0.42	0.46	0.80	1.11	1.20	0.79	0.73	0.89	0.81
Institute of Geophysics ASCR	0.27	0.25	0.34	0.36	0.49	0.58	0.45	0.55	0.48	0.45	0.54	0.63	0.69	0.71
Institute of Photonics and Electronics ASCR	0.43	0.44	0.62	0.51	0.59	0.37	0.39	0.57	0.78	0.84	1.11	1.01	1.05	0.99
Tomas Bata University in Zlin	0.00	0.05	0.05	0.00	0.23	0.67	0.52	0.18	0.31	0.36	0.56	0.49	0.57	0.51
ASCR unresolved	0.69	0.67	0.60	0.60	0.67	0.85	0.97	0.82	0.88	0.66	0.57	0.59	0.56	0.56
University Hospital Hradec Kralove	1.03	0.66	0.21	0.33	0.48	0.98	1.43	1.82	0.40	0.43	0.45	0.54	0.61	0.55
Technical University of Liberec	1.29	0.64	0.36	0.43	0.34	0.47	0.42	0.67	0.71	0.55	0.42	0.56	0.58	0.73
Institute of Atmospheric Physics ASCR	0.24	0.23	0.16	0.24	0.32	0.32	0.39	0.46	0.34	0.42	0.39	0.49	0.59	0.68
University Hospital Olomouc	0.65	0.62	0.68	0.31	0.20	0.25	0.37	0.51	0.55	0.38	0.47	0.52	0.42	0.55
Institute of Geology ASCR	0.24	0.49	0.58	0.78	0.76	0.32	0.36	0.34	0.41	0.41	0.31	0.55	0.51	0.58
Institute of Endocrinology	0.12	0.19	0.37	0.62	0.72	0.49	0.31	0.27	0.33	0.40	0.48	0.49	0.54	0.57
National Museum	0.12	0.16	0.32	0.42	0.59	0.50	0.09	0.12	0.52	0.59	0.63	0.47	0.50	0.53
Silesian University in Opava	0.72	0.40	0.30	0.18	0.13	0.12	0.09	0.28	0.32	0.52	0.61	0.60	0.79	0.62
Jan Evangelista Purkyně University in Ústí nad Labem	0.15	0.34	0.48	0.54	0.44	0.52	0.51	0.30	0.30	0.52	0.78	0.60	0.66	0.42
Institute of Thermomechanics ASCR	0.23	0.32	0.48	0.32	0.38	0.32	0.29	0.41	0.21	0.16	0.20	0.23	0.31	0.44
Masaryk Memorial Cancer Institute	2.65	2.10	1.42	1.15	1.13	1.63	1.52	1.38	0.52	0.61	0.79	1.20	1.22	1.33
University Hospital in Plzeň	0.11	0.17	0.71	0.80	0.64	0.50	0.53	0.53	0.52	0.48	0.59	0.55	0.56	0.75
Institute of Scientific Instruments ASCR	0.84	0.59	0.32	0.47	0.27	0.46	0.58	0.22	0.39	0.35	0.38	0.64	0.90	0.90
Na Homolce Hospital	0.17	0.19	0.08	0.19	0.67	0.87	0.73	0.68	0.57	0.64	0.60	0.74	0.78	1.07
Institute of Rock Structure and Mechanics ASCR	0.10	0.07	0.09	0.10	0.37	0.48	0.28	0.24	0.36	0.34	0.46	0.53	0.46	0.31
University of Ostrava	0.00	0.18	0.33	0.28	0.34	0.49	0.42	0.57	0.99	1.09	0.87	0.67	0.53	0.69
CERGE-Economics Institute ASCR	0.17	0.34	0.78	0.71	0.62	0.56	0.63	0.70	0.86	0.86	0.84	1.03	0.71	0.66
St. Anne's University Hospital Brno	0.18	0.21	0.31	0.31	0.48	0.83	0.25	0.30	0.35	0.42	0.66	0.88	0.52	0.50
Institute of Psychology ASCR	0.03	0.01	0.06	0.14	0.34	0.60	0.77	0.93	0.38	0.45	0.50	0.41	0.25	0.16
Prague Psychiatric Centre	0.30	0.21	0.51	0.89	1.12	0.30	0.35	0.31	0.53	0.41	0.57	0.66	0.73	0.71
Institute of Sociology ASCR	0.79	0.67	0.59	0.67	0.62	0.50	0.42	0.26	0.25	0.32	0.32	0.40	0.57	0.58

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Institute	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Czech National Bank	0.28	0.22	0.16	0.31	0.40	0.68	0.75	0.71	0.51	0.45	0.38	0.36	0.45	0.51
University Hospital Kralovske Vinohrady	0.09	0.08	0.00	0.03	0.41	0.52	0.80	0.60	0.69	0.85	1.41	1.06	1.07	1.47
Zentiva	0.08	0.13	0.25	0.25	0.28	0.33	0.23	0.37	0.61	0.92	0.27	0.22	0.31	0.45
Institute of Philosophy ASCR	0.52	0.30	0.54	0.76	0.56	0.50	0.07	0.58	0.34	0.63	0.93	0.80	0.82	0.45
Research Institute of Organic Syntheses	0.17	0.22	0.11	0.15	0.19	0.10	0.09	0.37	0.46	0.49	0.32	0.44	0.40	0.37
Institute for Postgraduate Medical Education	0.21	0.16	0.20	0.29	0.45	0.53	0.23	0.59	0.70	0.95	0.75	0.69	0.97	1.08
Nuclear Research Institute Rez	0.00	0.00	0.00	0.20	0.19	0.28	0.51	0.60	0.44	0.55	0.42	0.41	0.36	0.39
Faculty Hospital Na Bulovce	0.83	0.69	0.44	0.17	0.32	0.44	0.39	0.76	0.87	1.01	0.47	0.53	0.80	1.06
University Hospital Ostrava	0.12	0.13	0.05	0.28	0.44	0.78	0.28	0.48	0.86	0.81	1.09	0.93	1.00	1.24
University of Hradec Kralove	0.00	0.26	0.40	0.82	0.47	0.41	0.74	0.95	0.74	0.62	0.70	0.60	0.71	0.34
State Veterinary Administration of the Czech Republic	0.22	0.34	0.30	0.38	0.33	0.69	0.77	0.78	1.04	1.30	0.98	0.78	1.04	1.49
Teva Czech Industries	0.31	0.38	0.23	0.18	0.16	0.15	0.21	0.25	0.19	0.27	0.32	0.26	0.24	0.35
Institute of Rheumatology	0.32	0.42	0.30	0.47	0.95	3.05	3.00	1.48	1.45	2.27	3.51	3.44	2.18	2.85
Central Military Hospital Prague	0.00	0.00	0.23	0.32	0.06	0.18	0.33	0.44	0.42	0.46	0.43	0.64	1.22	1.33
Research Institute for Cattle Breeding	0.30	0.27	0.03	0.17	0.12	0.39	0.32	0.19	0.54	0.59	0.59	0.29	0.13	0.40
VUC Praha	0.38	0.13	0.08	0.07	0.07	0.06	0.08	0.03	0.02	0.11	0.00	0.00	0.50	0.48
Thomayer University Hospital	1.53	0.36	0.24	0.29	0.11	0.12	0.17	0.09	0.31	0.52	0.77	0.46	0.46	0.33
Czech Hydrometeorological Institute	0.27	0.33	0.28	0.29	0.85	1.15	0.28	0.44	0.52	0.75	0.66	0.68	1.60	1.82
Institute of Hydrodynamics ASCR	0.66	0.76	0.34	0.48	0.10	0.10	0.16	0.33	0.46	0.30	0.43	0.53	0.49	0.53
Military Geography and Hydrometeorology Office Dobruska	0.00	0.12	0.06	0.04	0.05	0.04	0.21	0.12	0.13	0.20	0.37	0.33	0.19	0.32
Czech Metrology Institute	0.00	1.12	0.60	0.28	0.62	0.73	0.24	0.24	0.34	0.28	0.34	0.35	0.23	0.16
Institute of Geonics ASCR	0.00	0.58	0.25	0.34	0.36	0.62	0.38	0.35	0.70	0.78	0.65	0.10	0.27	0.24
Institute of Theoretical and Applied Mechanics ASCR	0.09	0.04	0.07	0.00	0.18	0.26	0.33	0.45	0.41	0.47	0.33	0.41	0.43	0.49
Moravian Museum	0.26	0.21	0.44	0.25	0.33	0.13	0.19	0.10	0.10	0.30	0.19	0.34	0.55	0.63
National Radiation Protection Institute	0.00	1.17	1.66	1.57	1.30	0.37	0.50	0.33	0.42	0.48	0.60	1.10	1.99	0.61

## Appendix F - General indicators by collaboration

Institution	Type Coop.	%	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Academy of Sciences (global)	Single institute	24	9255	48836	5.28	0.74	0.48	0.65	35%	31%
	National col.	23	9136	41343	4.53	0.76	0.50	0.65	35%	35%
	International col.	53	20557	169566	8.25	0.89	0.86	0.96	26%	35%
Charles University in Prague	Single institute	20	4396	13703	3.12	0.70	0.35	0.50	46%	30%
	National col.	34	7483	29405	3.93	0.75	0.42	0.56	37%	32%
	International col.	45	9896	86471	8.74	0.96	0.96	1.00	28%	32%
Institute of Physics ASCR	Single institute	12	798	2968	3.72	0.62	0.44	0.71	42%	39%
	National col.	14	899	2509	2.79	0.59	0.42	0.70	46%	42%
	International col.	74	4805	33520	6.98	0.89	0.92	1.04	30%	40%
Masaryk University	Single institute	27	1676	5183	3.09	0.75	0.34	0.46	47%	28%
	National col.	35	2163	8533	3.94	0.80	0.48	0.60	35%	36%
	International col.	37	2262	17212	7.61	0.99	0.91	0.92	30%	30%
Institute of Chemical Technology Prague	Single institute	31	1368	5347	3.91	0.78	0.30	0.38	40%	29%
	National col.	42	1886	7294	3.87	0.77	0.41	0.53	39%	38%
	International col.	27	1229	7372	6.00	0.79	0.65	0.82	29%	32%
Czech Technical University in Prague	Single institute	30	1083	1588	1.47	0.55	0.30	0.55	63%	33%
	National col.	25	923	2162	2.34	0.70	0.42	0.60	52%	33%
	International col.	45	1626	6742	4.15	0.97	0.77	0.79	41%	38%
Palacky University Olomouc	Single institute	27	916	3204	3.50	0.83	0.45	0.54	51%	29%
	National col.	38	1258	4688	3.73	0.92	0.47	0.51	41%	29%
	International col.	35	1167	8921	7.64	0.96	0.98	1.02	33%	28%
J. Heyrovsky Institute of Physical Chemistry ASCR	Single institute	19	519	5095	9.82	0.82	0.65	0.79	23%	26%
	National col.	21	567	4774	8.42	1.02	0.83	0.81	27%	31%
	International col.	60	1638	19889	12.14	1.00	1.16	1.16	19%	33%
Biology Centre ASCR	Single institute	22	587	3108	5.29	0.83	0.49	0.59	26%	34%
	National col.	30	824	4493	5.45	0.84	0.62	0.75	27%	31%
	International col.	48	1294	9888	7.64	0.91	0.81	0.89	24%	34%
University of South Bohemia in Ceske Budejovice	Single institute	15	397	1429	3.60	0.84	0.51	0.61	49%	25%
	National col.	45	1213	5893	4.86	0.87	0.68	0.78	33%	29%
	International col.	40	1088	6880	6.32	0.93	0.91	0.97	29%	33%
Institute of Organic Chemistry and Biochemistry ASCR	Single institute	21	551	2829	5.13	0.82	0.37	0.45	24%	40%
	National col.	37	969	7033	7.26	0.98	0.70	0.71	28%	35%
	International col.	43	1132	10138	8.96	0.88	0.83	0.94	22%	36%
Institute of Macromolecular Chemistry ASCR	Single institute	25	540	3638	6.74	0.75	0.60	0.80	26%	28%
	National col.	29	628	3025	4.82	0.70	0.53	0.77	32%	39%
	International col.	45	969	9097	9.39	0.97	1.04	1.07	22%	31%
Institute of Microbiology ASCR	Single institute	22	451	2797	6.20	0.70	0.39	0.56	24%	24%
	National col.	32	672	3314	4.93	0.66	0.40	0.60	29%	33%

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Institution	Type Coop.	%	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
	International col.	46	956	9220	9.64	0.81	0.66	0.81	17%	31%
University of Pardubice	Single institute	29	602	2210	3.67	0.77	0.39	0.51	41%	35%
	National col.	38	789	2848	3.61	0.75	0.48	0.64	40%	41%
	International col.	33	670	4558	6.80	1.02	0.90	0.88	27%	34%
Institute of Physiology ASCR	Single institute	22	455	3672	8.07	0.54	0.41	0.76	22%	29%
	National col.	31	646	2670	4.13	0.55	0.33	0.59	32%	39%
	International col.	47	959	10980	11.45	0.71	0.64	0.91	19%	31%
Nuclear Physics Institute ASCR	Single institute	14	258	921	3.57	0.90	0.42	0.46	43%	41%
	National col.	19	363	1069	2.94	0.63	0.38	0.61	42%	43%
	International col.	67	1260	8418	6.68	1.01	0.92	0.92	34%	41%
Brno University of Technology	Single institute	40	720	1046	1.45	0.54	0.25	0.46	61%	37%
	National col.	31	569	1304	2.29	0.58	0.33	0.57	48%	38%
	International col.	29	523	2071	3.96	0.82	0.65	0.80	43%	34%
University of Veterinary and Pharmaceutical Sciences Brno	Single institute	26	371	715	1.93	0.88	0.35	0.40	42%	33%
	National col.	54	776	1818	2.34	0.97	0.54	0.56	44%	37%
	International col.	21	298	933	3.13	0.86	0.55	0.64	44%	36%
Mendel University in Brno	Single institute	40	539	1155	2.14	0.91	0.29	0.32	47%	27%
	National col.	41	553	1355	2.45	0.76	0.42	0.56	44%	52%
	International col.	19	263	1570	5.97	1.07	0.88	0.83	31%	37%
Czech University of Life Sciences Prague	Single institute	47	606	1016	1.68	1.12	0.29	0.26	52%	37%
	National col.	38	486	1320	2.72	0.97	0.50	0.52	47%	32%
	International col.	15	186	755	4.06	0.90	0.73	0.81	38%	34%
Institute of Chemical Process Fundamentals ASCR	Single institute	31	387	2085	5.39	0.73	0.48	0.66	32%	33%
	National col.	26	324	1343	4.15	0.65	0.52	0.80	31%	40%
	International col.	44	551	3030	5.50	0.65	0.66	1.03	27%	41%
Institute of Molecular Genetics ASCR	Single institute	18	215	1444	6.72	0.58	0.32	0.55	31%	30%
	National col.	30	349	2029	5.81	0.62	0.38	0.61	24%	35%
	International col.	52	602	10109	16.79	0.85	0.92	1.08	14%	26%
Institute of Biophysics ASCR	Single institute	22	252	3210	12.74	0.98	0.84	0.85	21%	31%
	National col.	33	369	2763	7.49	0.84	0.64	0.76	24%	41%
	International col.	45	504	7857	15.59	1.07	1.15	1.07	15%	35%
VSB-Technical University of Ostrava	Single institute	36	376	527	1.40	0.72	0.29	0.40	64%	39%
	National col.	32	331	741	2.24	0.87	0.42	0.48	54%	34%
	International col.	32	334	1178	3.53	0.99	0.82	0.83	50%	32%
Institute of Mathematics ASCR	Single institute	29	305	912	2.99	1.05	0.79	0.76	47%	29%
	National col.	13	137	326	2.38	0.88	0.64	0.73	51%	32%
	International col.	57	596	2045	3.43	1.20	1.08	0.90	42%	35%
Astronomical Institute ASCR	Single institute	24	245	890	3.63	0.47	0.26	0.56	40%	36%
	National col.	8	78	259	3.32	0.56	0.32	0.57	50%	36%
	International col.	69	705	4070	5.77	0.54	0.49	0.90	27%	39%
	Single institute	12	121	635	5.25	0.96	0.45	0.47	43%	31%



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Institute of Inorganic Chemistry ASCR	Single institute	12	121	635	5.25	0.96	0.45	0.47	43%	31%
	National col.	40	403	1452	3.60	0.70	0.45	0.65	38%	39%
	International col.	48	483	1937	4.01	0.50	0.51	1.02	31%	51%
National Institute of Public Health and regional hygienic stations	Single institute	11	107	590	5.51	0.76	0.38	0.50	31%	16%
	National col.	45	445	2189	4.92	0.80	0.50	0.62	31%	28%
	International col.	44	442	5615	12.70	1.07	1.05	0.99	14%	27%
Institute of Botany ASCR	Single institute	26	257	1352	5.26	0.81	0.49	0.61	21%	31%
	National col.	41	403	1939	4.81	0.81	0.77	0.96	25%	34%
	International col.	33	323	2231	6.91	1.20	1.04	0.87	28%	30%
Institute of Experimental Medicine ASCR	Single institute	10	92	803	8.73	0.71	0.53	0.75	25%	25%
	National col.	43	415	3002	7.23	0.83	0.49	0.59	24%	30%
	International col.	47	457	6467	14.15	0.98	0.92	0.94	13%	29%
Institute of Physics of Materials ASCR	Single institute	29	270	863	3.20	0.57	0.49	0.85	36%	33%
	National col.	20	184	407	2.21	0.72	0.43	0.60	48%	37%
	International col.	51	472	2891	6.13	0.95	0.89	0.94	32%	36%
Institute for Clinical and Experimental Medicine	Single institute	19	175	1043	5.96	0.81	0.43	0.53	36%	10%
	National col.	41	375	1622	4.33	0.81	0.45	0.56	32%	21%
	International col.	39	358	6897	19.27	1.43	1.62	1.13	18%	18%
University of West Bohemia in Plzen	Single institute	32	276	1104	4.00	1.71	1.01	0.59	62%	20%
	National col.	32	280	534	1.91	0.90	0.44	0.49	74%	44%
	International col.	36	311	1614	5.19	1.53	1.41	0.92	41%	27%
Institute of Experimental Botany ASCR	Single institute	16	133	908	6.83	0.86	0.48	0.56	24%	29%
	National col.	36	303	1577	5.20	0.85	0.53	0.62	27%	33%
	International col.	48	409	5829	14.25	1.12	1.16	1.03	16%	26%
Veterinary Research Institute	Single institute	29	228	939	4.12	1.09	0.61	0.56	36%	39%
	National col.	46	357	1418	3.97	0.93	0.61	0.66	35%	38%
	International col.	25	192	1589	8.28	1.00	0.90	0.90	22%	40%
Institute of Information Theory and Automation ASCR	Single institute	31	236	1107	4.69	1.04	1.05	1.00	45%	21%
	National col.	20	155	310	2.00	0.70	0.41	0.58	54%	35%
	International col.	49	378	2179	5.76	1.22	1.38	1.13	35%	28%
Institute of Animal Physiology and Genetics ASCR	Single institute	14	104	629	6.05	1.01	0.50	0.50	24%	28%
	National col.	33	248	946	3.81	0.72	0.41	0.57	26%	35%
	International col.	53	403	3548	8.80	0.92	0.64	0.70	20%	34%
Crop Research Institute	Single institute	52	354	654	1.85	0.81	0.26	0.32	43%	35%
	National col.	28	189	474	2.51	0.91	0.48	0.52	47%	44%
	International col.	20	132	780	5.91	1.13	0.93	0.82	35%	28%
General University Hospital Prague	Single institute	7	44	143	3.25	0.69	0.26	0.38	39%	12%
	National col.	60	395	1573	3.98	0.96	0.40	0.42	44%	19%
	International col.	33	218	3157	14.48	1.18	1.31	1.11	19%	21%
University Hospital Brno	Single institute	13	80	244	3.05	0.88	0.24	0.27	41%	9%
	National col.	64	402	1441	3.58	0.82	0.37	0.46	38%	16%

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	International col.	24	149	1935	12.99	1.26	1.29	1.02	23%	15%
University Hospital Motol	Single institute	12	78	376	4.82	1.04	0.45	0.43	38%	15%
	National col.	54	339	1332	3.93	0.86	0.42	0.48	38%	20%
	International col.	33	209	2716	13.00	0.98	1.16	1.19	20%	23%
Institute of Systems Biology and Ecology ASCR	Single institute	29	176	951	5.40	0.94	0.39	0.42	28%	27%
	National col.	37	226	932	4.12	0.99	0.62	0.63	40%	30%
	International col.	35	212	1340	6.32	1.01	0.85	0.85	28%	34%
University of Defense	Single institute	23	136	614	4.51	0.92	0.34	0.37	38%	58%
	National col.	51	307	658	2.14	0.69	0.26	0.37	47%	50%
	International col.	27	161	1491	9.26	1.11	1.03	0.93	24%	32%
Institute of Computer Science ASCR	Single institute	37	225	515	2.29	0.68	0.56	0.82	53%	36%
	National col.	30	183	706	3.86	1.16	0.59	0.51	49%	19%
	International col.	32	194	1395	7.19	1.30	1.53	1.18	30%	28%
Institute of Animal Science	Single institute	34	202	423	2.09	0.73	0.30	0.41	41%	31%
	National col.	39	229	614	2.68	0.74	0.44	0.60	36%	32%
	International col.	27	160	1344	8.40	0.95	0.79	0.83	22%	25%
Institute of Hematology and Blood Transfusion	Single institute	25	147	643	4.37	0.72	0.27	0.38	41%	24%
	National col.	44	258	1201	4.66	0.67	0.33	0.49	28%	36%
	International col.	31	178	2073	11.65	0.70	0.70	1.01	17%	30%
Institute of Plasma Physics ASCR	Single institute	21	120	390	3.25	0.86	0.32	0.38	48%	28%
	National col.	16	90	192	2.13	0.73	0.29	0.40	57%	55%
	International col.	63	351	1186	3.38	0.98	0.58	0.59	48%	49%
University of Economics Prague	Single institute	71	390	209	0.54	0.68	0.10	0.15	72%	32%
	National col.	22	124	197	1.59	1.06	0.32	0.30	62%	23%
	International col.	7	39	116	2.97	1.00	0.54	0.54	49%	11%
Institute of Analytical Chemistry ASCR	Single institute	38	204	2129	10.44	0.65	0.68	1.05	15%	22%
	National col.	33	178	959	5.39	0.69	0.52	0.76	29%	30%
	International col.	30	160	1675	10.47	0.84	1.08	1.29	12%	27%
Institute of Vertebrate Biology ASCR	Single institute	16	86	750	8.72	1.49	1.19	0.80	23%	14%
	National col.	41	217	610	2.81	0.96	0.54	0.57	33%	33%
	International col.	43	231	1572	6.81	1.25	0.96	0.77	29%	36%
Czech Geological Survey	Single institute	15	80	302	3.78	0.69	0.46	0.67	33%	32%
	National col.	34	178	455	2.56	0.65	0.47	0.73	42%	36%
	International col.	51	267	2658	9.96	1.09	1.25	1.14	19%	28%
Institute of Geophysics ASCR	Single institute	34	179	805	4.50	0.71	0.37	0.51	30%	37%
	National col.	14	72	305	4.24	1.02	0.68	0.66	38%	33%
	International col.	52	273	1365	5.00	0.80	0.49	0.61	26%	40%
Institute of Photonics and Electronics ASCR	Single institute	33	166	1113	6.70	1.17	0.93	0.79	47%	22%
	National col.	25	129	486	3.77	0.83	0.53	0.64	46%	29%
	International col.	42	215	1290	6.00	0.90	1.01	1.12	30%	28%
Tomas Bata University in Zlin	Single institute	28	135	193	1.43	0.53	0.29	0.54	56%	39%

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	National col.	32	156	255	1.63	0.56	0.36	0.63	53%	52%
	International col.	40	196	760	3.88	0.86	0.81	0.95	43%	31%
ASCR unresolved	Single institute	17	82	517	6.30	1.23	0.88	0.72	60%	14%
	National col.	31	151	555	3.68	0.68	0.35	0.52	37%	28%
	International col.	52	249	2549	10.24	0.96	0.91	0.95	21%	28%
University Hospital Hradec Kralove	Single institute	8	40	92	2.30	0.72	0.27	0.38	45%	16%
	National col.	70	334	819	2.45	0.70	0.29	0.42	43%	27%
	International col.	22	105	2102	20.02	2.35	2.09	0.89	25%	11%
Technical University of Liberec	Single institute	28	136	161	1.18	0.67	0.31	0.47	67%	25%
	National col.	29	139	159	1.14	0.49	0.30	0.60	58%	44%
	International col.	42	203	766	3.77	0.94	0.66	0.70	45%	40%
Institute of Atmospheric Physics ASCR	Single institute	30	142	612	4.31	0.86	0.39	0.46	31%	35%
	National col.	15	74	231	3.12	0.64	0.48	0.74	38%	41%
	International col.	55	262	855	3.26	0.89	0.43	0.48	39%	45%
University Hospital Olomouc	Single institute	12	53	174	3.28	0.95	0.28	0.29	49%	4%
	National col.	69	312	783	2.51	0.80	0.31	0.39	52%	18%
	International col.	19	88	835	9.49	0.90	0.90	1.00	26%	23%
Institute of Geology ASCR	Single institute	15	56	173	3.09	0.66	0.33	0.49	34%	29%
	National col.	32	122	250	2.05	0.60	0.42	0.70	50%	43%
	International col.	54	207	896	4.33	0.85	0.65	0.77	33%	34%
Institute of Endocrinology	Single institute	24	82	652	7.95	0.81	0.44	0.54	24%	17%
	National col.	53	181	1016	5.61	0.71	0.40	0.56	19%	24%
	International col.	24	81	846	10.44	1.02	0.55	0.54	12%	32%
National Museum	Single institute	18	59	57	0.97	0.40	0.22	0.57	64%	38%
	National col.	31	102	205	2.01	0.77	0.47	0.61	49%	32%
	International col.	51	165	334	2.02	0.74	0.40	0.54	52%	69%
Silesian University in Opava	Single institute	44	141	246	1.74	0.46	0.30	0.65	45%	54%
	National col.	7	23	67	2.91	0.44	0.54	1.23	35%	32%
	International col.	49	159	461	2.90	0.57	0.49	0.86	43%	43%
Jan Evangelista Purkyne University in Usti nad Labem	Single institute	20	63	289	4.59	0.91	0.53	0.58	62%	12%
	National col.	51	159	277	1.74	0.55	0.36	0.66	55%	49%
	International col.	29	91	379	4.16	0.78	0.69	0.89	35%	35%
Institute of Thermomechanics ASCR	Single institute	30	93	229	2.46	0.71	0.52	0.73	59%	20%
	National col.	35	109	110	1.01	0.37	0.18	0.50	61%	52%
	International col.	35	107	282	2.64	0.63	0.52	0.83	49%	37%
Masaryk Memorial Cancer Institute	Single institute	10	30	180	6.00	0.56	0.31	0.55	33%	14%
	National col.	44	135	700	5.19	0.71	0.36	0.50	26%	29%
	International col.	46	140	4016	28.69	1.71	2.29	1.34	12%	14%
University Hospital in Plzen	Single institute	16	49	194	3.96	1.07	0.53	0.49	47%	7%
	National col.	49	147	469	3.19	0.89	0.40	0.45	40%	15%
	International col.	34	101	927	9.18	1.06	0.87	0.83	23%	17%

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Institution	Type Coop.	%	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
Institute of Scientific Instruments ASCR	Single institute	31	87	219	2.52	0.59	0.36	0.61	37%	41%
	National col.	27	76	210	2.76	0.67	0.41	0.61	38%	45%
	International col.	42	119	705	5.92	0.83	0.74	0.89	41%	38%
Na Homolce Hospital	Single institute	14	37	188	5.08	1.20	0.49	0.41	49%	11%
	National col.	56	151	942	6.24	1.16	0.62	0.53	38%	14%
	International col.	31	84	1021	12.15	1.26	1.43	1.13	20%	18%
Institute of Rock Structure and Mechanics ASCR	Single institute	27	67	55	0.82	0.28	0.13	0.47	60%	40%
	National col.	49	120	284	2.37	0.56	0.33	0.59	51%	32%
	International col.	24	60	197	3.28	0.76	0.50	0.66	43%	34%
University of Ostrava	Single institute	37	91	172	1.89	0.80	0.46	0.57	63%	30%
	National col.	35	87	338	3.89	0.98	0.61	0.62	39%	33%
	International col.	28	68	389	5.72	0.88	1.07	1.21	44%	28%
CERGE-Economics Institute ASCR	Single institute	27	62	65	1.05	0.53	0.16	0.30	60%	29%
	National col.	29	67	78	1.16	0.86	0.19	0.22	52%	14%
	International col.	45	104	565	5.43	0.81	0.97	1.20	34%	17%
St. Anne's University Hospital Brno	Single institute	20	45	73	1.62	0.66	0.11	0.16	62%	17%
	National col.	55	124	634	5.11	1.10	0.53	0.48	44%	12%
	International col.	26	58	562	9.69	1.11	1.07	0.97	26%	16%
Institute of Psychology ASCR	Single institute	55	122	153	1.25	1.47	0.13	0.09	55%	40%
	National col.	36	79	108	1.37	0.92	0.15	0.17	51%	35%
	International col.	9	21	309	14.71	2.52	1.55	0.62	48%	14%
Prague Psychiatric Centre	Single institute	25	56	138	2.46	0.72	0.18	0.25	54%	28%
	National col.	51	113	388	3.43	0.64	0.36	0.56	44%	28%
	International col.	24	53	871	16.43	1.47	1.43	0.97	23%	15%
Institute of Sociology ASCR	Single institute	85	180	198	1.10	1.10	0.22	0.20	49%	36%
	National col.	8	18	24	1.33	1.78	0.39	0.22	50%	29%
	International col.	7	15	11	0.73	0.33	0.13	0.38	40%	45%
Czech National Bank	Single institute	54	113	97	0.86	1.34	0.14	0.11	62%	28%
	National col.	35	74	70	0.95	1.39	0.22	0.16	62%	26%
	International col.	11	24	35	1.46	1.12	0.26	0.23	63%	10%
University Hospital Kralovske Vinohrady	Single institute	11	21	99	4.71	1.04	0.38	0.37	52%	13%
	National col.	57	115	467	4.06	1.08	0.41	0.38	40%	17%
	International col.	32	64	1040	16.25	1.20	1.81	1.51	30%	15%
Zentiva	Single institute	28	54	237	4.39	0.72	0.23	0.32	30%	21%
	National col.	52	99	279	2.82	0.72	0.26	0.36	38%	39%
	International col.	20	39	193	4.95	1.04	0.72	0.69	31%	33%
Institute of Philosophy ASCR	Single institute	84	150	51	0.34	1.22	0.24	0.20	76%	29%
	National col.	15	26	5	0.19	0.61	0.20	0.32	85%	64%
	International col.	1	2	0	0.00	0.00	0.00	0.18	100%	
Research Institute of Organic Syntheses	Single institute	4	7	29	4.14	1.01	0.36	0.36	0%	36%
	National col.	49	87	258	2.97	0.75	0.40	0.53	44%	48%

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Institution	Type Coop.	%	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
	International col.	47	83	327	3.94	0.76	0.42	0.55	39%	49%
Institute for Postgraduate Medical Education	Single institute	11	19	49	2.58	0.99	0.17	0.17	68%	14%
	National col.	62	107	496	4.64	0.79	0.36	0.45	39%	20%
	International col.	27	47	919	19.55	1.51	1.29	0.85	17%	20%
Nuclear Research Institute Rez	Single institute	27	45	54	1.20	0.56	0.28	0.50	64%	21%
	National col.	19	32	85	2.66	1.09	0.49	0.45	53%	36%
	International col.	54	91	159	1.75	0.68	0.39	0.57	43%	56%
Faculty Hospital Na Bulovce	Single institute	13	21	113	5.38	0.69	0.31	0.46	67%	7%
	National col.	57	95	326	3.43	0.76	0.32	0.42	44%	20%
	International col.	31	51	794	15.57	1.20	1.33	1.11	24%	18%
University Hospital Ostrava	Single institute	13	22	25	1.14	0.59	0.07	0.12	55%	19%
	National col.	64	105	435	4.14	1.18	0.48	0.41	55%	11%
	International col.	23	38	796	20.95	1.62	2.00	1.23	26%	15%
University of Hradec Kralove	Single institute	30	49	28	0.57	0.63	0.15	0.24	71%	24%
	National col.	44	73	189	2.59	0.63	0.49	0.77	66%	31%
	International col.	26	43	196	4.56	0.77	0.78	1.01	35%	39%
State Veterinary Administration of the Czech Republic	Single institute	7	12	52	4.33	2.26	0.80	0.35	17%	19%
	National col.	70	114	329	2.89	0.98	0.58	0.60	28%	48%
	International col.	22	36	287	7.97	1.40	1.11	0.79	14%	47%
Teva Czech Industries	Single institute	3	4	38	9.50	0.92	0.54	0.59	0%	5%
	National col.	74	117	391	3.34	0.59	0.24	0.41	37%	40%
	International col.	23	37	222	6.00	0.70	0.45	0.65	24%	47%
Institute of Rheumatology	Single institute	11	17	161	9.47	0.97	0.66	0.69	24%	9%
	National col.	31	47	311	6.62	0.77	0.57	0.74	30%	10%
	International col.	58	88	3410	38.75	2.33	2.73	1.17	7%	17%
Central Military Hospital Prague	Single institute	17	25	27	1.08	0.90	0.10	0.11	68%	23%
	National col.	69	103	446	4.33	1.08	0.49	0.45	41%	15%
	International col.	14	21	376	17.90	1.43	1.75	1.22	24%	10%
Research Institute for Cattle Breeding	Single institute	40	58	79	1.36	1.19	0.16	0.14	52%	43%
	National col.	48	69	107	1.55	0.85	0.34	0.39	48%	38%
	International col.	12	18	31	1.72	1.23	0.46	0.37	44%	24%
VUC Praha	Single institute	98	132	33	0.25	0.82	0.03	0.04	83%	62%
	National col.	2	3	1	0.33	4.56	0.11	0.02	67%	50%
Thomayer University Hospital	Single institute	7	9	2	0.22	0.08	0.01	0.19	78%	0%
	National col.	70	93	294	3.16	1.08	0.32	0.30	56%	11%
	International col.	23	31	254	8.19	1.03	0.86	0.83	26%	15%
Czech Hydrometeorological Institute	Single institute	12	15	42	2.80	0.44	0.37	0.84	40%	13%
	National col.	35	44	105	2.39	0.62	0.26	0.42	48%	40%
	International col.	54	68	667	9.81	1.35	1.41	1.05	22%	29%
Institute of Hydrodynamics ASCR	Single institute	32	40	78	1.95	0.42	0.39	0.92	58%	29%
	National col.	24	30	97	3.23	0.73	0.49	0.68	53%	27%

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<b>Institution</b>	<b>Type Coop.</b>	<b>%</b>	<b>P</b>	<b>C-sc</b>	<b>CPP</b>	<b>CPP/ JCSm</b>	<b>CPP/ FCSm</b>	<b>JCSm/ FCSm</b>	<b>%nc</b>	<b>%sc</b>
	International col.	44	55	231	4.20	0.72	0.50	0.69	35%	27%
Military Geography and Hydrometeorology Office Dobruska	Single institute	22	27	27	1.00	0.32	0.07	0.22	52%	33%
	National col.	56	69	101	1.46	0.58	0.23	0.40	54%	63%
	International col.	23	28	84	3.00	0.88	0.32	0.37	32%	43%
Czech Metrology Institute	Single institute	26	31	22	0.71	0.32	0.16	0.51	65%	44%
	National col.	38	45	41	0.91	0.35	0.18	0.53	56%	53%
	International col.	37	44	99	2.25	0.80	0.46	0.58	50%	48%
Institute of Geonics ASCR	Single institute	41	47	143	3.04	0.64	0.56	0.87	57%	22%
	National col.	36	41	73	1.78	0.73	0.39	0.53	68%	42%
	International col.	23	26	51	1.96	0.46	0.43	0.94	42%	50%
Institute of Theoretical and Applied Mechanics ASCR	Single institute	62	66	145	2.20	0.31	0.30	0.96	33%	27%
	National col.	13	14	28	2.00	0.66	0.43	0.66	50%	40%
	International col.	25	27	104	3.85	0.88	0.78	0.88	48%	36%
Moravian Museum	Single institute	24	24	32	1.33	0.87	0.16	0.18	58%	26%
	National col.	20	20	27	1.35	0.63	0.38	0.60	50%	23%
	International col.	57	58	175	3.02	0.77	0.38	0.50	34%	41%
National Radiation Protection Institute	Single institute	32	31	51	1.65	0.57	0.24	0.42	55%	22%
	National col.	33	32	82	2.56	0.66	0.37	0.57	47%	16%
	International col.	34	33	288	8.73	2.33	1.26	0.54	30%	28%

## Appendix G - Temporal evolution of the percentage of publications by collaboration – block approach

Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Academy of Sciences (global)	Single institute	38%	36%	32%	29%	28%	26%	25%	23%	21%	21%	20%	19%	18%	18%
	National col.	15%	16%	18%	19%	20%	20%	21%	23%	24%	25%	26%	27%	27%	28%
	International col.	47%	48%	50%	52%	53%	54%	54%	54%	54%	54%	53%	54%	54%	54%
Charles University in Prague	Single institute	30%	29%	27%	26%	25%	24%	23%	21%	20%	19%	18%	18%	17%	16%
	National col.	27%	28%	28%	29%	29%	30%	31%	34%	35%	36%	36%	36%	38%	38%
	International col.	43%	43%	45%	45%	46%	46%	46%	45%	45%	46%	46%	46%	46%	46%
Institute of Physics ASCR	Single institute	21%	19%	16%	13%	12%	11%	12%	12%	12%	12%	12%	11%	9%	9%
	National col.	11%	12%	13%	13%	13%	12%	11%	13%	13%	14%	15%	14%	16%	16%
	International col.	68%	69%	72%	74%	76%	77%	77%	75%	75%	74%	73%	75%	75%	74%
Masaryk University	Single institute	40%	39%	38%	36%	36%	33%	31%	29%	27%	27%	26%	25%	24%	22%
	National col.	23%	25%	27%	27%	28%	29%	32%	35%	37%	37%	37%	38%	39%	41%
	International col.	37%	35%	35%	37%	36%	39%	37%	37%	37%	36%	37%	37%	37%	37%
Institute of Chemical Technology Prague	Single institute	39%	39%	37%	37%	37%	36%	34%	31%	30%	29%	29%	28%	25%	24%
	National col.	35%	36%	38%	39%	40%	41%	41%	44%	42%	41%	43%	43%	46%	47%
	International col.	27%	26%	25%	24%	24%	23%	26%	26%	28%	30%	28%	30%	29%	29%
Czech Technical University in Prague	Single institute	41%	39%	33%	30%	28%	28%	31%	35%	34%	32%	31%	28%	27%	27%
	National col.	27%	29%	30%	29%	27%	24%	24%	23%	24%	23%	24%	24%	25%	26%
	International col.	32%	32%	38%	42%	45%	48%	45%	42%	42%	44%	46%	48%	48%	47%
Palacky University Olomouc	Single institute	48%	43%	41%	39%	38%	35%	34%	31%	27%	26%	24%	22%	22%	22%
	National col.	26%	28%	31%	31%	30%	32%	30%	35%	37%	39%	41%	41%	42%	41%
	International col.	26%	29%	27%	30%	32%	32%	36%	34%	35%	35%	35%	37%	37%	37%
J. Heyrovsky Institute of Physical Chemistry ASCR	Single institute	28%	27%	26%	25%	24%	22%	19%	18%	16%	14%	16%	13%	13%	14%
	National col.	14%	15%	16%	15%	17%	18%	19%	23%	26%	26%	26%	24%	23%	24%

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Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
	International col.	58%	57%	58%	60%	59%	60%	62%	59%	58%	60%	59%	63%	64%	63%
Biology Centre ASCR	Single institute	46%	41%	35%	32%	30%	28%	26%	23%	19%	17%	14%	11%	10%	10%
	National col.	14%	16%	19%	22%	25%	29%	29%	31%	34%	35%	39%	40%	40%	36%
	International col.	40%	42%	46%	46%	44%	44%	45%	46%	47%	48%	48%	49%	50%	54%
University of South Bohemia in Ceske Budejovice	Single institute	50%	42%	33%	29%	22%	20%	18%	15%	12%	10%	9%	9%	10%	12%
	National col.	31%	36%	38%	41%	43%	44%	46%	48%	49%	49%	51%	49%	48%	44%
	International col.	19%	22%	29%	30%	34%	35%	36%	38%	39%	40%	39%	42%	43%	44%
Institute of Organic Chemistry and Biochemistry ASCR	Single institute	37%	35%	33%	31%	28%	26%	21%	19%	16%	16%	18%	17%	16%	15%
	National col.	23%	26%	29%	33%	37%	39%	39%	40%	42%	40%	41%	39%	38%	38%
	International col.	40%	39%	38%	36%	34%	35%	40%	41%	42%	44%	41%	44%	46%	47%
Institute of Macromolecular Chemistry ASCR	Single institute	43%	41%	36%	33%	30%	25%	22%	20%	21%	22%	22%	22%	20%	18%
	National col.	16%	16%	19%	21%	23%	27%	28%	29%	32%	31%	34%	35%	37%	39%
	International col.	42%	43%	44%	45%	48%	49%	50%	50%	48%	47%	44%	43%	44%	43%
Institute of Microbiology ASCR	Single institute	33%	30%	28%	23%	20%	21%	20%	20%	20%	17%	18%	19%	19%	20%
	National col.	22%	25%	27%	29%	31%	29%	31%	32%	31%	34%	34%	33%	36%	38%
	International col.	45%	45%	46%	48%	48%	50%	49%	47%	48%	48%	48%	47%	45%	42%
University of Pardubice	Single institute	44%	45%	39%	35%	34%	28%	28%	29%	26%	24%	23%	22%	24%	26%
	National col.	29%	30%	31%	29%	31%	34%	36%	37%	39%	39%	41%	44%	43%	43%
	International col.	27%	25%	31%	36%	34%	38%	36%	34%	35%	37%	36%	34%	33%	31%
Institute of Physiology ASCR	Single institute	31%	30%	29%	27%	30%	26%	23%	20%	16%	18%	18%	20%	17%	16%
	National col.	22%	23%	23%	24%	22%	21%	27%	31%	35%	40%	38%	38%	39%	39%
	International col.	48%	46%	47%	49%	48%	53%	51%	50%	49%	42%	44%	43%	44%	45%
Nuclear Physics Institute ASCR	Single institute	18%	19%	17%	16%	16%	14%	12%	12%	12%	12%	13%	12%	12%	12%
	National col.	21%	21%	22%	19%	17%	15%	15%	16%	15%	14%	17%	20%	22%	26%
	International col.	62%	60%	61%	65%	68%	70%	73%	72%	73%	74%	69%	68%	66%	63%
Brno University of Technology	Single institute	48%	47%	42%	42%	39%	36%	37%	37%	39%	42%	40%	39%	40%	38%
	National col.	25%	29%	33%	33%	33%	33%	34%	33%	32%	31%	28%	30%	30%	32%



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Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
	International col.	27%	25%	26%	25%	28%	31%	29%	31%	28%	27%	32%	30%	31%	30%
University of Veterinary and Pharmaceutical Sciences Brno	Single institute	61%	54%	40%	29%	29%	31%	35%	31%	31%	27%	22%	21%	19%	18%
	National col.	27%	33%	43%	50%	51%	49%	47%	55%	57%	58%	60%	57%	56%	57%
	International col.	13%	13%	16%	21%	20%	20%	17%	14%	12%	16%	18%	22%	25%	25%
Mendel University in Brno	Single institute	76%	72%	63%	58%	50%	53%	50%	48%	44%	36%	31%	26%	28%	27%
	National col.	11%	13%	20%	27%	34%	35%	35%	36%	37%	42%	46%	50%	50%	51%
	International col.	13%	15%	16%	16%	16%	13%	15%	17%	19%	22%	23%	24%	22%	22%
Czech University of Life Sciences Prague	Single institute	70%	69%	66%	65%	62%	60%	60%	57%	52%	48%	40%	34%	38%	36%
	National col.	15%	17%	20%	22%	25%	27%	28%	31%	35%	39%	43%	49%	47%	48%
	International col.	15%	14%	14%	13%	13%	13%	11%	12%	13%	13%	17%	17%	14%	16%
Institute of Chemical Process Fundamentals ASCR	Single institute	51%	47%	38%	34%	32%	30%	29%	28%	29%	29%	27%	25%	24%	22%
	National col.	16%	17%	21%	23%	23%	24%	24%	27%	28%	28%	28%	27%	28%	31%
	International col.	33%	36%	41%	44%	45%	46%	47%	46%	43%	43%	45%	48%	48%	48%
Institute of Molecular Genetics ASCR	Single institute	24%	24%	25%	24%	22%	21%	21%	19%	19%	18%	17%	15%	14%	13%
	National col.	23%	23%	26%	27%	29%	31%	30%	30%	31%	32%	33%	35%	32%	32%
	International col.	53%	53%	49%	48%	48%	48%	49%	51%	50%	50%	50%	50%	54%	55%
Institute of Biophysics ASCR	Single institute	35%	32%	31%	28%	24%	24%	23%	20%	21%	18%	18%	19%	21%	21%
	National col.	18%	20%	25%	28%	34%	35%	37%	34%	34%	32%	34%	34%	35%	36%
	International col.	47%	47%	44%	43%	42%	40%	40%	45%	46%	50%	49%	46%	45%	42%
VSB-Technical University of Ostrava	Single institute	48%	47%	41%	40%	39%	42%	44%	40%	40%	36%	33%	33%	32%	32%
	National col.	25%	27%	26%	27%	28%	27%	28%	32%	33%	34%	35%	32%	32%	34%
	International col.	27%	27%	32%	34%	33%	31%	28%	28%	28%	30%	33%	35%	36%	34%
Institute of Mathematics ASCR	Single institute	39%	37%	37%	37%	40%	40%	39%	33%	28%	21%	21%	21%	20%	25%
	National col.	11%	13%	13%	16%	14%	13%	11%	9%	12%	12%	14%	14%	15%	14%
	International col.	50%	50%	50%	48%	46%	47%	50%	57%	60%	67%	65%	65%	65%	61%
Astronomical Institute ASCR	Single institute	39%	39%	32%	32%	28%	24%	26%	23%	21%	21%	18%	17%	18%	17%

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Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
	National col.	8%	7%	7%	5%	5%	6%	6%	7%	6%	6%	6%	6%	8%	9%
	International col.	53%	53%	61%	63%	66%	70%	68%	70%	74%	74%	76%	77%	74%	73%
Institute of Inorganic Chemistry ASCR	Single institute	28%	26%	24%	19%	16%	15%	14%	11%	10%	8%	8%	7%	7%	7%
	National col.	30%	31%	36%	36%	33%	36%	34%	40%	44%	41%	43%	43%	42%	46%
	International col.	42%	43%	41%	45%	51%	49%	52%	49%	46%	51%	48%	50%	51%	47%
National Institute of Public Health and regional hygienic stations	Single institute	24%	23%	17%	19%	17%	14%	15%	10%	9%	7%	6%	4%	5%	6%
	National col.	28%	31%	30%	33%	38%	37%	44%	50%	49%	53%	52%	50%	51%	50%
	International col.	48%	46%	52%	48%	45%	49%	41%	40%	42%	40%	42%	46%	44%	44%
Institute of Botany ASCR	Single institute	71%	70%	66%	62%	50%	46%	40%	34%	31%	25%	20%	17%	15%	12%
	National col.	13%	13%	15%	15%	22%	24%	33%	43%	45%	52%	51%	48%	48%	46%
	International col.	16%	17%	20%	23%	28%	30%	27%	23%	25%	24%	29%	35%	37%	42%
Institute of Experimental Medicine ASCR	Single institute	16%	15%	12%	12%	13%	10%	9%	8%	7%	7%	6%	5%	7%	8%
	National col.	35%	38%	41%	42%	45%	50%	48%	50%	47%	44%	42%	41%	42%	42%
	International col.	50%	47%	47%	47%	42%	41%	43%	42%	45%	49%	52%	54%	51%	50%
'Institute of Physics of Materials ASCR	Single institute	46%	45%	41%	36%	34%	28%	28%	25%	26%	29%	26%	24%	21%	17%
	National col.	14%	16%	13%	13%	15%	14%	15%	15%	15%	15%	18%	23%	24%	32%
	International col.	39%	39%	46%	51%	51%	58%	57%	60%	59%	55%	56%	53%	54%	51%
Institute for Clinical and Experimental Medicine	Single institute	25%	31%	36%	37%	36%	33%	28%	23%	23%	18%	16%	16%	12%	11%
	National col.	39%	36%	30%	29%	26%	25%	26%	32%	37%	44%	47%	47%	48%	49%
	International col.	36%	33%	34%	34%	38%	42%	46%	46%	40%	39%	37%	38%	41%	40%
University of West Bohemia in Plzen	Single institute	51%	44%	32%	26%	31%	32%	35%	38%	42%	42%	37%	33%	28%	25%
	National col.	20%	20%	26%	25%	25%	27%	27%	29%	26%	21%	31%	33%	37%	41%
	International col.	29%	36%	42%	50%	45%	41%	38%	33%	33%	36%	32%	34%	35%	34%
Institute of Experimental Botany ASCR	Single institute	36%	29%	25%	22%	20%	21%	24%	19%	17%	16%	10%	8%	8%	6%
	National col.	21%	21%	31%	33%	33%	37%	31%	35%	36%	38%	39%	38%	39%	41%
	International col.	43%	50%	44%	45%	47%	42%	45%	46%	47%	46%	50%	53%	52%	53%
Veterinary Research Institute	Single institute	49%	45%	34%	36%	33%	32%	33%	33%	31%	32%	28%	24%	23%	20%

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Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
	National col.	36%	40%	50%	48%	46%	48%	44%	41%	43%	39%	43%	47%	49%	52%
	International col.	14%	14%	16%	16%	20%	20%	23%	26%	26%	29%	29%	29%	28%	28%
Institute of Information Theory and Automation ASCR	Single institute	52%	47%	49%	38%	34%	28%	22%	24%	22%	26%	28%	24%	27%	25%
	National col.	11%	12%	12%	20%	22%	23%	25%	20%	20%	20%	19%	24%	24%	25%
	International col.	36%	41%	39%	43%	45%	49%	53%	56%	58%	54%	53%	52%	50%	51%
Institute of Animal Physiology and Genetics ASCR	Single institute	21%	20%	19%	19%	19%	20%	19%	17%	14%	9%	10%	7%	6%	8%
	National col.	26%	30%	31%	34%	31%	29%	28%	28%	30%	32%	37%	39%	40%	39%
	International col.	53%	50%	50%	47%	50%	51%	53%	55%	56%	59%	53%	54%	54%	53%
Crop Research Institute	Single institute	78%	78%	74%	72%	72%	68%	68%	62%	58%	51%	47%	37%	34%	33%
	National col.	12%	11%	13%	17%	15%	18%	21%	23%	24%	27%	28%	34%	39%	42%
	International col.	10%	11%	13%	12%	13%	14%	12%	14%	18%	22%	26%	29%	27%	26%
General University Hospital Prague	Single institute	11%	18%	19%	14%	14%	9%	8%	9%	9%	9%	7%	5%	4%	3%
	National col.	49%	44%	40%	45%	52%	59%	62%	67%	62%	62%	63%	59%	60%	63%
	International col.	40%	39%	40%	41%	34%	32%	30%	24%	28%	29%	29%	36%	36%	34%
University Hospital Brno	Single institute	36%	28%	23%	29%	23%	21%	20%	11%	12%	13%	9%	8%	9%	8%
	National col.	45%	54%	52%	52%	53%	57%	59%	65%	66%	61%	65%	67%	67%	68%
	International col.	18%	17%	25%	18%	24%	22%	21%	23%	21%	26%	26%	25%	24%	24%
University Hospital Motol	Single institute	24%	29%	29%	31%	29%	24%	20%	15%	14%	10%	10%	9%	7%	8%
	National col.	54%	48%	44%	42%	36%	41%	49%	51%	54%	52%	53%	54%	57%	60%
	International col.	22%	23%	26%	27%	35%	34%	31%	34%	32%	38%	37%	38%	35%	33%
Institute of Systems Biology and Ecology ASCR	Single institute	68%	64%	57%	49%	45%	47%	44%	38%	26%	9%	6%	4%	6%	4%
	National col.	13%	18%	20%	23%	27%	24%	29%	35%	42%	53%	53%	49%	47%	50%
	International col.	19%	19%	23%	27%	27%	29%	27%	27%	32%	38%	41%	47%	47%	46%
University of Defense	Single institute	66%	62%	58%	52%	41%	30%	28%	20%	25%	29%	27%	23%	16%	11%
	National col.	26%	28%	31%	33%	39%	41%	38%	44%	37%	41%	43%	47%	58%	61%
	International col.	8%	9%	11%	15%	20%	29%	33%	35%	38%	30%	30%	30%	27%	28%

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Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Institute of Computer Science ASCR	Single institute	60%	51%	51%	48%	40%	41%	35%	36%	36%	36%	38%	36%	36%	30%
	National col.	16%	23%	20%	19%	23%	19%	21%	23%	28%	33%	33%	35%	35%	38%
	International col.	24%	26%	28%	33%	38%	40%	44%	41%	36%	31%	29%	29%	29%	32%
Institute of Animal Science	Single institute	65%	63%	54%	43%	35%	37%	33%	29%	28%	21%	24%	24%	23%	25%
	National col.	11%	14%	21%	25%	31%	29%	30%	42%	44%	51%	54%	52%	52%	51%
	International col.	23%	23%	25%	32%	34%	35%	37%	30%	29%	29%	22%	24%	24%	24%
Institute of Hematology and Blood Transfusion	Single institute	29%	31%	32%	32%	32%	28%	26%	24%	21%	25%	24%	25%	25%	20%
	National col.	32%	32%	31%	35%	43%	47%	51%	51%	51%	50%	50%	48%	48%	46%
	International col.	39%	37%	37%	33%	26%	25%	23%	25%	28%	25%	26%	27%	27%	34%
Institute of Plasma Physics ASCR	Single institute	50%	43%	31%	25%	29%	28%	26%	23%	20%	21%	19%	19%	20%	13%
	National col.	5%	8%	11%	17%	17%	19%	22%	18%	20%	19%	19%	18%	15%	14%
	International col.	45%	49%	58%	58%	53%	53%	52%	59%	60%	60%	62%	63%	65%	73%
University of Economics Prague	Single institute	95%	92%	86%	80%	78%	72%	64%	62%	54%	55%	55%	60%	69%	68%
	National col.	1%	3%	6%	13%	14%	23%	30%	33%	36%	33%	33%	29%	24%	26%
	International col.	4%	5%	7%	7%	8%	5%	6%	5%	9%	12%	12%	11%	7%	6%
Institute of Analytical Chemistry ASCR	Single institute	50%	47%	50%	50%	49%	50%	42%	35%	32%	32%	30%	30%	30%	29%
	National col.	21%	25%	24%	22%	28%	26%	29%	37%	40%	40%	42%	37%	36%	37%
	International col.	29%	29%	26%	27%	24%	25%	29%	28%	29%	28%	27%	32%	35%	34%
Institute of Vertebrate Biology ASCR	Single institute	50%	50%	58%	39%	32%	28%	26%	22%	19%	18%	15%	10%	10%	8%
	National col.	33%	33%	33%	36%	37%	36%	36%	38%	44%	47%	46%	45%	40%	38%
	International col.	17%	17%	8%	25%	31%	36%	38%	40%	38%	35%	40%	45%	51%	53%
Czech Geological Survey	Single institute	33%	29%	27%	22%	18%	20%	19%	17%	15%	11%	12%	12%	11%	11%
	National col.	16%	21%	27%	27%	30%	27%	25%	28%	26%	26%	26%	31%	37%	45%
	International col.	51%	51%	45%	51%	52%	53%	56%	56%	59%	62%	62%	57%	52%	44%
Institute of Geophysics ASCR	Single institute	51%	46%	42%	34%	41%	38%	40%	38%	32%	35%	30%	27%	28%	24%
	National col.	3%	4%	9%	11%	9%	11%	9%	9%	10%	11%	14%	17%	19%	24%
	International col.	46%	50%	49%	55%	50%	51%	51%	53%	57%	55%	55%	56%	53%	52%

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Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Institute of Photonics and Electronics ASCR	Single institute	37%	41%	41%	43%	41%	38%	36%	32%	30%	29%	31%	30%	30%	28%
	National col.	22%	19%	17%	15%	18%	21%	22%	24%	24%	27%	30%	32%	30%	30%
	International col.	41%	40%	42%	43%	41%	41%	42%	44%	46%	44%	39%	39%	41%	43%
Tomas Bata University in Zlin	Single institute	18%	27%	36%	33%	50%	47%	43%	37%	35%	32%	28%	26%	26%	24%
	National col.	45%	47%	36%	33%	40%	32%	29%	28%	26%	23%	23%	28%	31%	36%
	International col.	36%	27%	27%	33%	10%	21%	29%	35%	39%	45%	49%	46%	44%	40%
ASCR unresolved	Single institute	19%	17%	11%	13%	17%	17%	21%	20%	17%	18%	16%	17%	17%	15%
	National col.	31%	31%	33%	26%	27%	26%	24%	30%	31%	35%	39%	37%	35%	34%
	International col.	50%	52%	56%	61%	57%	57%	55%	50%	51%	46%	45%	46%	48%	51%
University Hospital Hradec Kralove	Single institute	33%	24%	17%	10%	7%	5%	4%	7%	6%	6%	6%	6%	7%	8%
	National col.	39%	58%	63%	71%	68%	65%	69%	66%	71%	70%	67%	72%	74%	72%
	International col.	28%	18%	20%	20%	25%	31%	27%	27%	23%	24%	27%	22%	19%	20%
Technical University of Liberec	Single institute	35%	32%	33%	28%	26%	29%	28%	37%	35%	33%	32%	26%	26%	25%
	National col.	18%	13%	10%	11%	15%	22%	26%	24%	24%	24%	28%	31%	32%	37%
	International col.	47%	55%	57%	61%	58%	49%	46%	39%	41%	43%	41%	43%	42%	38%
Institute of Atmospheric Physics ASCR	Single institute	51%	42%	39%	33%	33%	41%	44%	45%	38%	35%	32%	29%	23%	19%
	National col.	2%	6%	10%	11%	17%	15%	14%	15%	14%	16%	16%	15%	16%	18%
	International col.	46%	52%	51%	56%	49%	44%	42%	40%	48%	49%	52%	56%	62%	63%
University Hospital Olomouc	Single institute	30%	29%	28%	27%	29%	25%	18%	13%	11%	11%	9%	9%	8%	6%
	National col.	48%	50%	53%	54%	51%	49%	57%	62%	66%	69%	69%	72%	72%	76%
	International col.	22%	21%	19%	19%	20%	25%	25%	25%	23%	20%	22%	19%	20%	17%
Institute of Geology ASCR	Single institute	44%	34%	25%	25%	18%	21%	19%	17%	17%	16%	14%	11%	10%	6%
	National col.	21%	20%	19%	18%	12%	14%	22%	27%	34%	36%	29%	30%	30%	38%
	International col.	36%	46%	56%	57%	69%	65%	59%	56%	49%	48%	57%	59%	61%	55%
Institute of Endocrinology	Single institute	36%	40%	36%	33%	28%	18%	22%	20%	18%	23%	19%	18%	25%	21%
	National col.	36%	34%	40%	40%	45%	53%	53%	58%	61%	58%	62%	61%	55%	55%

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Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
	International col.	28%	26%	25%	27%	28%	29%	25%	21%	21%	19%	19%	21%	20%	23%
National Museum	Single institute	58%	50%	35%	26%	21%	22%	23%	29%	24%	23%	19%	14%	13%	12%
	National col.	21%	31%	43%	48%	58%	48%	43%	39%	29%	28%	26%	25%	27%	30%
	International col.	21%	19%	22%	26%	21%	30%	33%	32%	47%	49%	56%	61%	60%	58%
Silesian University in Opava	Single institute	50%	52%	45%	43%	41%	41%	45%	48%	52%	46%	43%	41%	35%	41%
	National col.	0%	0%	5%	11%	14%	14%	13%	8%	4%	2%	1%	2%	10%	9%
	International col.	50%	48%	50%	47%	45%	44%	42%	44%	44%	52%	56%	57%	56%	50%
Jan Evangelista Purkyně University in Ústí nad Labem	Single institute	33%	40%	31%	13%	15%	14%	21%	30%	28%	27%	21%	20%	20%	17%
	National col.	44%	40%	44%	48%	48%	50%	44%	43%	42%	37%	40%	44%	52%	58%
	International col.	22%	20%	25%	39%	36%	36%	35%	28%	31%	36%	39%	36%	29%	25%
Institute of Thermomechanics ASCR	Single institute	45%	45%	35%	29%	33%	30%	35%	34%	30%	29%	28%	29%	27%	26%
	National col.	28%	26%	25%	32%	27%	25%	27%	25%	32%	34%	38%	39%	37%	42%
	International col.	28%	29%	40%	39%	40%	45%	39%	41%	38%	37%	34%	33%	36%	31%
Masaryk Memorial Cancer Institute	Single institute	6%	16%	28%	20%	27%	17%	12%	10%	8%	8%	7%	7%	7%	7%
	National col.	25%	32%	24%	32%	43%	50%	54%	56%	57%	53%	50%	44%	40%	38%
	International col.	69%	52%	48%	38%	30%	33%	35%	34%	35%	39%	43%	49%	53%	55%
University Hospital in Plzeň	Single institute	9%	19%	13%	22%	20%	20%	19%	13%	15%	14%	16%	19%	20%	16%
	National col.	36%	38%	38%	28%	33%	31%	32%	48%	48%	49%	53%	52%	54%	58%
	International col.	55%	44%	50%	50%	47%	49%	49%	39%	37%	37%	31%	29%	27%	26%
Institute of Scientific Instruments ASCR	Single institute	51%	50%	30%	22%	22%	23%	25%	27%	30%	28%	28%	28%	25%	29%
	National col.	12%	15%	21%	22%	18%	18%	22%	31%	30%	28%	33%	27%	35%	36%
	International col.	37%	35%	49%	55%	59%	60%	53%	42%	39%	44%	39%	45%	40%	36%
Na Homolce Hospital	Single institute	67%	44%	31%	23%	20%	17%	17%	13%	9%	10%	11%	11%	13%	12%
	National col.	33%	56%	56%	54%	53%	54%	56%	65%	67%	66%	64%	54%	52%	49%
	International col.	0%	0%	13%	23%	28%	29%	28%	23%	24%	24%	25%	35%	35%	39%
Institute of Rock Structure and Mechanics ASCR	Single institute	45%	37%	32%	29%	21%	20%	16%	14%	21%	21%	30%	29%	33%	31%
	National col.	35%	44%	55%	59%	57%	54%	49%	46%	46%	45%	43%	46%	43%	49%

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Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
	International col.	20%	19%	13%	12%	21%	26%	35%	39%	33%	34%	26%	25%	24%	21%
University of Ostrava	Single institute	92%	87%	75%	71%	50%	47%	41%	33%	36%	33%	33%	31%	29%	31%
	National col.	8%	13%	25%	29%	42%	47%	34%	40%	41%	38%	39%	41%	38%	34%
	International col.	0%	0%	0%	0%	8%	7%	24%	28%	23%	29%	28%	28%	33%	35%
CERGE-Economics Institute ASCR	Single institute	76%	59%	48%	37%	22%	22%	18%	19%	21%	18%	18%	23%	23%	25%
	National col.	10%	19%	24%	33%	42%	39%	44%	39%	36%	36%	29%	25%	20%	15%
	International col.	14%	22%	28%	30%	36%	39%	38%	42%	42%	46%	54%	52%	57%	60%
St. Anne's University Hospital Brno	Single institute	40%	47%	42%	39%	39%	37%	36%	27%	24%	19%	15%	16%	12%	10%
	National col.	40%	35%	33%	39%	42%	44%	51%	56%	52%	59%	57%	56%	59%	59%
	International col.	20%	18%	25%	21%	18%	20%	13%	16%	24%	22%	28%	29%	29%	31%
Institute of Psychology ASCR	Single institute	65%	61%	60%	60%	59%	66%	63%	56%	56%	50%	51%	54%	52%	48%
	National col.	31%	31%	31%	33%	30%	29%	30%	32%	30%	37%	37%	37%	39%	42%
	International col.	4%	8%	9%	6%	11%	5%	8%	12%	14%	13%	12%	9%	9%	10%
Prague Psychiatric Centre	Single institute	56%	54%	48%	39%	44%	42%	37%	33%	26%	14%	14%	10%	10%	8%
	National col.	31%	33%	38%	42%	39%	35%	34%	33%	39%	58%	59%	67%	63%	64%
	International col.	14%	13%	15%	18%	17%	23%	29%	33%	34%	28%	27%	22%	28%	28%
Institute of Sociology ASCR	Single institute	86%	82%	83%	90%	91%	95%	90%	88%	87%	84%	82%	84%	80%	81%
	National col.	7%	6%	5%	3%	0%	0%	2%	5%	6%	11%	12%	11%	14%	12%
	International col.	7%	12%	12%	8%	9%	5%	7%	7%	7%	5%	6%	5%	7%	8%
Czech National Bank	Single institute	100%	94%	88%	74%	64%	54%	45%	46%	42%	45%	48%	48%	47%	41%
	National col.	0%	3%	3%	18%	27%	32%	41%	37%	39%	40%	40%	45%	45%	50%
	International col.	0%	3%	9%	9%	9%	15%	14%	18%	19%	15%	12%	7%	9%	9%
University Hospital Kralovske Vinohrady	Single institute	0%	10%	13%	17%	16%	21%	22%	21%	24%	16%	12%	8%	4%	4%
	National col.	43%	40%	40%	44%	63%	61%	61%	57%	49%	54%	56%	59%	65%	61%
	International col.	57%	50%	47%	39%	21%	18%	17%	21%	27%	30%	32%	33%	31%	35%
Zentiva	Single institute	53%	47%	51%	47%	38%	41%	37%	38%	35%	31%	29%	15%	13%	9%

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Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
	National col.	34%	44%	44%	47%	57%	54%	53%	50%	48%	53%	54%	54%	54%	54%
	International col.	13%	9%	5%	6%	4%	5%	10%	13%	17%	17%	17%	31%	34%	36%
Institute of Philosophy ASCR	Single institute	96%	92%	90%	92%	95%	96%	100%	97%	92%	77%	67%	71%	74%	74%
	National col.	4%	8%	10%	8%	5%	4%	0%	0%	4%	21%	31%	27%	24%	25%
	International col.	0%	0%	0%	0%	0%	0%	0%	3%	4%	3%	3%	2%	2%	2%
Research Institute of Organic Syntheses	Single institute	24%	14%	16%	15%	8%	9%	3%	0%	0%	0%	0%	0%	0%	0%
	National col.	29%	31%	23%	21%	37%	36%	50%	55%	43%	38%	42%	44%	58%	67%
	International col.	47%	55%	61%	64%	55%	55%	47%	45%	57%	62%	58%	56%	42%	33%
Institute for Postgraduate Medical Education	Single institute	26%	26%	22%	21%	20%	15%	13%	11%	8%	5%	2%	0%	4%	4%
	National col.	48%	50%	42%	47%	47%	48%	69%	67%	69%	68%	65%	67%	68%	72%
	International col.	26%	24%	36%	32%	33%	36%	18%	22%	24%	27%	33%	33%	28%	23%
Nuclear Research Institute Rez	Single institute	67%	57%	59%	50%	39%	35%	23%	16%	24%	24%	15%	18%	18%	21%
	National col.	11%	29%	24%	20%	26%	13%	23%	34%	30%	24%	15%	12%	14%	17%
	International col.	22%	14%	18%	30%	35%	52%	53%	50%	45%	52%	70%	70%	69%	62%
Faculty Hospital Na Bulovce	Single institute	16%	21%	23%	33%	34%	38%	36%	14%	11%	2%	0%	0%	0%	5%
	National col.	52%	53%	52%	50%	34%	23%	24%	41%	54%	67%	74%	69%	68%	66%
	International col.	32%	26%	26%	17%	31%	38%	40%	45%	34%	31%	26%	31%	32%	29%
University Hospital Ostrava	Single institute	57%	58%	53%	39%	32%	19%	13%	11%	10%	12%	15%	15%	10%	5%
	National col.	43%	42%	47%	56%	50%	50%	53%	55%	62%	62%	62%	63%	69%	73%
	International col.	0%	0%	0%	6%	18%	31%	33%	34%	29%	26%	23%	22%	21%	22%
University of Hradec Kralove	Single institute	88%	75%	63%	45%	32%	29%	23%	23%	24%	25%	29%	33%	32%	26%
	National col.	13%	8%	16%	25%	32%	36%	37%	41%	41%	46%	44%	43%	45%	52%
	International col.	0%	17%	21%	30%	36%	36%	40%	36%	35%	29%	27%	24%	23%	22%
State Veterinary Administration of the Czech Republic	Single institute	26%	19%	15%	9%	9%	10%	6%	0%	2%	3%	5%	5%	6%	4%
	National col.	74%	70%	76%	80%	71%	77%	69%	71%	69%	64%	67%	67%	69%	73%
	International col.	0%	11%	9%	11%	20%	13%	25%	29%	29%	32%	28%	27%	24%	22%
Teva Czech Industries	Single institute	2%	4%	4%	7%	6%	3%	4%	3%	2%	2%	2%	0%	0%	0%



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Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
	National col.	56%	61%	76%	77%	82%	91%	86%	84%	78%	72%	80%	84%	83%	87%
	International col.	42%	36%	20%	16%	12%	6%	11%	14%	20%	26%	18%	16%	17%	13%
Institute of Rheumatology	Single institute	27%	33%	28%	23%	19%	13%	15%	12%	11%	9%	7%	6%	5%	5%
	National col.	36%	22%	39%	32%	23%	23%	20%	23%	22%	28%	24%	34%	41%	40%
	International col.	36%	44%	33%	45%	58%	65%	66%	65%	67%	63%	69%	60%	54%	55%
Central Military Hospital Prague	Single institute	0%	18%	25%	27%	24%	22%	20%	20%	26%	24%	20%	16%	11%	11%
	National col.	100%	82%	75%	73%	71%	74%	73%	66%	58%	51%	55%	63%	71%	76%
	International col.	0%	0%	0%	0%	5%	4%	7%	14%	16%	24%	24%	21%	18%	14%
Research Institute for Cattle Breeding	Single institute	93%	93%	86%	69%	56%	32%	19%	14%	4%	4%	5%	12%	4%	6%
	National col.	7%	7%	14%	27%	38%	61%	69%	71%	80%	72%	67%	59%	64%	69%
	International col.	0%	0%	0%	4%	6%	8%	11%	14%	16%	24%	29%	29%	32%	25%
VUC Praha	Single institute	100%	100%	100%	100%	100%	98%	97%	96%	97%	100%	100%	100%	100%	91%
	National col.	0%	0%	0%	0%	0%	2%	3%	4%	3%	0%	0%	0%	0%	9%
Thomayer University Hospital	Single institute	20%	17%	22%	23%	14%	18%	14%	10%	13%	9%	6%	6%	3%	2%
	National col.	60%	67%	67%	62%	71%	65%	68%	74%	61%	64%	68%	68%	73%	76%
	International col.	20%	17%	11%	15%	14%	18%	18%	16%	26%	27%	26%	26%	23%	23%
Czech Hydrometeorological Institute	Single institute	0%	0%	0%	13%	25%	33%	31%	19%	15%	9%	10%	14%	9%	10%
	National col.	67%	75%	50%	38%	33%	20%	19%	28%	29%	29%	32%	26%	32%	36%
	International col.	33%	25%	50%	50%	42%	47%	50%	53%	56%	62%	59%	60%	58%	54%
Institute of Hydrodynamics ASCR	Single institute	35%	33%	30%	27%	27%	30%	18%	19%	23%	20%	26%	23%	31%	38%
	National col.	25%	22%	22%	23%	14%	20%	23%	24%	27%	24%	26%	23%	26%	26%
	International col.	40%	44%	48%	50%	59%	50%	59%	57%	50%	56%	48%	55%	44%	36%
Military Geography and Hydrometeorology Office Dobruska	Single institute	57%	45%	45%	50%	38%	44%	34%	24%	21%	17%	17%	10%	9%	4%
	National col.	43%	50%	50%	32%	33%	24%	31%	40%	41%	43%	47%	62%	74%	82%
	International col.	0%	5%	5%	18%	29%	32%	34%	36%	38%	40%	37%	28%	17%	14%
Czech Metrology Institute	Single institute	33%	40%	29%	44%	38%	29%	32%	21%	22%	18%	17%	18%	23%	29%

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Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
	National col.	33%	20%	14%	11%	15%	18%	32%	36%	41%	45%	42%	52%	43%	40%
	International col.	33%	40%	57%	44%	46%	53%	36%	42%	38%	38%	42%	30%	34%	31%
Institute of Geonics ASCR	Single institute	71%	50%	50%	44%	50%	50%	53%	45%	30%	37%	45%	36%	45%	39%
	National col.	14%	14%	19%	22%	22%	44%	41%	45%	48%	33%	29%	31%	34%	40%
	International col.	14%	36%	31%	33%	28%	6%	6%	9%	22%	30%	26%	33%	21%	21%
Institute of Theoretical and Applied Mechanics ASCR	Single institute	86%	82%	85%	67%	62%	61%	63%	57%	59%	56%	50%	59%	55%	46%
	National col.	5%	4%	0%	4%	7%	11%	13%	11%	15%	15%	17%	18%	20%	25%
	International col.	9%	14%	15%	29%	31%	29%	25%	32%	26%	30%	33%	23%	25%	29%
Moravian Museum	Single institute	47%	37%	18%	32%	33%	35%	40%	24%	26%	33%	29%	20%	9%	9%
	National col.	0%	5%	12%	11%	11%	6%	0%	12%	11%	19%	25%	20%	30%	31%
	International col.	53%	58%	71%	58%	56%	59%	60%	65%	63%	48%	46%	60%	61%	60%
National Radiation Protection Institute	Single institute	100%	80%	75%	50%	44%	32%	22%	31%	35%	37%	38%	29%	22%	26%
	National col.	0%	0%	0%	29%	31%	42%	56%	50%	40%	32%	24%	19%	31%	34%
	International col.	0%	20%	25%	21%	25%	26%	22%	19%	25%	32%	38%	52%	47%	40%

## Appendix H - Temporal evolution of CPP/FCSm for the main Czech institutions by collaboration – block approach

Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Academy of Sciences (global)	Single institute	0.38	0.39	0.38	0.36	0.43	0.46	0.52	0.49	0.49	0.56	0.57	0.58	0.63	0.66
	National col.	0.26	0.28	0.31	0.32	0.35	0.40	0.47	0.49	0.49	0.52	0.55	0.56	0.58	0.61
	International col.	0.83	0.85	0.88	0.84	0.78	0.81	0.86	0.87	0.85	0.89	0.98	1.06	1.05	0.99
Charles University in Prague	Single institute	0.27	0.29	0.27	0.25	0.26	0.27	0.33	0.38	0.41	0.43	0.43	0.39	0.45	0.51
	National col.	0.24	0.24	0.23	0.25	0.28	0.32	0.35	0.38	0.41	0.45	0.46	0.50	0.53	0.56
	International col.	1.12	1.12	1.20	1.02	0.98	0.94	0.92	0.94	0.93	0.92	0.99	1.10	1.14	1.21
Institute of Physics ASCR	Single institute	0.45	0.38	0.40	0.35	0.36	0.41	0.52	0.55	0.50	0.48	0.45	0.55	0.51	0.57
	National col.	0.52	0.45	0.40	0.34	0.35	0.32	0.36	0.45	0.47	0.38	0.43	0.35	0.39	0.35
	International col.	1.16	1.23	1.37	1.27	1.08	1.06	1.03	1.05	0.96	0.89	1.15	1.37	1.29	1.18
Masaryk University	Single institute	0.36	0.31	0.30	0.25	0.32	0.30	0.37	0.36	0.47	0.39	0.47	0.42	0.46	0.45
	National col.	0.33	0.32	0.34	0.42	0.47	0.40	0.41	0.43	0.44	0.47	0.49	0.53	0.58	0.61
	International col.	0.72	0.63	0.54	0.56	0.85	0.97	0.99	1.12	1.22	0.95	0.84	0.97	0.99	0.97
Institute of Chemical Technology Prague	Single institute	0.22	0.22	0.21	0.19	0.22	0.23	0.22	0.21	0.28	0.39	0.42	0.44	0.36	0.33
	National col.	0.17	0.21	0.27	0.31	0.31	0.30	0.42	0.46	0.48	0.51	0.58	0.46	0.41	0.45
	International col.	0.51	0.52	0.51	0.63	0.81	0.90	0.98	0.65	0.62	0.60	0.57	0.67	0.69	0.69
Czech Technical University in Prague	Single institute	0.28	0.24	0.16	0.17	0.23	0.15	0.20	0.27	0.37	0.39	0.35	0.22	0.22	0.32
	National col.	0.17	0.22	0.26	0.36	0.32	0.32	0.38	0.43	0.45	0.40	0.42	0.37	0.42	0.36
	International col.	0.47	0.53	0.59	0.59	0.43	0.43	0.47	0.53	0.51	0.50	0.70	0.91	1.21	1.44
Palacky University Olomouc	Single institute	0.26	0.26	0.23	0.29	0.29	0.24	0.31	0.45	0.65	0.73	0.47	0.53	0.49	0.48
	National col.	0.45	0.35	0.27	0.16	0.24	0.31	0.34	0.39	0.44	0.44	0.50	0.49	0.56	0.67
	International col.	0.75	0.97	0.98	1.05	1.36	0.78	0.97	0.77	0.76	0.80	1.03	1.05	1.04	1.14
	Single institute	0.63	0.72	0.72	0.46	0.53	0.69	0.91	0.63	0.53	0.69	0.64	0.56	0.62	0.63

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Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
J. Heyrovsky Institute of Physical Chemistry ASCR	Single institute	0.63	0.72	0.72	0.46	0.53	0.69	0.91	0.63	0.53	0.69	0.64	0.56	0.62	0.63
	National col.	0.72	0.72	0.91	0.83	0.70	0.63	0.92	1.05	0.86	1.01	0.82	0.74	0.48	0.55
	International col.	1.60	1.38	1.08	1.17	1.08	1.19	1.39	1.27	1.21	1.08	1.01	1.01	0.91	0.84
Biology Centre ASCR	Single institute	0.40	0.37	0.44	0.44	0.59	0.47	0.51	0.39	0.36	0.45	0.46	0.56	0.65	0.91
	National col.	0.44	0.46	0.32	0.38	0.46	0.59	0.48	0.47	0.66	0.72	0.69	0.57	0.56	0.59
	International col.	0.60	0.62	0.81	0.85	0.85	0.77	0.76	0.71	0.83	0.88	0.92	0.90	0.82	0.93
University of South Bohemia in Ceske Budejovice	Single institute	0.37	0.37	0.28	0.34	0.32	0.34	0.31	0.51	0.59	0.73	0.57	0.59	0.51	0.44
	National col.	0.43	0.40	0.35	0.56	0.64	0.69	0.56	0.47	0.66	0.63	0.68	0.56	0.60	0.66
	International col.	0.22	0.41	0.64	0.79	0.73	0.71	0.88	0.85	0.82	0.79	0.87	0.98	0.93	0.89
Institute of Organic Chemistry and Biochemistry ASCR	Single institute	0.33	0.28	0.23	0.19	0.30	0.42	0.42	0.39	0.35	0.54	0.58	0.66	0.70	0.87
	National col.	0.21	0.29	0.33	0.40	0.38	0.44	0.71	0.83	0.66	0.78	0.86	0.82	0.85	1.04
	International col.	0.47	0.50	0.54	0.55	0.43	0.58	0.67	0.82	1.07	0.97	1.02	1.11	1.23	1.22
Institute of Macromolecular Chemistry ASCR	Single institute	0.34	0.40	0.44	0.40	0.68	0.64	0.78	0.77	0.52	0.68	0.77	1.03	1.03	0.88
	National col.	0.07	0.16	0.31	0.38	0.30	0.35	0.61	0.59	0.49	0.49	0.51	0.56	0.58	0.55
	International col.	0.95	0.98	1.05	1.09	1.08	1.12	1.10	1.11	0.94	1.02	0.99	0.90	0.94	1.27
Institute of Microbiology ASCR	Single institute	0.16	0.19	0.19	0.18	0.35	0.32	0.37	0.39	0.44	0.46	0.41	0.47	0.71	0.85
	National col.	0.14	0.20	0.23	0.21	0.23	0.23	0.39	0.47	0.37	0.42	0.47	0.49	0.53	0.61
	International col.	0.67	0.66	0.48	0.54	0.54	0.67	0.72	0.71	0.79	0.66	0.65	0.64	0.75	0.87
University of Pardubice	Single institute	0.12	0.22	0.27	0.26	0.23	0.34	0.34	0.26	0.34	0.44	0.45	0.45	0.47	0.53
	National col.	0.28	0.25	0.27	0.18	0.25	0.39	0.46	0.48	0.43	0.59	0.62	0.54	0.52	0.50
	International col.	0.87	0.96	1.15	0.67	0.57	0.46	0.44	0.70	0.78	0.82	0.87	0.86	0.89	0.96
Institute of Physiology ASCR	Single institute	0.34	0.34	0.38	0.33	0.36	0.40	0.38	0.41	0.45	0.63	0.61	0.68	0.56	0.45
	National col.	0.15	0.19	0.20	0.28	0.26	0.25	0.26	0.32	0.33	0.37	0.44	0.41	0.39	0.45
	International col.	0.63	0.76	0.89	0.66	0.63	0.71	0.73	0.56	0.61	0.58	0.64	0.97	0.96	0.84
Nuclear Physics Institute ASCR	Single institute	0.15	0.20	0.20	0.21	0.25	0.55	0.99	0.81	0.69	0.65	0.61	0.68	0.43	0.38
	National col.	0.15	0.20	0.27	0.40	0.35	0.25	0.33	0.35	0.47	0.34	0.29	0.38	0.37	0.41
	International col.	0.51	0.54	0.60	0.68	0.66	0.60	0.70	0.84	0.96	1.21	1.53	1.60	1.71	1.24

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Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Brno University of Technology	Single institute	0.10	0.12	0.15	0.13	0.18	0.25	0.17	0.14	0.22	0.30	0.32	0.32	0.31	0.37
	National col.	0.04	0.11	0.14	0.23	0.31	0.44	0.43	0.36	0.24	0.23	0.29	0.42	0.45	0.52
	International col.	0.68	0.54	0.23	0.31	0.46	0.56	0.56	0.71	0.64	0.37	0.44	0.54	0.56	0.84
University of Veterinary and Pharmaceutical Sciences Brno	Single institute	0.08	0.12	0.20	0.32	0.40	0.47	0.37	0.42	0.40	0.29	0.25	0.24	0.39	0.38
	National col.	0.00	0.09	0.23	0.35	0.47	0.56	0.35	0.42	0.53	0.55	0.45	0.46	0.58	0.55
	International col.	0.08	0.13	0.15	0.19	0.58	0.54	0.55	0.71	0.63	0.53	0.51	0.54	0.61	0.69
Mendel University in Brno	Single institute	0.13	0.13	0.18	0.12	0.19	0.32	0.38	0.26	0.24	0.25	0.36	0.54	0.58	0.97
	National col.	0.00	0.00	0.10	0.37	0.27	0.28	0.46	0.38	0.27	0.29	0.48	0.61	0.61	0.47
	International col.	0.89	0.76	0.88	0.72	1.11	0.77	0.58	0.69	0.76	1.06	1.02	0.92	0.77	0.95
Czech University of Life Sciences Prague	Single institute	0.18	0.33	0.32	0.23	0.22	0.25	0.40	0.31	0.28	0.34	0.26	0.28	0.43	0.65
	National col.	0.61	0.36	0.47	0.22	0.23	0.31	0.25	0.31	0.35	0.55	0.49	0.50	0.61	0.69
	International col.	1.07	0.80	0.49	0.80	0.81	0.92	0.33	0.45	0.63	0.69	0.71	0.53	0.66	0.93
Institute of Chemical Process Fundamentals ASCR	Single institute	0.47	0.57	0.40	0.42	0.47	0.24	0.21	0.22	0.29	0.28	0.35	0.41	0.41	0.35
	National col.	0.24	0.25	0.32	0.48	0.59	0.49	0.46	0.48	0.56	0.73	0.54	0.50	0.60	0.54
	International col.	0.43	0.44	0.57	0.67	0.70	0.55	0.68	0.51	0.55	0.70	0.89	1.01	0.76	0.69
Institute of Molecular Genetics ASCR	Single institute	0.56	0.52	0.34	0.34	0.24	0.21	0.27	0.20	0.29	0.38	0.48	0.45	0.39	0.49
	National col.	0.07	0.13	0.20	0.29	0.34	0.45	0.33	0.39	0.44	0.34	0.30	0.33	0.39	0.55
	International col.	0.84	0.86	0.82	0.61	0.70	0.85	1.28	1.15	1.00	1.21	1.13	1.33	1.27	0.94
Institute of Biophysics ASCR	Single institute	0.56	0.58	0.57	0.63	0.47	0.35	0.70	1.14	1.29	1.03	0.51	0.67	0.86	0.77
	National col.	0.49	0.52	0.57	0.43	0.55	0.54	0.49	0.47	0.56	0.61	0.70	0.94	0.89	0.91
	International col.	0.60	0.62	0.81	1.11	1.18	1.02	1.16	1.04	1.02	1.04	0.99	0.93	0.91	0.93
VSB-Technical University of Ostrava	Single institute	0.08	0.06	0.11	0.04	0.09	0.14	0.26	0.37	0.38	0.33	0.54	0.62	0.55	0.30
	National col.	0.17	0.13	0.11	0.22	0.19	0.44	0.33	0.30	0.37	0.43	0.64	0.65	0.47	0.53
	International col.	0.00	0.27	0.47	0.50	0.92	0.89	0.66	1.11	0.76	0.59	0.54	0.55	0.58	0.61
Institute of Mathematics ASCR	Single institute	0.64	0.79	0.68	0.95	1.22	0.79	0.77	0.52	0.33	0.82	1.06	1.61	1.21	0.82
	National col.	0.00	0.00	0.00	0.06	0.32	0.32	0.51	1.11	1.14	0.79	0.97	0.93	0.64	0.63

Bibliometric Analysis of the Czech Republic Research Output in an International Context – Institutional Analysis / Annex 8 to the Second Interim Report

Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
	International col.	0.45	0.82	0.80	0.93	0.63	0.69	0.66	0.74	1.37	1.13	1.20	1.01	0.89	0.90
Astronomical Institute ASCR	Single institute	0.15	0.21	0.32	0.35	0.22	0.28	0.31	0.25	0.25	0.21	0.11	0.20	0.28	0.22
	National col.	0.26	0.29	0.27	0.16	0.52	0.56	0.74	0.68	0.49	0.26	0.25	0.12	0.11	0.14
	International col.	0.30	0.34	0.37	0.40	0.50	0.46	0.52	0.54	0.45	0.46	0.54	0.48	0.54	0.57
Institute of Inorganic Chemistry ASCR	Single institute	0.17	0.13	0.24	0.30	0.34	0.31	0.41	0.44	0.38	0.53	0.66	0.25	0.40	0.39
	National col.	0.00	0.07	0.19	0.18	0.23	0.24	0.38	0.37	0.32	0.62	0.88	0.82	0.60	0.56
	International col.	0.31	0.43	0.47	0.60	0.43	0.40	0.58	0.61	0.51	0.56	0.66	0.55	0.60	0.54
National Institute of Public Health and regional hygienic stations	Single institute	0.52	0.53	0.64	0.14	0.15	0.32	0.35	0.19	0.47	0.39	0.55	0.20	0.23	0.19
	National col.	0.40	0.43	0.32	0.38	0.39	0.63	0.55	0.56	0.46	0.50	0.48	0.41	0.44	0.45
	International col.	0.75	0.76	0.79	0.67	0.75	0.84	0.92	0.73	0.78	0.82	1.16	1.36	1.46	1.58
Institute of Botany ASCR	Single institute	0.33	0.29	0.25	0.41	0.54	0.57	0.51	0.45	0.42	0.46	0.44	0.54	0.47	0.55
	National col.	0.21	0.19	0.39	0.19	0.49	0.57	0.78	0.67	0.68	0.71	0.74	0.66	0.82	0.81
	International col.	0.16	0.26	0.37	0.59	0.45	0.48	0.73	1.11	1.49	0.74	0.89	1.03	1.24	1.35
Institute of Experimental Medicine ASCR	Single institute	0.38	0.36	0.34	0.39	0.50	0.45	0.49	0.39	0.34	0.51	0.39	0.33	0.74	0.92
	National col.	0.12	0.12	0.11	0.24	0.36	0.47	0.45	0.53	0.49	0.56	0.61	0.72	0.79	0.72
	International col.	1.27	1.00	0.95	0.80	0.60	0.60	0.63	0.53	0.65	0.92	1.13	1.28	1.10	1.14
Institute of Physics of Materials ASCR	Single institute	0.44	0.44	0.26	0.36	0.36	0.51	0.39	0.30	0.27	0.47	0.81	0.70	0.67	1.00
	National col.	0.10	0.14	0.18	0.42	0.30	0.20	0.31	0.39	0.51	0.53	0.53	0.53	0.52	0.40
	International col.	0.82	1.03	1.27	1.12	0.59	0.51	0.77	0.97	1.09	0.91	0.67	0.64	0.54	0.73
Institute for Clinical and Experimental Medicine	Single institute	0.26	0.23	0.18	0.16	0.21	0.44	0.65	0.34	0.40	0.59	0.53	0.61	0.69	0.52
	National col.	0.04	0.09	0.12	0.18	0.19	0.27	0.27	0.45	0.41	0.53	0.61	0.62	0.59	0.65
	International col.	0.38	0.38	0.58	0.94	1.64	0.87	1.08	1.08	1.57	2.55	3.02	1.34	1.72	2.58
University of West Bohemia in Plzen	Single institute	0.31	0.29	0.39	0.57	0.73	1.42	2.00	1.96	0.66	0.81	0.50	0.39	0.47	0.91
	National col.	0.00	0.00	0.07	0.42	0.60	0.57	0.25	0.46	0.67	0.27	0.29	0.19	0.21	0.13
	International col.	0.00	0.18	0.59	1.16	1.54	2.08	1.96	1.37	0.99	0.69	0.64	0.77	0.65	0.78
Institute of Experimental Botany ASCR	Single institute	0.43	0.45	0.40	0.32	0.24	0.22	0.33	0.28	0.39	0.56	0.61	0.82	1.21	0.56
	National col.	0.82	0.51	0.40	0.23	0.28	0.37	0.47	0.49	0.50	0.60	0.67	0.48	0.47	0.56

Bibliometric Analysis of the Czech Republic Research Output in an International Context – Institutional Analysis / Annex 8 to the Second Interim Report

Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
	International col.	0.85	0.94	0.67	0.64	0.86	1.05	0.79	0.66	0.81	1.31	1.57	1.54	1.56	1.48
Veterinary Research Institute	Single institute	0.54	0.72	0.78	0.41	0.30	0.62	0.72	0.61	0.73	0.52	0.75	0.80	0.59	0.77
	National col.	0.22	0.21	0.29	0.30	0.41	0.50	0.47	0.45	0.54	0.71	0.99	1.03	0.68	0.54
	International col.	0.57	0.73	0.68	0.93	1.01	1.03	0.70	0.93	1.30	1.06	0.76	0.65	0.69	0.78
Institute of Information Theory and Automation ASCR	Single institute	0.65	0.91	0.61	0.34	0.50	0.95	0.92	0.94	0.84	1.60	2.36	0.44	0.97	0.96
	National col.	0.00	0.16	0.16	0.20	0.15	0.42	0.82	0.38	0.52	0.53	0.40	0.42	0.58	0.77
	International col.	0.48	0.77	0.90	0.68	0.94	1.01	0.98	0.68	0.83	1.45	1.86	1.40	1.14	1.22
Institute of Animal Physiology and Genetics ASCR	Single institute	0.24	0.23	0.24	0.27	0.29	0.47	0.55	0.76	0.83	1.01	1.06	0.55	0.55	0.55
	National col.	0.20	0.32	0.38	0.33	0.23	0.32	0.26	0.33	0.41	0.32	0.31	0.38	0.50	0.60
	International col.	0.71	0.72	0.85	0.75	0.55	0.36	0.43	0.49	0.58	0.73	0.87	0.71	0.70	0.69
Crop Research Institute	Single institute	0.18	0.27	0.26	0.27	0.27	0.21	0.21	0.25	0.21	0.13	0.23	0.24	0.55	0.48
	National col.	0.28	0.31	0.19	0.23	0.35	0.30	0.32	0.22	0.31	0.37	0.38	0.49	0.51	0.60
	International col.	0.68	0.74	0.86	0.65	0.97	0.59	0.75	0.47	0.67	0.43	0.72	1.00	0.76	0.85
General University Hospital Prague	Single institute	0.00	0.41	0.20	0.20	0.25	0.28	0.08	0.07	0.28	0.30	0.43	0.30	0.26	0.79
	National col.	0.17	0.22	0.19	0.26	0.27	0.21	0.42	0.55	0.48	0.57	0.40	0.46	0.42	0.47
	International col.	0.47	0.68	1.35	1.41	1.89	0.84	1.31	1.79	0.86	0.63	0.91	1.17	1.71	2.42
University Hospital Brno	Single institute	0.06	0.05	0.05	0.12	0.16	0.21	0.15	0.13	0.23	0.24	0.47	0.82	0.58	0.55
	National col.	0.06	0.26	0.27	0.14	0.16	0.11	0.15	0.24	0.31	0.44	0.42	0.45	0.44	0.48
	International col.	0.00	0.32	0.22	0.35	0.80	1.45	2.12	2.41	1.49	1.39	1.09	1.18	1.56	2.21
University Hospital Motol	Single institute	0.00	0.06	0.16	0.21	0.23	0.35	0.68	0.53	0.63	0.59	0.55	0.59	0.25	0.35
	National col.	0.14	0.19	0.20	0.30	0.35	0.74	0.37	0.32	0.39	0.38	0.41	0.43	0.46	0.57
	International col.	1.27	0.91	0.85	0.91	0.88	0.95	1.44	1.23	1.51	0.83	0.85	0.83	1.15	1.59
Institute of Systems Biology and Ecology ASCR	Single institute	0.22	0.28	0.39	0.33	0.42	0.68	0.37	0.36	0.42	0.88	0.58	0.10	0.00	0.09
	National col.	0.91	0.65	0.80	0.41	0.26	0.56	0.80	0.43	0.28	0.23	0.31	0.40	0.52	0.73
	International col.	0.57	0.79	0.78	0.76	0.50	0.79	1.09	1.19	0.79	0.57	0.55	0.80	1.12	0.88
University of Defense	Single institute	0.05	0.05	0.07	0.06	0.07	0.04	0.07	0.28	0.45	0.87	0.78	0.65	0.62	0.34

Bibliometric Analysis of the Czech Republic Research Output in an International Context – Institutional Analysis / Annex 8 to the Second Interim Report

Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
	National col.	0.14	0.07	0.32	0.32	0.35	0.20	0.17	0.27	0.19	0.18	0.21	0.28	0.34	0.39
	International col.	0.23	0.30	0.33	0.49	1.17	1.83	1.80	1.77	0.94	1.06	1.08	1.09	0.99	1.22
Institute of Computer Science ASCR	Single institute	0.72	0.82	0.40	0.34	0.52	0.81	0.46	0.43	0.79	0.83	0.59	0.78	0.80	0.60
	National col.	0.09	0.05	0.21	0.15	0.21	0.18	0.36	0.53	0.71	0.63	0.54	0.84	0.49	0.57
	International col.	1.22	0.88	0.94	2.14	2.19	1.83	1.47	1.12	1.15	1.11	1.50	1.74	1.77	1.36
Institute of Animal Science	Single institute	0.39	0.31	0.35	0.13	0.17	0.24	0.58	0.41	0.43	0.38	0.55	0.75	0.78	0.85
	National col.	0.21	0.58	0.48	0.19	0.16	0.34	0.28	0.24	0.30	0.27	0.43	0.51	0.59	0.64
	International col.	0.25	0.28	0.33	0.48	0.72	0.93	0.96	1.02	1.60	0.99	0.54	0.57	0.69	0.90
Institute of Hematology and Blood Transfusion	Single institute	0.19	0.19	0.19	0.11	0.13	0.15	0.23	0.28	0.53	0.45	0.53	0.48	0.32	0.28
	National col.	0.03	0.09	0.14	0.25	0.31	0.26	0.32	0.38	0.44	0.50	0.38	0.41	0.48	0.59
	International col.	1.12	1.09	0.93	0.71	0.44	0.53	0.58	0.76	0.68	0.53	0.60	1.13	1.22	1.23
Institute of Plasma Physics ASCR	Single institute	0.25	0.23	0.21	0.47	0.35	0.24	0.14	0.10	0.45	0.29	0.43	0.35	0.34	0.37
	National col.	0.00	0.00	0.00	0.00	0.21	0.11	0.36	0.35	0.23	0.13	0.18	0.29	0.43	0.24
	International col.	0.46	0.35	0.14	0.26	0.46	0.56	0.45	0.28	0.36	0.47	0.68	0.48	0.53	0.75
University of Economics Prague	Single institute	0.16	0.12	0.18	0.26	0.23	0.35	0.24	0.24	0.26	0.21	0.27	0.34	0.51	0.34
	National col.	0.00	0.00	0.57	0.42	0.56	0.39	0.77	0.27	0.23	0.18	0.21	0.35	0.39	0.43
	International col.	2.57	1.03	0.72	0.47	0.35	1.03	1.02	0.00	0.12	0.42	1.04	1.54	0.25	0.29
Institute of Analytical Chemistry ASCR	Single institute	1.01	0.89	0.82	1.00	1.13	0.84	1.02	1.07	0.61	0.84	1.25	0.89	0.98	0.80
	National col.	0.66	0.81	0.76	0.37	0.20	0.31	0.50	0.53	0.53	0.57	0.64	0.72	0.68	0.75
	International col.	1.28	1.34	2.04	1.50	1.06	0.74	1.58	2.09	1.19	1.12	1.08	0.93	0.95	1.17
Institute of Vertebrate Biology ASCR	Single institute	0.00	0.00	0.00	0.67	1.64	2.31	2.45	0.47	0.76	0.77	1.12	0.89	1.03	0.43
	National col.	0.00	0.00	0.00	0.00	0.13	0.13	0.36	0.53	0.65	0.51	0.44	0.47	0.63	0.70
	International col.	0.00	0.00	0.00	0.18	0.17	0.86	0.93	1.37	0.89	0.96	0.98	0.92	1.09	0.77
Czech Geological Survey	Single institute	0.39	0.53	0.26	0.34	0.14	0.27	0.27	0.56	0.93	0.90	0.96	0.28	0.24	0.32
	National col.	0.15	0.16	0.25	0.49	0.36	0.39	0.17	0.35	0.62	0.67	0.48	0.47	0.53	0.59
	International col.	2.49	2.26	0.85	0.73	0.71	0.50	0.62	1.03	1.42	1.52	0.89	0.88	1.17	1.08
Institute of Geophysics ASCR	Single institute	0.27	0.22	0.20	0.23	0.27	0.49	0.44	0.64	0.52	0.45	0.54	0.54	0.49	0.57



Bibliometric Analysis of the Czech Republic Research Output in an International Context – Institutional Analysis / Annex 8 to the Second Interim Report

Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
	National col.	0.00	0.00	0.00	0.19	0.63	0.71	0.38	0.32	0.24	0.23	0.41	0.81	0.98	0.73
	International col.	0.26	0.29	0.52	0.48	0.60	0.62	0.46	0.50	0.50	0.49	0.57	0.64	0.72	0.80
Institute of Photonics and Electronics ASCR	Single institute	0.16	0.15	0.41	0.44	0.49	0.26	0.31	0.40	0.46	0.91	1.66	1.02	1.33	1.66
	National col.	0.00	0.00	0.04	0.16	0.32	0.15	0.29	0.51	1.25	0.77	0.56	0.61	0.43	0.49
	International col.	0.94	1.02	1.30	0.81	0.85	0.63	0.58	0.77	0.79	0.83	1.00	1.34	1.33	0.85
Tomas Bata University in Zlin	Single institute	0.00	0.26	0.14	0.00	0.00	0.00	0.00	0.19	0.19	0.16	0.27	0.36	0.51	0.36
	National col.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.20	0.37	0.53	0.50	0.46	0.42
	International col.	0.00	0.00	0.00	0.00	1.03	0.93	0.92	0.40	0.58	0.53	0.79	0.56	0.66	0.64
ASCR unresolved	Single institute	0.53	0.77	0.94	0.70	1.30	3.50	3.15	0.38	0.11	0.29	0.43	0.28	0.16	0.11
	National col.	0.50	0.48	0.32	0.24	0.31	0.23	0.19	0.30	0.35	0.27	0.36	0.39	0.47	0.48
	International col.	0.92	0.77	0.73	0.69	0.75	0.84	0.75	1.18	1.24	1.08	0.84	0.82	0.72	0.68
University Hospital Hradec Kralove	Single institute	0.00	0.06	0.00	0.11	0.31	0.49	0.00	0.13	0.36	0.68	0.61	0.00	0.21	0.29
	National col.	0.00	0.00	0.24	0.27	0.28	0.18	0.23	0.28	0.33	0.35	0.25	0.29	0.37	0.45
	International col.	2.10	1.70	0.43	0.67	1.31	2.59	3.93	5.35	0.68	0.61	0.97	1.33	1.36	0.97
Technical University of Liberec	Single institute	1.92	0.90	1.02	0.52	0.11	0.14	0.66	0.40	0.34	0.14	0.20	0.20	0.15	0.29
	National col.	0.52	0.30	0.22	0.38	0.42	0.23	0.22	0.31	0.46	0.48	0.20	0.42	0.27	0.44
	International col.	2.25	0.91	0.24	0.41	0.41	0.64	0.44	0.96	1.05	0.76	0.66	0.84	1.05	1.13
Institute of Atmospheric Physics ASCR	Single institute	0.23	0.18	0.19	0.39	0.40	0.33	0.41	0.42	0.31	0.22	0.24	0.44	0.53	0.92
	National col.	0.00	0.47	0.18	0.22	0.48	0.44	0.56	0.51	0.36	0.47	0.32	0.41	0.49	0.59
	International col.	0.27	0.26	0.13	0.13	0.25	0.27	0.34	0.51	0.37	0.57	0.50	0.54	0.64	0.62
University Hospital Olomouc	Single institute	0.46	0.39	0.00	0.07	0.07	0.22	0.18	0.28	0.54	0.08	0.19	0.35	0.35	0.56
	National col.	0.00	0.10	0.17	0.17	0.08	0.10	0.14	0.25	0.35	0.32	0.35	0.38	0.38	0.52
	International col.	1.54	1.59	2.14	1.17	0.75	0.56	0.88	1.16	0.96	0.68	0.92	1.11	0.58	0.65
Institute of Geology ASCR	Single institute	0.17	0.18	0.20	0.32	0.26	0.28	0.06	0.15	0.33	0.21	0.26	0.37	0.35	0.56
	National col.	0.14	0.14	0.22	0.38	0.49	0.51	0.00	0.06	0.25	0.20	0.20	0.39	0.43	0.43
	International col.	0.35	0.78	1.01	1.30	0.91	0.29	0.48	0.49	0.54	0.65	0.39	0.69	0.56	0.65

Bibliometric Analysis of the Czech Republic Research Output in an International Context – Institutional Analysis / Annex 8 to the Second Interim Report

Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Institute of Endocrinology	Single institute	0.08	0.22	0.46	0.51	0.65	0.39	0.11	0.15	0.23	0.33	0.40	0.43	0.45	0.37
	National col.	0.04	0.10	0.12	0.14	0.16	0.27	0.34	0.34	0.44	0.48	0.51	0.52	0.52	0.46
	International col.	0.25	0.26	0.69	1.23	1.34	0.85	0.42	0.27	0.23	0.28	0.48	0.50	0.73	1.10
National Museum	Single institute	0.00	0.00	0.22	0.31	0.21	0.00	0.48	0.54	0.70	0.23	0.18	0.23	0.36	0.17
	National col.	0.70	0.52	0.32	0.28	0.41	0.54	0.18	0.29	0.58	0.71	0.68	0.67	0.46	0.54
	International col.	0.00	0.30	0.53	0.77	1.15	0.53	0.02	0.03	0.40	0.65	0.74	0.43	0.54	0.58
Silesian University in Opava	Single institute	0.73	0.48	0.27	0.19	0.20	0.02	0.00	0.14	0.29	0.51	0.37	0.30	0.31	0.38
	National col.			0.00	0.00	0.26	0.53	0.48	0.42	0.39	0.54	0.00	8.66	2.60	1.12
	International col.	0.69	0.25	0.32	0.18	0.08	0.13	0.09	0.41	0.33	0.53	0.82	0.86	1.10	0.73
Jan Evangelista Purkyně University in Ústí nad Labem	Single institute	0.00	0.00	0.10	0.48	0.14	0.14	0.00	0.13	0.20	0.54	1.12	0.57	0.79	0.26
	National col.	0.00	0.00	0.18	0.25	0.15	0.36	0.38	0.34	0.35	0.41	0.33	0.32	0.53	0.39
	International col.	1.01	2.01	1.73	1.64	1.09	0.89	0.86	0.45	0.41	0.60	0.86	0.91	0.73	0.55
Institute of Thermomechanics ASCR	Single institute	0.00	0.12	0.59	0.27	0.47	0.57	0.48	0.34	0.22	0.17	0.24	0.14	0.23	0.49
	National col.	0.58	0.27	0.00	0.19	0.14	0.04	0.10	0.15	0.19	0.13	0.06	0.17	0.24	0.42
	International col.	0.38	0.69	0.69	0.55	0.53	0.54	0.52	1.07	0.21	0.20	0.36	0.37	0.43	0.44
Masaryk Memorial Cancer Institute	Single institute	4.67	3.04	1.94	0.11	0.15	0.30	0.30	0.39	0.34	0.23	0.42	0.71	0.66	0.43
	National col.	0.00	0.05	0.39	0.77	1.11	0.36	0.29	0.16	0.29	0.38	0.27	0.40	0.44	0.69
	International col.	3.64	2.85	1.57	1.77	2.09	3.89	3.94	3.97	0.92	1.12	1.75	2.18	1.94	1.93
University Hospital in Plzeň	Single institute	0.00	0.00	1.11	1.23	1.21	0.15	0.28	0.48	0.62	0.06	0.28	0.40	0.34	0.44
	National col.	0.00	0.00	0.27	0.36	0.35	0.32	0.46	0.38	0.23	0.26	0.35	0.34	0.38	0.46
	International col.	0.32	0.41	0.88	0.95	0.61	0.73	0.70	0.68	0.75	0.82	1.08	0.81	0.89	1.58
Institute of Scientific Instruments ASCR	Single institute	0.80	0.54	0.08	0.06	0.15	0.48	0.79	0.54	0.45	0.18	0.13	0.21	0.70	0.84
	National col.	0.18	0.19	0.35	0.39	0.35	0.86	0.70	0.11	0.36	0.24	0.16	0.19	0.29	0.36
	International col.	1.16	0.81	0.53	0.73	0.25	0.35	0.49	0.15	0.39	0.55	0.79	1.08	1.40	1.43
Na Homolce Hospital	Single institute	0.00	0.11	0.06	0.00	0.54	0.49	0.30	0.61	0.31	0.18	0.38	0.41	0.64	1.05
	National col.	0.32	0.30	0.14	0.05	0.30	0.43	0.59	0.49	0.56	0.56	0.53	0.61	0.77	0.69
	International col.			0.00	1.87	1.82	1.78	1.22	1.05	0.70	1.10	0.86	1.04	0.84	1.54

Bibliometric Analysis of the Czech Republic Research Output in an International Context – Institutional Analysis / Annex 8 to the Second Interim Report

Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
Institute of Rock Structure and Mechanics ASCR	Single institute	0.25	0.21	0.19	0.00	0.25	0.09	0.11	0.06	0.00	0.24	0.21	0.14	0.24	0.23
	National col.	0.00	0.00	0.03	0.10	0.42	0.63	0.30	0.21	0.34	0.15	0.29	0.54	0.29	0.36
	International col.	0.00	0.00	0.12	0.22	0.31	0.79	0.51	0.47	0.51	0.68	0.89	1.16	1.05	0.26
University of Ostrava	Single institute	0.00	0.25	0.33	0.08	0.00	0.36	0.48	0.28	0.18	0.24	0.53	0.65	0.83	0.63
	National col.	0.00	0.00	0.36	0.54	0.50	0.61	0.10	0.34	0.85	0.93	0.97	0.73	0.32	0.47
	International col.					1.85	0.48	0.55	0.93	1.63	1.49	0.85	0.55	0.66	0.90
CERGE-Economics Institute ASCR	Single institute	0.21	0.12	0.13	0.08	0.18	0.16	0.12	0.18	0.15	0.32	0.62	0.38	0.40	0.49
	National col.	0.00	0.00	0.19	0.66	0.60	1.19	0.58	0.29	0.09	0.32	0.25	0.43	0.48	0.63
	International col.	0.00	1.57	2.49	1.86	1.04	0.42	0.82	1.14	1.49	1.81	1.35	1.61	0.90	0.77
St. Anne's University Hospital Brno	Single institute	0.00	0.00	0.00	0.00	0.00	0.11	0.12	0.04	0.03	0.30	0.67	0.09	0.06	0.12
	National col.	0.00	0.00	0.00	0.41	0.72	1.00	0.25	0.40	0.42	0.28	0.29	0.46	0.50	0.53
	International col.	1.50	1.58	1.85	1.16	1.08	1.47	0.59	0.66	0.69	1.00	1.45	1.84	0.83	0.57
Institute of Psychology ASCR	Single institute	0.00	0.00	0.09	0.20	0.33	0.31	0.25	0.05	0.31	0.42	0.36	0.26	0.22	0.11
	National col.	0.10	0.04	0.00	0.03	0.12	0.36	0.27	0.24	0.58	0.41	0.40	0.37	0.29	0.16
	International col.	0.00	0.00	0.16	0.73	0.88	6.48	5.96	4.87	0.19	0.63	1.25	1.20	0.21	0.42
Prague Psychiatric Centre	Single institute	0.35	0.26	0.19	0.34	0.30	0.10	0.07	0.06	0.25	0.00	0.00	0.00	0.06	0.05
	National col.	0.11	0.09	0.19	0.10	0.08	0.12	0.12	0.15	0.28	0.37	0.55	0.71	0.82	0.70
	International col.	0.75	0.38	1.59	3.46	6.92	1.01	1.06	0.77	0.85	0.53	0.81	0.69	0.70	0.91
Institute of Sociology ASCR	Single institute	0.79	0.64	0.64	0.67	0.66	0.50	0.43	0.29	0.29	0.33	0.32	0.41	0.54	0.55
	National col.	1.75	1.95	1.01	0.53			0.00	0.00	0.00	0.54	0.37	0.48	0.81	0.77
	International col.	0.00	0.00	0.00	0.84	0.44	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.56
Czech National Bank	Single institute	0.28	0.22	0.17	0.35	0.52	0.88	0.73	0.69	0.60	0.61	0.33	0.19	0.14	0.17
	National col.		0.00	0.00	0.00	0.30	0.54	0.83	0.77	0.48	0.44	0.52	0.47	0.74	0.79
	International col.		0.00	0.00	0.00	0.00	0.24	0.47	0.60	0.37	0.13	0.28	0.71	1.50	0.33
University Hospital Kralovske Vinohrady	Single institute		0.00	0.00	0.00	0.14	0.11	0.21	0.05	0.13	0.31	0.85	1.12	0.00	0.00
	National col.	0.11	0.12	0.00	0.00	0.16	0.23	0.38	0.48	0.29	0.30	0.51	0.55	0.49	0.60

Bibliometric Analysis of the Czech Republic Research Output in an International Context – Institutional Analysis / Annex 8 to the Second Interim Report

Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
	International col.	0.00	0.00	0.00	0.04	0.79	1.23	3.11	2.20	2.68	2.55	3.12	1.76	2.27	3.28
Zentiva	Single institute	0.15	0.22	0.30	0.38	0.47	0.44	0.10	0.11	0.21	0.41	0.21	0.10	0.06	0.20
	National col.	0.05	0.09	0.14	0.11	0.16	0.23	0.28	0.40	0.36	0.51	0.27	0.23	0.25	0.28
	International col.	0.00	0.00	0.00	0.00	0.00	0.38	1.93	3.46	3.27	2.78	0.56	0.60	1.01	0.90
Institute of Philosophy ASCR	Single institute	0.53	0.31	0.15	0.50	0.38	0.53	0.07	0.59	0.39	0.82	1.67	1.02	1.22	0.52
	National col.	0.00	0.00	5.83	2.43	1.57	0.36			0.00	0.00	0.00	0.00	0.00	0.28
	International col.								0.00	0.00	0.00	0.00	0.00	0.00	0.00
Research Institute of Organic Syntheses	Single institute	0.00	0.13	0.28	0.15	0.27	0.16	0.69							
	National col.	0.00	0.13	0.07	0.00	0.00	0.04	0.06	0.34	0.51	0.44	0.40	0.23	0.30	0.34
	International col.	0.53	0.36	0.09	0.19	0.28	0.15	0.13	0.39	0.43	0.52	0.27	0.51	0.47	0.41
Institute for Postgraduate Medical Education	Single institute	0.08	0.08	0.00	0.06	0.42	1.09	0.18	0.17	0.00	0.00	0.00		0.00	0.51
	National col.	0.11	0.05	0.08	0.19	0.24	0.15	0.14	0.13	0.33	0.56	0.73	0.36	0.47	0.59
	International col.	0.57	0.45	0.52	0.50	0.69	0.78	0.63	1.85	1.81	2.59	0.84	1.30	1.95	2.76
Nuclear Research Institute Rez	Single institute	0.00	0.00	0.00	0.19	0.31	0.29	0.20	0.26	0.68	0.84	0.56	0.49	0.21	0.58
	National col.	0.00	0.00	0.00	0.24	0.14	0.28	1.10	1.28	0.87	0.92	0.29	0.19	0.24	0.30
	International col.	0.00	0.00	0.00	0.19	0.00	0.26	0.46	0.37	0.13	0.14	0.49	0.41	0.38	0.39
Faculty Hospital Na Bulovce	Single institute	0.80	0.82	0.19	0.00	0.07	0.29	0.39	0.50	0.40	0.00				0.00
	National col.	1.00	0.71	0.33	0.11	0.23	0.25	0.28	0.15	0.17	0.24	0.20	0.21	0.35	0.69
	International col.	0.64	0.58	0.76	0.81	0.98	0.84	0.49	1.32	1.75	2.12	0.98	1.38	2.17	1.72
University Hospital Ostrava	Single institute	0.00	0.00	0.00	0.07	0.06	0.07	0.00	0.06	0.14	0.71	0.24	0.20	0.09	0.12
	National col.	0.29	0.37	0.18	0.63	0.73	1.16	0.21	0.23	0.42	0.58	0.84	0.22	0.33	0.25
	International col.				0.00	0.00	0.41	0.55	0.89	1.74	1.28	1.78	2.82	2.75	4.75
University of Hradec Kralove	Single institute	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.13	0.24	0.13	0.63	0.66	0.59
	National col.	0.00	0.95	1.22	0.88	0.00	0.44	1.39	0.85	0.58	0.40	0.71	0.29	0.23	0.22
	International col.		0.00	0.00	1.49	1.21	0.66	0.37	1.35	1.29	1.21	0.88	1.22	1.98	0.34
State Veterinary Administration of the Czech Republic	Single institute	0.00	0.48	0.38	2.52	2.04	1.64	3.25		0.00	1.80	0.64	0.55	0.82	3.99
	National col.	0.35	0.30	0.31	0.39	0.19	0.53	0.46	0.61	0.79	1.06	0.88	0.85	0.84	1.25

Bibliometric Analysis of the Czech Republic Research Output in an International Context – Institutional Analysis / Annex 8 to the Second Interim Report

Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
	International col.		0.00	0.00	0.19	0.38	0.86	0.66	1.00	1.53	1.57	1.13	0.74	1.36	1.87
Teva Czech Industries	Single institute	0.00	0.87	0.86	0.61	0.68	0.48	0.63	0.00	0.60	0.28	0.37			
	National col.	0.35	0.36	0.13	0.07	0.10	0.12	0.19	0.26	0.18	0.24	0.43	0.30	0.27	0.27
	International col.	0.28	0.39	0.40	0.64	0.36	0.27	0.00	0.00	0.18	0.34	0.10	0.17	0.17	1.77
Institute of Rheumatology	Single institute	0.00	0.11	0.23	0.00	0.00	0.00	0.00	0.25	1.06	2.37	4.46	0.28	0.21	0.17
	National col.	0.00	0.19	0.44	0.53	1.20	1.10	0.59	0.36	0.33	0.31	0.27	0.56	0.56	0.95
	International col.	0.46	0.57	0.27	0.51	1.06	4.95	4.21	2.05	2.10	3.83	4.70	4.79	3.38	4.19
Central Military Hospital Prague	Single institute		0.00	0.00	0.00	0.00	0.10	0.10	0.21	0.11	0.15	0.08	0.16	0.68	0.44
	National col.	0.00	0.00	0.26	0.43	0.10	0.08	0.32	0.40	0.45	0.43	0.61	0.21	0.48	0.59
	International col.					0.00	1.30	0.72	0.91	1.02	0.95	0.52	1.85	2.75	4.29
Research Institute for Cattle Breeding	Single institute	0.32	0.29	0.00	0.12	0.12	0.62	0.38	0.11	0.00	0.00	0.00	0.00	0.00	0.00
	National col.	0.00	0.00	0.29	0.53	0.13	0.26	0.36	0.25	0.44	0.44	0.39	0.49	0.19	0.69
	International col.				0.00	0.00	0.00	0.00	0.00	1.44	1.35	1.28	0.00	0.09	0.16
VUC Praha	Single institute	0.38	0.13	0.08	0.07	0.07	0.06	0.08	0.04	0.02	0.11	0.00	0.00	0.50	0.44
	National col.						0.00	0.00	0.00	0.00					4.19
Thomayer University Hospital	Single institute	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00
	National col.	0.00	0.00	0.00	0.04	0.11	0.03	0.00	0.02	0.34	0.54	0.74	0.19	0.28	0.32
	International col.	6.49	1.61	1.25	1.65	0.81	0.93	0.93	0.40	0.45	0.69	1.01	0.91	1.04	0.38
Czech Hydrometeorological Institute	Single institute				0.00	0.00	0.45	0.21	0.26	0.23	0.74	0.87	1.01	0.13	0.38
	National col.	0.16	0.07	0.05	0.13	0.27	0.00	0.00	0.00	0.20	0.69	0.62	0.43	0.36	0.40
	International col.	0.81	1.35	0.93	0.43	1.38	1.60	0.95	1.22	0.99	0.78	0.67	0.75	2.21	2.92
Institute of Hydrodynamics ASCR	Single institute	0.45	0.48	0.00	0.62	0.00	0.16	0.44	1.25	0.97	0.22	0.21	0.08	0.17	0.21
	National col.	0.00	0.43	0.28	0.25	0.00	0.71	0.29	0.68	0.42	0.37	0.38	0.35	0.17	0.30
	International col.	1.34	1.25	0.50	0.52	0.13	0.06	0.09	0.10	0.24	0.25	0.63	0.81	0.75	0.81
Military Geography and Hydrometeorology Office Dobruska	Single institute	0.00	0.11	0.05	0.00	0.00	0.00	0.12	0.24	0.62	0.36	0.00	0.00	0.00	0.00
	National col.	0.00	0.14	0.09	0.16	0.00	0.00	0.00	0.00	0.00	0.12	0.28	0.41	0.20	0.32

Bibliometric Analysis of the Czech Republic Research Output in an International Context – Institutional Analysis / Annex 8 to the Second Interim Report

Institute	Type coop.	1993-1996	1994-1997	1995-1998	1996-1999	1997-2000	1998-2001	1999-2002	2000-2003	2001-2004	2002-2005	2003-2006	2004-2007	2005-2008	2006-2009
	International col.		0.00	0.00	0.00	0.25	0.19	0.38	0.17	0.10	0.30	0.52	0.35	0.23	0.35
Czech Metrology Institute	Single institute	0.00	0.95	0.38	0.21	0.23	0.00	0.00	0.00	0.10	0.26	0.55	0.71	0.43	0.22
	National col.	0.00	0.00	0.00	0.00	0.00	0.71	0.21	0.15	0.26	0.22	0.19	0.16	0.08	0.04
	International col.	0.00	2.01	1.20	0.59	0.89	1.08	0.51	0.49	0.53	0.36	0.44	0.45	0.35	0.34
Institute of Geonics ASCR	Single institute	0.00	0.69	0.34	0.40	0.31	0.33	0.34	0.66	1.30	1.18	1.08	0.13	0.34	0.37
	National col.	0.00	0.00	0.00	0.51	0.67	1.46	0.59	0.00	0.10	0.33	0.30	0.07	0.18	0.11
	International col.	0.00	0.00	0.00	0.17	0.24	0.00	0.00	0.00	3.65	1.09	0.64	0.12	0.34	0.54
Institute of Theoretical and Applied Mechanics ASCR	Single institute	0.11	0.05	0.07	0.00	0.17	0.12	0.09	0.37	0.41	0.54	0.44	0.60	0.61	0.53
	National col.	0.00	0.00		0.00	0.00	0.00	0.24	1.00	0.60	0.42	0.18	0.11	0.30	0.37
	International col.	0.00	0.00	0.00	0.00	0.24	0.94	1.22	0.33	0.31	0.35	0.28	0.40	0.26	0.57
Moravian Museum	Single institute	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.81	0.11	0.22	0.00	0.00
	National col.		0.00	0.00	0.48	0.26	0.42		0.00	0.00	0.25	0.35	0.82	0.65	0.52
	International col.	1.36	0.76	0.51	0.25	0.40	0.16	0.31	0.12	0.05	0.16	0.13	0.25	0.69	0.75
National Radiation Protection Institute	Single institute	0.00	0.83	0.37	0.16	0.28	0.45	0.49	0.10	0.14	0.13	0.18	0.26	0.00	0.00
	National col.				2.25	0.86	0.53	0.49	0.21	0.47	0.31	0.29	0.67	1.07	0.34
	International col.		7.55	7.60	3.95	2.59	0.00	0.53	0.62	0.60	1.57	1.47	1.65	2.99	0.93

## Appendix I - General indicators for the main Czech institutions by Fields

Note: All institutes and organizations with at least 5 publications have been included here. Some institutes were not included in the list of the first 100 institutions (these cases are normally in capital letters and names are abbreviated).

Field	Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
AGRICULTURE AND FOOD SCIENCE	Academy of Sciences (global)	697	2943	4.22	0.72	0.60	0.84	32%	34%
AGRICULTURE AND FOOD SCIENCE	Czech University of Life Sciences Prague	663	1067	1.61	1.08	0.34	0.32	52%	36%
AGRICULTURE AND FOOD SCIENCE	Mendel University in Brno	509	976	1.92	0.80	0.33	0.41	45%	33%
AGRICULTURE AND FOOD SCIENCE	Institute of Chemical Technology Prague	397	1289	3.25	0.87	0.61	0.70	47%	24%
AGRICULTURE AND FOOD SCIENCE	Institute of Animal Science	391	1028	2.63	0.90	0.48	0.53	37%	33%
AGRICULTURE AND FOOD SCIENCE	Crop Research Institute	346	876	2.53	0.96	0.41	0.42	46%	31%
AGRICULTURE AND FOOD SCIENCE	University of South Bohemia in Ceske Budejovice	298	1000	3.36	0.90	0.59	0.66	41%	30%
AGRICULTURE AND FOOD SCIENCE	Charles University in Prague	250	1046	4.18	0.68	0.52	0.76	39%	30%
AGRICULTURE AND FOOD SCIENCE	Biology Centre ASCR	168	702	4.18	0.59	0.50	0.84	26%	35%
AGRICULTURE AND FOOD SCIENCE	University of Veterinary and Pharmaceutical Sciences Brno	145	265	1.83	1.05	0.47	0.45	41%	39%
AGRICULTURE AND FOOD SCIENCE	Food Research Institute Prague	60	207	3.45	0.93	0.77	0.83	45%	24%
AGRICULTURE AND FOOD SCIENCE	Research Institute of Soil and Water Conservation	57	71	1.25	1.04	0.17	0.16	49%	38%
AGRICULTURE AND FOOD SCIENCE	Institute of Experimental Botany ASCR	52	274	5.27	0.83	1.03	1.23	35%	39%
AGRICULTURE AND FOOD SCIENCE	Institute of Systems Biology and Ecology ASCR	51	166	3.25	0.83	0.71	0.86	55%	33%
AGRICULTURE AND FOOD SCIENCE	Institute of Organic Chemistry and Biochemistry ASCR	47	155	3.30	0.61	0.58	0.95	38%	46%
AGRICULTURE AND FOOD SCIENCE	Institute of Botany ASCR	46	215	4.67	0.77	0.87	1.13	20%	35%
AGRICULTURE AND FOOD SCIENCE	University of Pardubice	42	135	3.21	1.00	0.80	0.80	62%	23%

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Field	Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
AGRICULTURE AND FOOD SCIENCE	Hop Research Institute	40	56	1.40	0.84	0.24	0.28	65%	40%
AGRICULTURE AND FOOD SCIENCE	Potato Research Institute	38	33	0.87	0.52	0.14	0.26	55%	44%
AGRICULTURE AND FOOD SCIENCE	Research Institute of Brewing nad Malting	37	55	1.49	1.00	0.36	0.36	51%	41%
AGRICULTURE AND FOOD SCIENCE	Institute of Physiology ASCR	37	105	2.84	0.42	0.36	0.84	38%	44%
AGRICULTURE AND FOOD SCIENCE	Institute of Biophysics ASCR	37	282	7.62	0.93	1.03	1.11	27%	32%
AGRICULTURE AND FOOD SCIENCE	Czech Technical University in Prague	34	95	2.79	0.63	0.50	0.80	44%	30%
AGRICULTURE AND FOOD SCIENCE	National Institute of Public Health and regional hygienic stations	30	75	2.50	0.65	0.48	0.74	40%	32%
AGRICULTURE AND FOOD SCIENCE	Brno University of Technology	30	36	1.20	0.61	0.33	0.54	77%	23%
AGRICULTURE AND FOOD SCIENCE	Research Institute for Fodder Crops	30	23	0.77	0.58	0.15	0.26	63%	32%
AGRICULTURE AND FOOD SCIENCE	Tomas Bata University in Zlin	26	26	1.00	0.49	0.43	0.88	58%	59%
AGRICULTURE AND FOOD SCIENCE	Institute for Clinical and Experimental Medicine	24	105	4.38	0.59	0.49	0.83	42%	23%
AGRICULTURE AND FOOD SCIENCE	Institute of Vertebrate Biology ASCR	17	30	1.76	1.11	0.39	0.35	41%	23%
AGRICULTURE AND FOOD SCIENCE	AGRITEC, Research, Breeding & Services, Ltd.	15	17	1.13	0.62	0.26	0.42	53%	37%
AGRICULTURE AND FOOD SCIENCE	Institute of Inorganic Chemistry ASCR	14	42	3.00	0.80	0.48	0.61	21%	51%
AGRICULTURE AND FOOD SCIENCE	Institute of Molecular Genetics ASCR	13	33	2.54	0.40	0.36	0.90	38%	47%
AGRICULTURE AND FOOD SCIENCE	RES INST AGR ENGN	13	8	0.62	2.43	0.08	0.03	69%	0%
AGRICULTURE AND FOOD SCIENCE	BIOFAKTORY PRAHA SRO	13	53	4.08	0.89	0.48	0.54	31%	24%
AGRICULTURE AND FOOD SCIENCE	Institute of Analytical Chemistry ASCR	12	15	1.25	0.43	0.34	0.79	58%	62%
AGRICULTURE AND FOOD SCIENCE	CZECH AGR & FOOD INSPECT AUTHOR	12	33	2.75	0.82	0.69	0.84	42%	18%
AGRICULTURE AND FOOD SCIENCE	MILCOM LTD	12	13	1.08	1.20	0.25	0.21	42%	48%
AGRICULTURE AND FOOD SCIENCE	BIOPHARM Research Institute of Biopharmacy and Veterinary Drugs	12	12	1.00	0.34	0.18	0.53	75%	50%
AGRICULTURE AND FOOD SCIENCE	OSEVA	11	22	2.00	0.62	0.29	0.47	27%	24%
AGRICULTURE AND FOOD SCIENCE	University Hospital Hradec Kralove	11	22	2.00	0.56	0.41	0.73	45%	8%
AGRICULTURE AND FOOD SCIENCE	University of Hradec Kralove	11	6	0.55	0.45	0.21	0.48	73%	57%



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AGRICULTURE AND FOOD SCIENCE	Jan Evangelista Purkyně University in Ústí nad Labem	11	23	2.09	0.67	0.35	0.52	45%	44%
AGRICULTURE AND FOOD SCIENCE	SETUZA AS	11	63	5.73	0.84	0.49	0.58	9%	13%
AGRICULTURE AND FOOD SCIENCE	Institute of Endocrinology	10	50	5.00	0.77	0.73	0.95	10%	26%
AGRICULTURE AND FOOD SCIENCE	Research Institute Silva Taroucy	9	69	7.67	1.10	0.99	0.90	11%	20%
AGRICULTURE AND FOOD SCIENCE	Institute of Hydrodynamics ASCR	8	15	1.88	0.78	0.51	0.66	63%	44%
AGRICULTURE AND FOOD SCIENCE	Institute of Experimental Medicine ASCR	8	28	3.50	0.89	0.63	0.71	50%	35%
AGRICULTURE AND FOOD SCIENCE	Institute of Agricultural Economics and Informations Praha	8	6	0.75	0.50	0.13	0.25	63%	25%
AGRICULTURE AND FOOD SCIENCE	State Veterinary Administration of the Czech Republic	8	13	1.63	0.63	0.53	0.85	50%	46%
AGRICULTURE AND FOOD SCIENCE	SVAZ PESTITELU CUKROVKY CECH	8	4	0.50	1.44	0.16	0.11	75%	20%
AGRICULTURE AND FOOD SCIENCE	VSB-Technical University of Ostrava	7	48	6.86	0.55	0.62	1.13	14%	34%
AGRICULTURE AND FOOD SCIENCE	Institute of Chemical Process Fundamentals ASCR	7	10	1.43	0.40	0.45	1.13	57%	38%
AGRICULTURE AND FOOD SCIENCE	Institute of Physics ASCR	7	27	3.86	0.38	0.45	1.19	14%	56%
AGRICULTURE AND FOOD SCIENCE	Institute for Postgraduate Medical Education	7	10	1.43	1.58	0.94	0.59	57%	17%
AGRICULTURE AND FOOD SCIENCE	Institute of Geology ASCR	7	6	0.86	0.57	0.30	0.53	57%	68%
AGRICULTURE AND FOOD SCIENCE	Czech Geological Survey	7	27	3.86	0.44	0.69	1.59	14%	48%
AGRICULTURE AND FOOD SCIENCE	J. Heyrovsky Institute of Physical Chemistry ASCR	7	40	5.71	0.35	0.65	1.86	29%	56%
AGRICULTURE AND FOOD SCIENCE	Research and Breeding Institute of Pomology Holovousy	7	9	1.29	0.40	0.27	0.68	29%	44%
AGRICULTURE AND FOOD SCIENCE	Research Institute of Inorganic Chemistry	6	12	2.00	0.83	0.28	0.34	50%	25%
AGRICULTURE AND FOOD SCIENCE	CUKROVARY & IIHOVARY TTD AS	6	2	0.33	1.08	0.09	0.08	83%	50%
AGRICULTURE AND FOOD SCIENCE	Agency for Nature Conservation and Landscape Protection of the Czech Republic	6	14	2.33	1.12	0.67	0.60	33%	42%
AGRICULTURE AND FOOD SCIENCE	Institute of Macromolecular Chemistry ASCR	6	59	9.83	1.40	1.47	1.05	50%	24%

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AGRICULTURE AND FOOD SCIENCE	Institute of Atmospheric Physics ASCR	6	29	4.83	1.26	1.60	1.27	33%	26%
AGRICULTURE AND FOOD SCIENCE	Czech Hydrometeorological Institute	6	7	1.17	0.38	0.68	1.80	50%	56%
AGRICULTURE AND FOOD SCIENCE	University of Defense	5	6	1.20	0.26	0.18	0.70	40%	57%
AGRICULTURE AND FOOD SCIENCE	University Hospital in Plzen	5	46	9.20	1.23	0.93	0.76	40%	12%
AGRICULTURE AND FOOD SCIENCE	Forestry and Game Management Research Institute	5	6	1.20	0.29	0.35	1.21	80%	45%
AGRICULTURE AND FOOD SCIENCE	SELGEN AS	5	1	0.20	0.29	0.06	0.22	80%	0%
AGRICULTURE AND FOOD SCIENCE	CZECH MORAVIAN BREEDERS CORP	5	3	0.60	0.68	0.32	0.48	60%	75%
AGRICULTURE AND FOOD SCIENCE	BUDWEISER BUDVAR NC	5	22	4.40	0.79	0.50	0.64	60%	15%
ASTRONOMY AND ASTROPHYSICS	Academy of Sciences (global)	1247	5907	4.74	0.57	0.41	0.72	30%	41%
ASTRONOMY AND ASTROPHYSICS	Astronomical Institute ASCR	888	4519	5.09	0.55	0.41	0.75	29%	38%
ASTRONOMY AND ASTROPHYSICS	Charles University in Prague	734	4559	6.21	0.73	0.60	0.82	26%	42%
ASTRONOMY AND ASTROPHYSICS	Institute of Atmospheric Physics ASCR	191	544	2.85	0.85	0.30	0.36	36%	49%
ASTRONOMY AND ASTROPHYSICS	Masaryk University	94	367	3.90	0.55	0.45	0.83	49%	39%
ASTRONOMY AND ASTROPHYSICS	Institute of Physics ASCR	90	497	5.52	0.52	0.64	1.21	24%	45%
ASTRONOMY AND ASTROPHYSICS	Czech Technical University in Prague	63	289	4.59	0.65	0.60	0.92	32%	42%
ASTRONOMY AND ASTROPHYSICS	Silesian University in Opava	50	132	2.64	0.34	0.33	0.99	36%	53%
ASTRONOMY AND ASTROPHYSICS	Nuclear Physics Institute ASCR	30	73	2.43	0.32	0.33	1.05	43%	60%
ASTRONOMY AND ASTROPHYSICS	Observatory and Planetarium Nicolaus Copernicus	28	179	6.39	0.79	0.51	0.64	25%	42%
ASTRONOMY AND ASTROPHYSICS	Institute of Geophysics ASCR	28	57	2.04	0.48	0.16	0.35	43%	42%
ASTRONOMY AND ASTROPHYSICS	Institute of Mathematics ASCR	18	156	8.67	1.13	1.08	0.96	17%	45%
ASTRONOMY AND ASTROPHYSICS	KLET OBSERV	12	12	1.00	0.13	0.06	0.47	50%	50%
ASTRONOMY AND ASTROPHYSICS	Brno University of Technology	11	10	0.91	0.29	0.25	0.86	55%	64%
ASTRONOMY AND ASTROPHYSICS	VSB-Technical University of Ostrava	11	6	0.55	0.18	0.15	0.81	73%	65%
ASTRONOMY AND ASTROPHYSICS	Palacky University Olomouc	9	38	4.22	0.82	0.58	0.71	44%	27%
ASTRONOMY AND ASTROPHYSICS	ASCR unresolved	7	77	11.00	1.20	1.13	0.94	14%	40%

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ASTRONOMY AND ASTROPHYSICS	Research Institute of Geodesy, Topography and Cartography	7	4	0.57	0.08	0.04	0.57	71%	33%
ASTRONOMY AND ASTROPHYSICS	UPICE OBSERV	5	2	0.40	0.06	0.03	0.47	60%	83%
ASTRONOMY AND ASTROPHYSICS	PRAGUE OBSERV	5	72	14.40	0.42	0.49	1.17	0%	50%
BASIC LIFE SCIENCES	Academy of Sciences (global)	5650	56887	10.07	0.84	0.63	0.75	18%	30%
BASIC LIFE SCIENCES	Charles University in Prague	2434	21384	8.79	0.81	0.62	0.76	22%	27%
BASIC LIFE SCIENCES	Institute of Microbiology ASCR	1210	8714	7.20	0.74	0.47	0.63	21%	29%
BASIC LIFE SCIENCES	Masaryk University	933	7553	8.10	0.78	0.61	0.78	20%	32%
BASIC LIFE SCIENCES	Institute of Physiology ASCR	657	6874	10.46	0.73	0.54	0.75	20%	30%
BASIC LIFE SCIENCES	Institute of Organic Chemistry and Biochemistry ASCR	623	4827	7.75	0.73	0.51	0.69	21%	34%
BASIC LIFE SCIENCES	Institute of Molecular Genetics ASCR	581	7032	12.10	0.74	0.66	0.89	16%	27%
BASIC LIFE SCIENCES	Institute of Biophysics ASCR	565	7026	12.44	0.87	0.76	0.87	17%	37%
BASIC LIFE SCIENCES	Biology Centre ASCR	548	4722	8.62	0.86	0.63	0.73	18%	33%
BASIC LIFE SCIENCES	University of South Bohemia in Ceske Budejovice	499	3491	7.00	0.84	0.69	0.82	23%	32%
BASIC LIFE SCIENCES	Palacky University Olomouc	477	3997	8.38	1.01	0.74	0.74	24%	26%
BASIC LIFE SCIENCES	Institute of Chemical Technology Prague	471	4083	8.67	0.84	0.68	0.80	20%	22%
BASIC LIFE SCIENCES	Institute of Experimental Medicine ASCR	402	5016	12.48	0.93	0.68	0.74	13%	27%
BASIC LIFE SCIENCES	Institute of Animal Physiology and Genetics ASCR	344	3400	9.88	0.91	0.60	0.66	16%	31%
BASIC LIFE SCIENCES	National Institute of Public Health and regional hygienic stations	314	2898	9.23	0.99	0.71	0.72	17%	30%
BASIC LIFE SCIENCES	Institute of Analytical Chemistry ASCR	288	3196	11.10	0.76	0.87	1.15	14%	22%
BASIC LIFE SCIENCES	Institute of Experimental Botany ASCR	287	3515	12.25	1.09	0.86	0.79	15%	27%
BASIC LIFE SCIENCES	Veterinary Research Institute	217	1697	7.82	0.97	0.71	0.73	21%	36%
BASIC LIFE SCIENCES	University of Pardubice	186	1707	9.18	0.96	0.91	0.94	24%	25%
BASIC LIFE SCIENCES	Institute of Macromolecular Chemistry ASCR	170	2147	12.63	1.15	0.99	0.86	18%	26%

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BASIC LIFE SCIENCES	Mendel University in Brno	156	835	5.35	0.72	0.53	0.74	24%	44%
BASIC LIFE SCIENCES	Institute of Hematology and Blood Transfusion	140	1251	8.94	0.76	0.49	0.65	16%	29%
BASIC LIFE SCIENCES	University of Defense	133	1102	8.29	1.00	0.87	0.87	23%	33%
BASIC LIFE SCIENCES	University of Veterinary and Pharmaceutical Sciences Brno	114	422	3.70	0.75	0.43	0.57	36%	32%
BASIC LIFE SCIENCES	J. Heyrovsky Institute of Physical Chemistry ASCR	109	1792	16.44	1.22	0.94	0.77	15%	32%
BASIC LIFE SCIENCES	Institute of Animal Science	99	1012	10.22	0.87	0.65	0.75	22%	22%
BASIC LIFE SCIENCES	Institute of Endocrinology	97	967	9.97	0.88	0.54	0.62	11%	30%
BASIC LIFE SCIENCES	General University Hospital Prague	95	891	9.38	0.78	0.63	0.81	23%	24%
BASIC LIFE SCIENCES	Czech University of Life Sciences Prague	89	403	4.53	0.79	0.41	0.52	30%	39%
BASIC LIFE SCIENCES	University Hospital Brno	85	675	7.94	0.82	0.55	0.68	21%	17%
BASIC LIFE SCIENCES	University Hospital Motol	84	699	8.32	0.72	0.69	0.96	25%	27%
BASIC LIFE SCIENCES	Institute for Clinical and Experimental Medicine	83	685	8.25	0.71	0.57	0.81	18%	25%
BASIC LIFE SCIENCES	Institute of Systems Biology and Ecology ASCR	82	723	8.82	1.00	0.70	0.70	22%	24%
BASIC LIFE SCIENCES	Institute of Botany ASCR	78	494	6.33	1.17	0.67	0.57	22%	34%
BASIC LIFE SCIENCES	University Hospital Hradec Kralove	72	484	6.72	1.09	0.67	0.61	32%	22%
BASIC LIFE SCIENCES	University Hospital Olomouc	72	467	6.49	0.87	0.57	0.66	25%	18%
BASIC LIFE SCIENCES	Masaryk Memorial Cancer Institute	70	924	13.20	0.82	0.84	1.03	14%	27%
BASIC LIFE SCIENCES	Institute of Vertebrate Biology ASCR	61	290	4.75	0.93	0.57	0.61	38%	31%
BASIC LIFE SCIENCES	Brno University of Technology	55	202	3.67	0.56	0.39	0.69	33%	33%
BASIC LIFE SCIENCES	Crop Research Institute	50	230	4.60	0.98	0.53	0.54	36%	36%
BASIC LIFE SCIENCES	Institute of Chemical Process Fundamentals ASCR	47	179	3.81	0.57	0.33	0.58	34%	38%
BASIC LIFE SCIENCES	Institute of Photonics and Electronics ASCR	45	545	12.11	2.27	1.26	0.55	29%	19%
BASIC LIFE SCIENCES	ASCR unresolved	43	518	12.05	0.78	0.63	0.81	19%	29%

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BASIC LIFE SCIENCES	Teva Czech Industries	40	287	7.18	0.64	0.41	0.65	13%	26%
BASIC LIFE SCIENCES	Czech Technical University in Prague	35	174	4.97	0.81	0.40	0.49	34%	30%
BASIC LIFE SCIENCES	Institute of Inorganic Chemistry ASCR	31	181	5.84	0.56	0.48	0.85	29%	36%
BASIC LIFE SCIENCES	University Hospital in Plzen	26	156	6.00	1.20	0.61	0.51	23%	15%
BASIC LIFE SCIENCES	State Veterinary Administration of the Czech Republic	22	187	8.50	1.20	0.90	0.75	18%	42%
BASIC LIFE SCIENCES	VSB-Technical University of Ostrava	22	102	4.64	0.69	0.30	0.43	23%	36%
BASIC LIFE SCIENCES	Jan Evangelista Purkyně University in Ústí nad Labem	22	149	6.77	0.61	0.70	1.14	32%	20%
BASIC LIFE SCIENCES	Institute for the Care of Mother and Child	21	125	5.95	0.94	0.49	0.52	29%	16%
BASIC LIFE SCIENCES	Faculty Hospital Na Bulovce	21	97	4.62	0.81	0.44	0.54	29%	31%
BASIC LIFE SCIENCES	Nuclear Physics Institute ASCR	21	105	5.00	0.75	0.33	0.44	33%	38%
BASIC LIFE SCIENCES	Prague Psychiatric Centre	20	85	4.25	0.58	0.24	0.41	30%	23%
BASIC LIFE SCIENCES	Institute for Postgraduate Medical Education	20	133	6.65	1.23	0.37	0.30	15%	30%
BASIC LIFE SCIENCES	Zentiva	20	105	5.25	0.89	0.49	0.55	20%	34%
BASIC LIFE SCIENCES	PHARMAKL SRO	19	245	12.89	1.14	1.05	0.92	16%	1%
BASIC LIFE SCIENCES	Institute of Physics ASCR	19	54	2.84	0.67	0.36	0.55	26%	29%
BASIC LIFE SCIENCES	Institute of Biotechnology ASCR	16	13	0.81	0.64	0.54	0.84	63%	35%
BASIC LIFE SCIENCES	Institute of Computer Science ASCR	16	72	4.50	0.83	0.31	0.37	31%	30%
BASIC LIFE SCIENCES	St. Anne's University Hospital Brno	15	117	7.80	1.21	0.64	0.53	13%	13%
BASIC LIFE SCIENCES	Regional Hospital Příbram	14	74	5.29	0.53	0.46	0.86	29%	46%
BASIC LIFE SCIENCES	Tomas Bata University in Zlín	14	10	0.71	0.36	0.18	0.51	64%	60%
BASIC LIFE SCIENCES	University Hospital Ostrava	14	113	8.07	0.85	0.50	0.59	14%	23%
BASIC LIFE SCIENCES	Na Homolce Hospital	14	84	6.00	1.43	0.56	0.39	29%	16%
BASIC LIFE SCIENCES	Central Military Hospital Prague	13	41	3.15	0.91	0.37	0.41	46%	23%
BASIC LIFE SCIENCES	Czech Hydrometeorological Institute	13	149	11.46	1.50	0.80	0.54	8%	32%
BASIC LIFE SCIENCES	Institute of Rheumatology	13	172	13.23	0.81	0.83	1.03	15%	22%

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Field	Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
BASIC LIFE SCIENCES	University Hospital Kralovske Vinohrady	13	17	1.31	0.50	0.17	0.33	77%	29%
BASIC LIFE SCIENCES	CPN SPOL SRO	12	63	5.25	1.79	0.63	0.36	33%	13%
BASIC LIFE SCIENCES	Agricultural Research Institute Kromeriz	12	40	3.33	0.81	0.42	0.51	33%	49%
BASIC LIFE SCIENCES	University of Ostrava	12	32	2.67	0.45	0.23	0.52	8%	35%
BASIC LIFE SCIENCES	BIOPHARM Research Institute of Biopharmacy and Veterinary Drugs	11	216	19.64	1.37	1.19	0.87	18%	12%
BASIC LIFE SCIENCES	National Radiation Protection Institute	10	56	5.60	0.68	0.46	0.67	20%	40%
BASIC LIFE SCIENCES	ISCARE	10	79	7.90	1.05	1.15	1.10	20%	13%
BASIC LIFE SCIENCES	Institute of Scientific Instruments ASCR	10	108	10.80	0.67	0.87	1.29	20%	26%
BASIC LIFE SCIENCES	Military Geography and Hydrometeorology Office Dobruska	10	25	2.50	0.74	0.50	0.68	50%	60%
BASIC LIFE SCIENCES	Institute of Theoretical and Applied Mechanics ASCR	9	33	3.67	0.21	0.26	1.24	22%	31%
BASIC LIFE SCIENCES	Centre of Cardiovascular and Transplantation Surgery	9	62	6.89	0.74	0.44	0.59	22%	17%
BASIC LIFE SCIENCES	GENERI BIOTECH SRO	9	24	2.67	1.16	0.53	0.46	44%	14%
BASIC LIFE SCIENCES	Research Institute Silva Taroucy	9	114	12.67	1.30	0.89	0.69	0%	20%
BASIC LIFE SCIENCES	Research Institute of Organic Syntheses	8	28	3.50	1.11	0.52	0.46	50%	45%
BASIC LIFE SCIENCES	University of West Bohemia in Plzen	8	5	0.63	0.21	0.16	0.73	63%	87%
BASIC LIFE SCIENCES	Hospital České Budějovice	8	42	5.25	1.33	0.59	0.44	38%	18%
BASIC LIFE SCIENCES	Research Institute of Inorganic Chemistry	8	49	6.13	0.26	0.34	1.33	38%	29%
BASIC LIFE SCIENCES	SANATORIUM PRONATAL	8	58	7.25	0.73	0.43	0.60	13%	27%
BASIC LIFE SCIENCES	National Museum	8	51	6.38	1.00	1.02	1.02	25%	36%
BASIC LIFE SCIENCES	Regional Hospital Kladno	7	60	8.57	1.35	0.80	0.59	0%	12%
BASIC LIFE SCIENCES	Forestry and Game Management Research Institute	7	27	3.86	0.70	0.31	0.45	14%	33%
BASIC LIFE SCIENCES	Thomayer University Hospital	7	39	5.57	0.95	0.44	0.46	43%	11%
BASIC LIFE SCIENCES	Research Institute of Brewing nad Malting	7	13	1.86	0.53	0.35	0.66	43%	38%
BASIC LIFE SCIENCES	Potato Research Institute	7	9	1.29	0.50	0.22	0.44	43%	50%

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Field	Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
BASIC LIFE SCIENCES	T. Bata Regional Hospital	6	61	10.17	1.21	0.86	0.72	33%	32%
BASIC LIFE SCIENCES	Central Institute for Supervising & Testing in Agriculture	6	14	2.33	0.35	0.24	0.67	50%	42%
BASIC LIFE SCIENCES	PROMED CS PRAHA AS	6	66	11.00	0.85	0.66	0.77	0%	13%
BASIC LIFE SCIENCES	ZOO DVUR KRALOVE	6	33	5.50	1.03	0.56	0.54	50%	45%
BASIC LIFE SCIENCES	SEVAC AS	6	35	5.83	0.52	0.22	0.42	0%	27%
BASIC LIFE SCIENCES	Research Institute for Cattle Breeding	6	0	0.00	0.00	0.00	0.28	100%	
BASIC LIFE SCIENCES	State Phytosanitation Administration	5	15	3.00	0.78	0.54	0.70	40%	35%
BASIC LIFE SCIENCES	Czech Geological Survey	5	43	8.60	1.30	0.96	0.74	20%	22%
BASIC LIFE SCIENCES	INST STATE CONTROL VET BIOL & MEDICAMENTS	5	23	4.60	0.73	0.46	0.63	40%	34%
BASIC LIFE SCIENCES	Hop Research Institute	5	23	4.60	0.46	0.25	0.55	0%	59%
BASIC LIFE SCIENCES	AGRITEC, Research, Breeding & Services, Ltd.	5	7	1.40	1.24	0.49	0.39	40%	56%
BASIC LIFE SCIENCES	HERBACOS BOFARMA LTD	5	29	5.80	0.80	0.48	0.60	20%	24%
BASIC LIFE SCIENCES	POLYPEPTIDE LABS LTD	5	45	9.00	0.76	0.49	0.65	0%	26%
BASIC LIFE SCIENCES	Ministry of the Environment	5	10	2.00	0.28	0.08	0.27	20%	29%
BASIC LIFE SCIENCES	Institute of Thermomechanics ASCR	5	2	0.40	0.17	0.07	0.41	60%	78%
BASIC MEDICAL SCIENCES	Academy of Sciences (global)	413	2372	5.74	0.62	0.57	0.93	24%	39%
BASIC MEDICAL SCIENCES	Charles University in Prague	345	1643	4.76	0.69	0.51	0.75	28%	40%
BASIC MEDICAL SCIENCES	Institute of Organic Chemistry and Biochemistry ASCR	120	723	6.03	0.59	0.64	1.10	28%	40%
BASIC MEDICAL SCIENCES	Institute of Macromolecular Chemistry ASCR	85	494	5.81	0.48	0.48	1.00	20%	37%
BASIC MEDICAL SCIENCES	Palacky University Olomouc	70	632	9.03	1.35	1.15	0.85	30%	28%
BASIC MEDICAL SCIENCES	Masaryk University	48	286	5.96	0.86	0.60	0.70	19%	37%
BASIC MEDICAL SCIENCES	Institute of Microbiology ASCR	46	322	7.00	0.93	0.65	0.70	17%	37%
BASIC MEDICAL SCIENCES	University of Defense	42	128	3.05	0.98	0.51	0.51	29%	79%

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BASIC MEDICAL SCIENCES	Institute of Chemical Technology Prague	42	417	9.93	0.72	0.93	1.28	10%	43%
BASIC MEDICAL SCIENCES	Czech Technical University in Prague	40	218	5.45	0.95	0.69	0.73	30%	23%
BASIC MEDICAL SCIENCES	University of Veterinary and Pharmaceutical Sciences Brno	35	88	2.51	0.77	0.29	0.38	46%	32%
BASIC MEDICAL SCIENCES	Zentiva	33	205	6.21	1.20	0.77	0.64	27%	27%
BASIC MEDICAL SCIENCES	Institute for Clinical and Experimental Medicine	31	172	5.55	1.13	0.57	0.50	35%	19%
BASIC MEDICAL SCIENCES	National Institute of Public Health and regional hygienic stations	31	199	6.42	1.19	0.78	0.66	23%	33%
BASIC MEDICAL SCIENCES	Institute of Computer Science ASCR	28	101	3.61	0.83	0.58	0.70	29%	31%
BASIC MEDICAL SCIENCES	Institute of Physiology ASCR	27	131	4.85	0.43	0.47	1.10	37%	53%
BASIC MEDICAL SCIENCES	Institute of Experimental Botany ASCR	25	198	7.92	1.14	1.02	0.90	32%	39%
BASIC MEDICAL SCIENCES	University Hospital Olomouc	23	224	9.74	1.47	1.39	0.95	35%	18%
BASIC MEDICAL SCIENCES	Institute of Biophysics ASCR	21	113	5.38	0.71	0.74	1.04	19%	41%
BASIC MEDICAL SCIENCES	J. Heyrovsky Institute of Physical Chemistry ASCR	16	90	5.63	1.09	0.48	0.44	13%	51%
BASIC MEDICAL SCIENCES	Institute of Experimental Medicine ASCR	16	77	4.81	0.75	0.72	0.96	38%	41%
BASIC MEDICAL SCIENCES	Institute of Molecular Genetics ASCR	14	67	4.79	0.45	0.56	1.26	14%	34%
BASIC MEDICAL SCIENCES	University of Pardubice	14	42	3.00	1.09	0.72	0.66	71%	32%
BASIC MEDICAL SCIENCES	Institute of Theoretical and Applied Mechanics ASCR	13	39	3.00	0.19	0.22	1.13	15%	33%
BASIC MEDICAL SCIENCES	ASCR unresolved	13	65	5.00	0.92	0.43	0.46	15%	35%
BASIC MEDICAL SCIENCES	General University Hospital Prague	13	89	6.85	0.91	0.63	0.70	8%	11%
BASIC MEDICAL SCIENCES	Brno University of Technology	12	59	4.92	0.67	0.54	0.82	25%	13%
BASIC MEDICAL SCIENCES	University Hospital Hradec Kralove	11	36	3.27	0.66	0.54	0.82	45%	27%
BASIC MEDICAL SCIENCES	University of South Bohemia in Ceske Budejovice	11	32	2.91	0.89	0.46	0.52	64%	22%
BASIC MEDICAL SCIENCES	Czech University of Life Sciences Prague	11	110	10.00	1.72	1.18	0.69	18%	11%
BASIC MEDICAL SCIENCES	Mendel University in Brno	11	55	5.00	0.83	0.74	0.88	0%	67%



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BASIC MEDICAL SCIENCES	Nuclear Physics Institute ASCR	10	40	4.00	0.29	0.30	1.03	40%	63%
BASIC MEDICAL SCIENCES	St. Anne's University Hospital Brno	9	31	3.44	0.50	0.32	0.65	33%	47%
BASIC MEDICAL SCIENCES	University Hospital in Plzen	9	54	6.00	0.80	0.44	0.55	0%	16%
BASIC MEDICAL SCIENCES	VACORD BIOENGN RES CO LTD	9	26	2.89	0.41	0.23	0.57	44%	37%
BASIC MEDICAL SCIENCES	Teva Czech Industries	9	24	2.67	0.65	0.28	0.43	56%	51%
BASIC MEDICAL SCIENCES	University Hospital Motol	8	9	1.13	0.37	0.18	0.49	25%	40%
BASIC MEDICAL SCIENCES	Institute of Rheumatology	8	73	9.13	0.56	0.69	1.23	0%	10%
BASIC MEDICAL SCIENCES	Institute of Hematology and Blood Transfusion	8	32	4.00	0.58	0.52	0.89	38%	43%
BASIC MEDICAL SCIENCES	Institute of Physics ASCR	8	9	1.13	0.32	0.16	0.50	50%	69%
BASIC MEDICAL SCIENCES	Jan Evangelista Purkyně University in Ústí nad Labem	7	7	1.00	1.80	0.63	0.35	57%	0%
BASIC MEDICAL SCIENCES	Biology Centre ASCR	7	22	3.14	0.62	0.52	0.83	43%	46%
BASIC MEDICAL SCIENCES	Veterinary Research Institute	6	48	8.00	0.97	0.93	0.96	17%	32%
BASIC MEDICAL SCIENCES	VSB-Technical University of Ostrava	5	44	8.80	0.96	1.03	1.07	40%	6%
BASIC MEDICAL SCIENCES	Institute of Scientific Instruments ASCR	5	27	5.40	0.75	0.54	0.71	20%	13%
BASIC MEDICAL SCIENCES	Crop Research Institute	5	27	5.40	2.53	1.35	0.53	20%	43%
BASIC MEDICAL SCIENCES	Institute of Information Theory and Automation ASCR	5	16	3.20	0.64	0.35	0.55	20%	6%
BASIC MEDICAL SCIENCES	Institute of Inorganic Chemistry ASCR	5	23	4.60	1.00	0.78	0.78	20%	38%
BIOLOGICAL SCIENCES	Academy of Sciences (global)	4141	26175	6.32	0.87	0.66	0.75	25%	32%
BIOLOGICAL SCIENCES	Charles University in Prague	1410	6238	4.42	0.88	0.52	0.60	35%	34%
BIOLOGICAL SCIENCES	Biology Centre ASCR	1190	7985	6.71	0.98	0.80	0.82	27%	31%
BIOLOGICAL SCIENCES	University of South Bohemia in České Budějovice	1064	5771	5.42	0.88	0.79	0.90	32%	31%
BIOLOGICAL SCIENCES	Masaryk University	719	3203	4.45	0.99	0.59	0.60	36%	34%
BIOLOGICAL SCIENCES	Institute of Botany ASCR	688	3411	4.96	0.86	0.66	0.77	26%	33%
BIOLOGICAL SCIENCES	Palacký University Olomouc	506	2712	5.36	0.98	0.68	0.69	35%	33%

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Field	Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
BIOLOGICAL SCIENCES	Institute of Experimental Botany ASCR	473	4539	9.60	0.96	0.87	0.90	17%	27%
BIOLOGICAL SCIENCES	Institute of Vertebrate Biology ASCR	363	1660	4.57	1.03	0.79	0.76	28%	38%
BIOLOGICAL SCIENCES	Institute of Microbiology ASCR	341	2465	7.23	0.71	0.59	0.84	19%	27%
BIOLOGICAL SCIENCES	Crop Research Institute	323	892	2.76	0.79	0.49	0.62	41%	39%
BIOLOGICAL SCIENCES	Institute of Systems Biology and Ecology ASCR	270	1243	4.60	0.94	0.50	0.53	27%	35%
BIOLOGICAL SCIENCES	Mendel University in Brno	231	589	2.55	0.82	0.43	0.52	45%	41%
BIOLOGICAL SCIENCES	Institute of Physiology ASCR	222	1281	5.77	0.61	0.43	0.71	25%	37%
BIOLOGICAL SCIENCES	Czech University of Life Sciences Prague	213	486	2.28	0.97	0.54	0.56	49%	37%
BIOLOGICAL SCIENCES	Institute of Animal Physiology and Genetics ASCR	209	1325	6.34	1.02	0.69	0.68	22%	34%
BIOLOGICAL SCIENCES	National Museum	173	304	1.76	0.80	0.50	0.62	60%	37%
BIOLOGICAL SCIENCES	Institute of Organic Chemistry and Biochemistry ASCR	171	822	4.81	0.72	0.46	0.64	27%	38%
BIOLOGICAL SCIENCES	Institute of Biophysics ASCR	156	1511	9.69	0.68	0.80	1.17	12%	38%
BIOLOGICAL SCIENCES	Institute of Molecular Genetics ASCR	155	705	4.55	0.74	0.25	0.33	35%	36%
BIOLOGICAL SCIENCES	Institute of Animal Science	121	608	5.02	0.65	0.54	0.83	26%	30%
BIOLOGICAL SCIENCES	University of Veterinary and Pharmaceutical Sciences Brno	115	190	1.65	0.62	0.37	0.59	49%	46%
BIOLOGICAL SCIENCES	National Institute of Public Health and regional hygienic stations	64	211	3.30	0.56	0.29	0.51	44%	36%
BIOLOGICAL SCIENCES	Institute of Chemical Technology Prague	57	277	4.86	0.85	0.54	0.64	25%	25%
BIOLOGICAL SCIENCES	Moravian Museum	56	72	1.29	0.68	0.29	0.42	55%	36%
BIOLOGICAL SCIENCES	Agency for Nature Conservation and Landscape Protection of the Czech Republic	53	131	2.47	1.10	0.42	0.38	34%	45%
BIOLOGICAL SCIENCES	Institute of Hematology and Blood Transfusion	50	178	3.56	0.69	0.22	0.32	34%	44%
BIOLOGICAL SCIENCES	VSB-Technical University of Ostrava	44	111	2.52	0.73	0.33	0.45	36%	51%
BIOLOGICAL SCIENCES	Institute of Experimental Medicine ASCR	43	191	4.44	0.74	0.35	0.47	28%	35%

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Field	Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
BIOLOGICAL SCIENCES	Institute of Geology ASCR	38	53	1.39	0.45	0.30	0.67	58%	63%
BIOLOGICAL SCIENCES	Forestry and Game Management Research Institute	35	147	4.20	1.05	0.58	0.56	31%	19%
BIOLOGICAL SCIENCES	Institute for Clinical and Experimental Medicine	34	78	2.29	0.72	0.20	0.28	41%	50%
BIOLOGICAL SCIENCES	Agricultural Research Institute Kromeriz	34	92	2.71	0.82	0.35	0.43	44%	49%
BIOLOGICAL SCIENCES	University of Defense	33	63	1.91	0.69	0.12	0.17	61%	45%
BIOLOGICAL SCIENCES	University of Ostrava	32	101	3.16	0.61	0.39	0.64	44%	50%
BIOLOGICAL SCIENCES	Czech Technical University in Prague	29	47	1.62	0.43	0.24	0.56	55%	38%
BIOLOGICAL SCIENCES	T.G. Masaryk Water Research Institute	28	116	4.14	1.42	0.84	0.59	39%	31%
BIOLOGICAL SCIENCES	Czech Geological Survey	28	97	3.46	0.53	0.46	0.87	18%	49%
BIOLOGICAL SCIENCES	Research Institute Silva Taroucy	28	138	4.93	1.28	0.88	0.69	50%	21%
BIOLOGICAL SCIENCES	Institute of Archaeology ASCR	25	71	2.84	0.77	0.57	0.74	24%	30%
BIOLOGICAL SCIENCES	Silesian Museum	25	41	1.64	0.69	0.47	0.68	48%	35%
BIOLOGICAL SCIENCES	ASCR unresolved	23	140	6.09	0.91	0.66	0.73	26%	27%
BIOLOGICAL SCIENCES	Veterinary Research Institute	21	163	7.76	1.28	0.84	0.66	19%	38%
BIOLOGICAL SCIENCES	Institute of Photonics and Electronics ASCR	20	52	2.60	1.37	0.36	0.26	40%	52%
BIOLOGICAL SCIENCES	General University Hospital Prague	20	22	1.10	0.36	0.17	0.46	55%	39%
BIOLOGICAL SCIENCES	Brno University of Technology	18	26	1.44	0.68	0.19	0.27	67%	45%
BIOLOGICAL SCIENCES	Teva Czech Industries	18	162	9.00	1.01	0.54	0.53	6%	29%
BIOLOGICAL SCIENCES	AGRITEC, Research, Breeding & Services, Ltd.	18	63	3.50	0.92	0.41	0.45	33%	24%
BIOLOGICAL SCIENCES	University of West Bohemia in Plzen	17	86	5.06	1.16	1.12	0.97	47%	18%
BIOLOGICAL SCIENCES	Nuclear Physics Institute ASCR	16	118	7.38	0.60	0.75	1.25	0%	37%
BIOLOGICAL SCIENCES	Central Institute for Supervising & Testing in Agriculture	16	31	1.94	0.57	0.21	0.37	50%	31%
BIOLOGICAL SCIENCES	University Hospital Brno	16	22	1.38	0.18	0.09	0.49	38%	39%
BIOLOGICAL SCIENCES	Prague Psychiatric Centre	14	80	5.71	1.40	0.41	0.29	43%	21%

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BIOLOGICAL SCIENCES	Research and Breeding Institute of Pomology Holovousy	12	3	0.25	0.72	0.45	0.63	83%	57%
BIOLOGICAL SCIENCES	University Hospital Olomouc	11	49	4.45	1.32	0.30	0.23	36%	18%
BIOLOGICAL SCIENCES	Masaryk Memorial Cancer Institute	11	45	4.09	0.37	0.21	0.57	36%	39%
BIOLOGICAL SCIENCES	W BOHEMIAN MUSEUM PLZEN	11	7	0.64	0.25	0.15	0.59	64%	80%
BIOLOGICAL SCIENCES	University Hospital Hradec Kralove	10	34	3.40	1.16	0.38	0.33	20%	39%
BIOLOGICAL SCIENCES	COMENIUS MUSEUM	10	26	2.60	0.97	0.33	0.34	30%	38%
BIOLOGICAL SCIENCES	Jan Evangelista Purkyně University in Ústí nad Labem	9	43	4.78	1.11	0.65	0.59	33%	25%
BIOLOGICAL SCIENCES	Hop Research Institute	9	64	7.11	1.29	0.70	0.54	0%	29%
BIOLOGICAL SCIENCES	Institute of Endocrinology	9	19	2.11	0.60	0.12	0.21	22%	58%
BIOLOGICAL SCIENCES	Institute of Hydrodynamics ASCR	8	26	3.25	4.49	1.10	0.25	38%	26%
BIOLOGICAL SCIENCES	Institute of Information Theory and Automation ASCR	8	18	2.25	1.13	0.21	0.19	25%	50%
BIOLOGICAL SCIENCES	Potato Research Institute	8	11	1.38	1.22	0.56	0.46	50%	8%
BIOLOGICAL SCIENCES	Zentiva	8	61	7.63	0.68	0.37	0.54	25%	25%
BIOLOGICAL SCIENCES	ZOO PRAGUE	7	19	2.71	0.89	0.61	0.68	43%	10%
BIOLOGICAL SCIENCES	State Phytosanitation Administration	7	5	0.71	0.27	0.18	0.68	57%	62%
BIOLOGICAL SCIENCES	Institute for Postgraduate Medical Education	7	45	6.43	1.74	0.76	0.43	43%	10%
BIOLOGICAL SCIENCES	Food Research Institute Prague	7	14	2.00	0.41	0.25	0.62	43%	46%
BIOLOGICAL SCIENCES	CZECH SOC ORNITHOL	7	113	16.14	2.86	5.63	1.96	14%	21%
BIOLOGICAL SCIENCES	Bioveta	7	45	6.43	1.15	1.01	0.87	14%	30%
BIOLOGICAL SCIENCES	National Radiation Protection Institute	7	53	7.57	1.16	0.83	0.72	29%	39%
BIOLOGICAL SCIENCES	S BOHEMIAN MUSEUM CESKE BUDEJOVICE	6	5	0.83	0.47	0.19	0.41	67%	44%
BIOLOGICAL SCIENCES	FORESTRY COMMISS	6	58	9.67	0.82	1.06	1.29	33%	33%
BIOLOGICAL SCIENCES	University of Hradec Kralove	6	6	1.00	0.41	0.09	0.22	50%	57%
BIOLOGICAL SCIENCES	SUMAVA NATL PK ADM	6	9	1.50	0.80	0.27	0.34	50%	25%

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BIOLOGICAL SCIENCES	Institute of Physics ASCR	6	4	0.67	0.09	0.09	1.00	67%	20%
BIOLOGICAL SCIENCES	J. Heyrovsky Institute of Physical Chemistry ASCR	6	25	4.17	0.41	0.38	0.93	0%	42%
BIOLOGICAL SCIENCES	Institute of Computer Science ASCR	5	8	1.60	0.81	0.39	0.49	40%	11%
BIOLOGICAL SCIENCES	OSEVA	5	7	1.40	0.33	0.24	0.72	40%	46%
BIOLOGICAL SCIENCES	University Hospital Motol	5	4	0.80	0.71	0.07	0.10	60%	0%
BIOLOGICAL SCIENCES	Faculty Hospital Na Bulovce	5	44	8.80	4.08	0.80	0.20	20%	29%
BIOLOGICAL SCIENCES	ENKI	5	9	1.80	0.83	0.36	0.43	60%	31%
BIOLOGICAL SCIENCES	ZOO DVUR KRALOVE	5	21	4.20	1.18	0.81	0.69	60%	43%
BIOLOGICAL SCIENCES	Institute of Macromolecular Chemistry ASCR	5	1	0.20	0.11	0.01	0.11	80%	95%
BIOLOGICAL SCIENCES	Na Homolce Hospital	5	202	40.40	2.85	3.43	1.21	0%	12%
BIOMEDICAL SCIENCES	Charles University in Prague	3169	19605	6.19	0.87	0.52	0.60	33%	26%
BIOMEDICAL SCIENCES	Academy of Sciences (global)	3107	27309	8.79	0.76	0.61	0.80	21%	30%
BIOMEDICAL SCIENCES	Institute of Physiology ASCR	999	7566	7.57	0.59	0.47	0.79	22%	32%
BIOMEDICAL SCIENCES	Masaryk University	682	3292	4.83	0.88	0.43	0.49	33%	27%
BIOMEDICAL SCIENCES	Institute of Experimental Medicine ASCR	492	4905	9.97	0.94	0.72	0.77	19%	30%
BIOMEDICAL SCIENCES	Palacky University Olomouc	400	1865	4.66	1.07	0.56	0.53	45%	23%
BIOMEDICAL SCIENCES	Institute for Clinical and Experimental Medicine	386	2528	6.55	0.94	0.53	0.57	24%	21%
BIOMEDICAL SCIENCES	Institute of Molecular Genetics ASCR	347	4673	13.47	0.80	0.74	0.93	18%	24%
BIOMEDICAL SCIENCES	National Institute of Public Health and regional hygienic stations	332	3055	9.20	0.98	0.72	0.73	17%	27%
BIOMEDICAL SCIENCES	Institute of Microbiology ASCR	320	2950	9.22	0.76	0.59	0.77	15%	34%
BIOMEDICAL SCIENCES	University of Defense	251	1266	5.04	0.95	0.54	0.57	30%	46%
BIOMEDICAL SCIENCES	Institute of Organic Chemistry and Biochemistry ASCR	225	1353	6.01	0.61	0.49	0.80	25%	42%
BIOMEDICAL SCIENCES	Biology Centre ASCR	209	1551	7.42	0.86	0.63	0.73	22%	30%

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BIOMEDICAL SCIENCES	General University Hospital Prague	198	864	4.36	1.11	0.39	0.35	48%	21%
BIOMEDICAL SCIENCES	University Hospital Olomouc	190	434	2.28	0.94	0.27	0.28	57%	18%
BIOMEDICAL SCIENCES	University Hospital Hradec Kralove	189	545	2.88	0.77	0.31	0.40	43%	28%
BIOMEDICAL SCIENCES	University Hospital Motol	188	967	5.14	0.95	0.46	0.49	39%	23%
BIOMEDICAL SCIENCES	Institute of Biophysics ASCR	184	1116	6.07	0.75	0.55	0.73	24%	38%
BIOMEDICAL SCIENCES	University of South Bohemia in Ceske Budejovice	183	895	4.89	0.97	0.65	0.67	37%	24%
BIOMEDICAL SCIENCES	University Hospital Brno	179	585	3.27	0.87	0.30	0.34	45%	19%
BIOMEDICAL SCIENCES	University of Veterinary and Pharmaceutical Sciences Brno	144	581	4.03	1.02	0.53	0.52	42%	23%
BIOMEDICAL SCIENCES	Czech Technical University in Prague	126	334	2.65	0.82	0.44	0.54	48%	31%
BIOMEDICAL SCIENCES	Institute of Endocrinology	124	637	5.14	0.81	0.34	0.42	23%	27%
BIOMEDICAL SCIENCES	Veterinary Research Institute	122	970	7.95	1.04	0.82	0.80	20%	34%
BIOMEDICAL SCIENCES	Institute of Hematology and Blood Transfusion	118	884	7.49	0.56	0.45	0.81	25%	31%
BIOMEDICAL SCIENCES	Na Homolce Hospital	117	963	8.23	1.35	0.70	0.52	44%	16%
BIOMEDICAL SCIENCES	Institute of Chemical Technology Prague	112	603	5.38	0.83	0.60	0.72	23%	30%
BIOMEDICAL SCIENCES	St. Anne's University Hospital Brno	102	227	2.23	0.68	0.16	0.24	56%	23%
BIOMEDICAL SCIENCES	Nuclear Physics Institute ASCR	94	269	2.86	0.59	0.38	0.63	39%	39%
BIOMEDICAL SCIENCES	Prague Psychiatric Centre	90	432	4.80	0.82	0.42	0.52	33%	22%
BIOMEDICAL SCIENCES	Institute of Macromolecular Chemistry ASCR	89	1547	17.38	1.15	1.44	1.25	9%	31%
BIOMEDICAL SCIENCES	University Hospital Ostrava	78	228	2.92	1.29	0.27	0.21	62%	16%
BIOMEDICAL SCIENCES	University Hospital in Plzen	77	212	2.75	0.83	0.31	0.37	43%	18%
BIOMEDICAL SCIENCES	Institute for Postgraduate Medical Education	74	356	4.81	1.13	0.33	0.29	45%	26%
BIOMEDICAL SCIENCES	Institute of Experimental Botany ASCR	73	480	6.58	0.66	0.43	0.65	16%	31%
BIOMEDICAL SCIENCES	Thomayer University Hospital	68	206	3.03	1.06	0.28	0.26	60%	14%
BIOMEDICAL SCIENCES	Institute of Animal Physiology and Genetics ASCR	65	274	4.22	0.63	0.35	0.55	25%	40%

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BIOMEDICAL SCIENCES	ASCR unresolved	60	785	13.08	1.21	0.99	0.82	28%	16%
BIOMEDICAL SCIENCES	National Radiation Protection Institute	58	108	1.86	0.90	0.42	0.47	57%	42%
BIOMEDICAL SCIENCES	Central Military Hospital Prague	58	123	2.12	1.18	0.20	0.17	57%	15%
BIOMEDICAL SCIENCES	University Hospital Kralovske Vinohrady	56	295	5.27	1.29	0.48	0.37	54%	29%
BIOMEDICAL SCIENCES	Faculty Hospital Na Bulovce	54	246	4.56	1.01	0.37	0.37	50%	19%
BIOMEDICAL SCIENCES	Institute of Computer Science ASCR	45	214	4.76	1.50	0.62	0.41	58%	23%
BIOMEDICAL SCIENCES	University of Pardubice	45	160	3.56	0.92	0.48	0.52	33%	33%
BIOMEDICAL SCIENCES	Mendel University in Brno	44	197	4.48	0.96	0.68	0.71	25%	39%
BIOMEDICAL SCIENCES	Masaryk Memorial Cancer Institute	44	267	6.07	0.60	0.49	0.80	18%	31%
BIOMEDICAL SCIENCES	Brno University of Technology	40	117	2.93	0.97	0.35	0.36	45%	32%
BIOMEDICAL SCIENCES	Zentiva	37	164	4.43	0.59	0.31	0.53	19%	29%
BIOMEDICAL SCIENCES	Masaryk Hospital in Ústí nad Labem,	36	55	1.53	1.11	0.11	0.09	61%	29%
BIOMEDICAL SCIENCES	Czech University of Life Sciences Prague	34	146	4.29	1.28	0.71	0.56	44%	24%
BIOMEDICAL SCIENCES	J. Heyrovsky Institute of Physical Chemistry ASCR	34	176	5.18	0.94	0.55	0.58	21%	48%
BIOMEDICAL SCIENCES	Institute for the Care of Mother and Child	26	273	10.50	1.22	0.69	0.57	12%	16%
BIOMEDICAL SCIENCES	Institute of Botany ASCR	26	100	3.85	0.85	0.68	0.80	15%	26%
BIOMEDICAL SCIENCES	Czech Metrology Institute	25	58	2.32	1.10	0.48	0.44	52%	33%
BIOMEDICAL SCIENCES	Pardubice Regional Hospital	24	85	3.54	2.25	0.46	0.20	58%	7%
BIOMEDICAL SCIENCES	Teva Czech Industries	24	148	6.17	0.82	0.44	0.53	25%	34%
BIOMEDICAL SCIENCES	Institute of Vertebrate Biology ASCR	23	695	30.22	2.69	2.15	0.80	17%	10%
BIOMEDICAL SCIENCES	Hospital České Budějovice	23	64	2.78	0.98	0.37	0.38	52%	16%
BIOMEDICAL SCIENCES	Crop Research Institute	22	103	4.68	1.74	0.56	0.32	27%	33%
BIOMEDICAL SCIENCES	Institute of Scientific Instruments ASCR	22	255	11.59	1.23	0.99	0.81	27%	32%
BIOMEDICAL SCIENCES	Jan Evangelista Purkyně University in Ústí nad Labem	21	13	0.62	0.58	0.25	0.44	67%	28%
BIOMEDICAL SCIENCES	Hospital Šternberk	21	92	4.38	2.06	1.31	0.64	52%	19%

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BIOMEDICAL SCIENCES	Regional Hospital Liberec	18	6	0.33	0.46	0.05	0.10	89%	40%
BIOMEDICAL SCIENCES	Institute of Rheumatology	18	132	7.33	1.17	0.63	0.53	22%	19%
BIOMEDICAL SCIENCES	Institute of Physics ASCR	18	27	1.50	0.32	0.22	0.68	39%	64%
BIOMEDICAL SCIENCES	Institute of Systems Biology and Ecology ASCR	16	93	5.81	0.83	0.49	0.58	19%	47%
BIOMEDICAL SCIENCES	Frantisku Hospital	16	2	0.13	0.44	0.01	0.02	88%	50%
BIOMEDICAL SCIENCES	University of Ostrava	15	124	8.27	1.21	0.72	0.59	20%	23%
BIOMEDICAL SCIENCES	Institute of Inorganic Chemistry ASCR	14	60	4.29	0.64	0.40	0.63	29%	26%
BIOMEDICAL SCIENCES	Institute of Analytical Chemistry ASCR	13	55	4.23	0.71	0.33	0.46	31%	31%
BIOMEDICAL SCIENCES	Institute of Animal Science	12	95	7.92	1.07	0.56	0.52	8%	25%
BIOMEDICAL SCIENCES	Technical University of Liberec	11	19	1.73	0.47	0.30	0.63	36%	46%
BIOMEDICAL SCIENCES	Vítkovice Hospital of the Blessed Maria Antonia	11	2	0.18	0.43	0.02	0.04	91%	60%
BIOMEDICAL SCIENCES	Military Geography and Hydrometeorology Office Dobruska	11	18	1.64	0.55	0.20	0.37	55%	56%
BIOMEDICAL SCIENCES	State Institute for Drug Control	10	83	8.30	0.94	0.49	0.52	10%	14%
BIOMEDICAL SCIENCES	T. Bata Regional Hospital	10	12	1.20	0.76	0.10	0.14	60%	25%
BIOMEDICAL SCIENCES	Regional Hospital Příbram	10	39	3.90	0.69	0.32	0.46	20%	11%
BIOMEDICAL SCIENCES	KLINLAB LTD	10	183	18.30	1.32	1.13	0.86	10%	31%
BIOMEDICAL SCIENCES	State Office for Nuclear Safety	10	23	2.30	0.77	0.38	0.50	40%	39%
BIOMEDICAL SCIENCES	Centre of Cardiovascular and Transplantation Surgery	10	84	8.40	0.85	0.46	0.54	10%	12%
BIOMEDICAL SCIENCES	VSB-Technical University of Ostrava	9	38	4.22	1.71	0.60	0.35	67%	16%
BIOMEDICAL SCIENCES	University of West Bohemia in Plzen	9	10	1.11	0.67	0.27	0.41	78%	33%
BIOMEDICAL SCIENCES	PLIVA LACHEMA AS	9	37	4.11	0.89	0.61	0.68	22%	46%
BIOMEDICAL SCIENCES	Institute of Thermomechanics ASCR	9	12	1.33	0.38	0.20	0.53	33%	45%
BIOMEDICAL SCIENCES	SEVAC AS	9	37	4.11	0.41	0.14	0.35	0%	47%
BIOMEDICAL SCIENCES	Institute of Geology ASCR	8	20	2.50	0.74	0.67	0.91	38%	35%



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BIOMEDICAL SCIENCES	Potato Research Institute	8	25	3.13	0.82	0.28	0.34	38%	34%
BIOMEDICAL SCIENCES	Czech Hydrometeorological Institute	8	106	13.25	1.87	1.69	0.90	13%	23%
BIOMEDICAL SCIENCES	Institute of Information Theory and Automation ASCR	7	26	3.71	0.25	0.30	1.19	0%	28%
BIOMEDICAL SCIENCES	State Veterinary Administration of the Czech Republic	7	53	7.57	1.06	0.82	0.77	29%	21%
BIOMEDICAL SCIENCES	University of Hradec Kralove	7	54	7.71	2.15	1.10	0.51	43%	13%
BIOMEDICAL SCIENCES	CZECH NEROL ASSOC JEP	7	4	0.57	2.25	0.04	0.02	71%	20%
BIOMEDICAL SCIENCES	Institute of Psychology ASCR	7	19	2.71	0.87	0.21	0.24	14%	14%
BIOMEDICAL SCIENCES	SEKK SPOL SRO	6	6	1.00	0.33	0.20	0.61	67%	33%
BIOMEDICAL SCIENCES	NEUROSCI TECHNOL RES SRO	6	90	15.00	1.01	0.58	0.57	0%	44%
BIOMEDICAL SCIENCES	ST ELIZABETH HOSP	6	18	3.00	1.27	0.13	0.10	50%	14%
BIOMEDICAL SCIENCES	NEUROL ODDELENI	6	2	0.33	1.54	0.02	0.01	67%	82%
BIOMEDICAL SCIENCES	Nuclear Research Institute Rez	6	0	0.00	0.00	0.00	0.13	100%	
BIOMEDICAL SCIENCES	DAKOCYTOMAT AG	6	12	2.00	0.38	0.23	0.60	17%	48%
BIOMEDICAL SCIENCES	PROMED CS PRAHA AS	6	30	5.00	0.86	0.41	0.48	17%	12%
BIOMEDICAL SCIENCES	Institute of Biotechnology ASCR	6	18	3.00	3.89	5.11	1.31	50%	18%
BIOMEDICAL SCIENCES	VYSOKA SKOLA ZDRAVOTN	5	0	0.00	0.00	0.00	0.15	100%	
BIOMEDICAL SCIENCES	BIOPHARM Research Institute of Biopharmacy and Veterinary Drugs	5	180	36.00	1.65	1.75	1.06	0%	10%
BIOMEDICAL SCIENCES	Research Institute of Organic Syntheses	5	1	0.20	0.13	0.04	0.30	80%	75%
BIOMEDICAL SCIENCES	RADON VOS CORP	5	7	1.40	0.91	0.28	0.30	80%	22%
BIOMEDICAL SCIENCES	Research and Breeding Institute of Pomology Holovousy	5	11	2.20	0.46	0.14	0.30	60%	31%
BIOMEDICAL SCIENCES	Czech Geological Survey	5	13	2.60	1.04	0.43	0.41	40%	0%
BIOMEDICAL SCIENCES	Regional Hospital Kladno	5	38	7.60	0.91	0.64	0.71	20%	0%
BIOMEDICAL SCIENCES	Institute of Photonics and Electronics ASCR	5	2	0.40	0.18	0.09	0.46	60%	0%
CHEMISTRY AND CHEMICAL	Academy of Sciences (global)	9787	72554	7.41	0.86	0.73	0.85	27%	35%

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ENGINEERING									
CHEMISTRY AND CHEMICAL ENGINEERING	Charles University in Prague	3587	19562	5.45	0.82	0.53	0.65	31%	39%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Chemical Technology Prague	2782	13437	4.83	0.80	0.39	0.49	35%	34%
CHEMISTRY AND CHEMICAL ENGINEERING	J. Heyrovsky Institute of Physical Chemistry ASCR	2252	25353	11.26	0.99	0.99	1.01	21%	31%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Organic Chemistry and Biochemistry ASCR	1723	13352	7.75	1.03	0.74	0.72	26%	35%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Macromolecular Chemistry ASCR	1690	12559	7.43	0.82	0.76	0.92	24%	32%
CHEMISTRY AND CHEMICAL ENGINEERING	University of Pardubice	1416	7358	5.20	0.88	0.56	0.64	33%	36%
CHEMISTRY AND CHEMICAL ENGINEERING	Masaryk University	1282	8003	6.24	0.87	0.58	0.66	27%	36%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Chemical Process Fundamentals ASCR	1009	5190	5.14	0.67	0.55	0.82	31%	39%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Physics ASCR	900	3556	3.95	0.64	0.50	0.78	36%	53%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Inorganic Chemistry ASCR	652	2946	4.52	0.56	0.47	0.83	31%	47%
CHEMISTRY AND CHEMICAL ENGINEERING	Palacky University Olomouc	603	2868	4.76	0.94	0.50	0.53	35%	30%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Analytical Chemistry ASCR	477	4511	9.46	0.72	0.81	1.11	17%	25%
CHEMISTRY AND CHEMICAL ENGINEERING	Brno University of Technology	462	1701	3.68	0.66	0.39	0.59	40%	36%
CHEMISTRY AND CHEMICAL ENGINEERING	Czech Technical University in Prague	455	1519	3.34	0.82	0.50	0.60	47%	46%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Microbiology ASCR	403	2154	5.34	0.64	0.44	0.69	25%	40%
CHEMISTRY AND CHEMICAL ENGINEERING	Nuclear Physics Institute ASCR	357	808	2.26	0.63	0.29	0.46	48%	51%

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CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Biophysics ASCR	327	5775	17.66	1.57	1.70	1.08	21%	34%
CHEMISTRY AND CHEMICAL ENGINEERING	Tomas Bata University in Zlin	306	828	2.71	0.70	0.51	0.72	49%	40%
CHEMISTRY AND CHEMICAL ENGINEERING	Mendel University in Brno	249	1144	4.59	1.02	0.61	0.60	33%	53%
CHEMISTRY AND CHEMICAL ENGINEERING	University of West Bohemia in Plzen	190	138	0.73	0.40	0.15	0.37	78%	69%
CHEMISTRY AND CHEMICAL ENGINEERING	University of South Bohemia in Ceske Budejovice	173	1080	6.24	1.07	0.75	0.70	46%	23%
CHEMISTRY AND CHEMICAL ENGINEERING	Research Institute of Organic Syntheses	166	609	3.67	0.76	0.41	0.53	39%	48%
CHEMISTRY AND CHEMICAL ENGINEERING	University of Defense	154	578	3.75	0.96	0.34	0.36	44%	52%
CHEMISTRY AND CHEMICAL ENGINEERING	Zentiva	152	486	3.20	0.75	0.26	0.35	34%	35%
CHEMISTRY AND CHEMICAL ENGINEERING	VSB-Technical University of Ostrava	150	453	3.02	0.82	0.36	0.44	45%	29%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Physiology ASCR	141	951	6.74	0.69	0.47	0.69	30%	25%
CHEMISTRY AND CHEMICAL ENGINEERING	University of Veterinary and Pharmaceutical Sciences Brno	134	178	1.33	0.77	0.20	0.27	56%	64%
CHEMISTRY AND CHEMICAL ENGINEERING	Jan Evangelista Purkyně University in Ústí nad Labem	123	408	3.32	0.61	0.43	0.71	44%	27%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Experimental Botany ASCR	117	541	4.62	0.84	0.50	0.59	38%	41%
CHEMISTRY AND CHEMICAL ENGINEERING	National Institute of Public Health and regional hygienic stations	109	452	4.15	0.87	0.36	0.41	27%	33%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Physics of Materials ASCR	109	349	3.20	0.72	0.48	0.67	36%	34%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Photonics and Electronics ASCR	103	1474	14.31	1.61	1.66	1.03	31%	18%
CHEMISTRY AND CHEMICAL	Technical University of Liberec	101	240	2.38	0.72	0.47	0.65	48%	45%

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ENGINEERING									
CHEMISTRY AND CHEMICAL ENGINEERING	Czech University of Life Sciences Prague	101	498	4.93	1.24	0.45	0.36	38%	33%
CHEMISTRY AND CHEMICAL ENGINEERING	Teva Czech Industries	87	371	4.26	0.57	0.28	0.49	24%	42%
CHEMISTRY AND CHEMICAL ENGINEERING	Biology Centre ASCR	82	263	3.21	0.52	0.32	0.63	35%	45%
CHEMISTRY AND CHEMICAL ENGINEERING	ASCR unresolved	82	636	7.76	0.96	0.69	0.72	28%	35%
CHEMISTRY AND CHEMICAL ENGINEERING	Nuclear Research Institute Rez	74	179	2.42	0.72	0.37	0.51	42%	49%
CHEMISTRY AND CHEMICAL ENGINEERING	Research Institute of Inorganic Chemistry	56	265	4.73	0.62	0.51	0.82	32%	32%
CHEMISTRY AND CHEMICAL ENGINEERING	Veterinary Research Institute	55	462	8.40	0.98	0.87	0.89	20%	30%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Systems Biology and Ecology ASCR	53	501	9.45	1.85	0.92	0.50	42%	15%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Experimental Medicine ASCR	50	255	5.10	0.90	0.46	0.51	34%	33%
CHEMISTRY AND CHEMICAL ENGINEERING	Czech Metrology Institute	49	65	1.33	0.51	0.26	0.51	59%	48%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Rock Structure and Mechanics ASCR	45	120	2.67	0.37	0.24	0.65	42%	26%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Hematology and Blood Transfusion	42	213	5.07	0.56	0.33	0.60	48%	25%
CHEMISTRY AND CHEMICAL ENGINEERING	National Museum	42	41	0.98	0.40	0.40	1.01	48%	93%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Molecular Genetics ASCR	42	98	2.33	0.33	0.21	0.62	43%	48%
CHEMISTRY AND CHEMICAL ENGINEERING	University Hospital Olomouc	40	254	6.35	1.02	0.61	0.59	40%	14%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Scientific Instruments ASCR	38	162	4.26	0.57	0.48	0.85	29%	48%

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CHEMISTRY AND CHEMICAL ENGINEERING	SYNPO AS	38	126	3.32	0.62	0.32	0.52	42%	19%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Thermomechanics ASCR	36	80	2.22	0.46	0.51	1.11	69%	27%
CHEMISTRY AND CHEMICAL ENGINEERING	University Hospital Hradec Kralove	35	254	7.26	1.13	0.95	0.84	46%	14%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Endocrinology	32	337	10.53	1.10	0.67	0.61	25%	33%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Plasma Physics ASCR	31	157	5.06	0.83	0.56	0.68	35%	40%
CHEMISTRY AND CHEMICAL ENGINEERING	Polymer Institute Brno	30	112	3.73	0.63	0.51	0.82	30%	36%
CHEMISTRY AND CHEMICAL ENGINEERING	Food Research Institute Prague	29	106	3.66	0.66	0.70	1.05	31%	28%
CHEMISTRY AND CHEMICAL ENGINEERING	Central Institute for Supervising & Testing in Agriculture	28	89	3.18	0.84	0.28	0.33	43%	25%
CHEMISTRY AND CHEMICAL ENGINEERING	Military Geography and Hydrometeorology Office Dobruska	28	50	1.79	0.86	0.20	0.24	54%	65%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Hydrodynamics ASCR	27	116	4.30	0.62	0.51	0.82	41%	25%
CHEMISTRY AND CHEMICAL ENGINEERING	Unipetrol Group	22	72	3.27	0.61	0.24	0.40	45%	24%
CHEMISTRY AND CHEMICAL ENGINEERING	Crop Research Institute	21	30	1.43	0.80	0.20	0.25	57%	35%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Animal Physiology and Genetics ASCR	20	57	2.85	0.38	0.27	0.71	35%	48%
CHEMISTRY AND CHEMICAL ENGINEERING	KAUCUK AS	19	167	8.79	1.11	0.74	0.67	0%	35%
CHEMISTRY AND CHEMICAL ENGINEERING	LECO INSTRUMENTE PLZEN SRO	19	272	14.32	1.16	1.69	1.46	11%	16%
CHEMISTRY AND CHEMICAL ENGINEERING	PHARMAKL SRO	19	245	12.89	1.14	1.05	0.92	16%	1%
CHEMISTRY AND CHEMICAL	Czech Geological Survey	18	62	3.44	0.81	0.54	0.67	50%	21%

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Field	Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
ENGINEERING									
CHEMISTRY AND CHEMICAL ENGINEERING	University of Hradec Kralove	18	37	2.06	0.40	0.27	0.67	50%	41%
CHEMISTRY AND CHEMICAL ENGINEERING	National Radiation Protection Institute	17	11	0.65	0.53	0.14	0.26	71%	52%
CHEMISTRY AND CHEMICAL ENGINEERING	University of Ostrava	16	44	2.75	0.75	0.51	0.68	38%	42%
CHEMISTRY AND CHEMICAL ENGINEERING	CRYTUR Ltd	16	195	12.19	2.44	1.70	0.70	13%	46%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute for Clinical and Experimental Medicine	15	47	3.13	0.51	0.38	0.74	27%	16%
CHEMISTRY AND CHEMICAL ENGINEERING	Ministry of the Environment	15	13	0.87	0.35	0.03	0.09	67%	41%
CHEMISTRY AND CHEMICAL ENGINEERING	SKODA AUTO	15	74	4.93	0.70	0.45	0.65	13%	33%
CHEMISTRY AND CHEMICAL ENGINEERING	General University Hospital Prague	14	15	1.07	0.30	0.08	0.28	50%	38%
CHEMISTRY AND CHEMICAL ENGINEERING	Research Institute of Brewing nad Malting	13	34	2.62	1.12	0.80	0.71	46%	36%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Geonics ASCR	13	139	10.69	0.82	0.89	1.08	15%	18%
CHEMISTRY AND CHEMICAL ENGINEERING	State Institute for Drug Control	12	91	7.58	0.96	0.34	0.36	17%	7%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Geology ASCR	12	24	2.00	0.33	0.18	0.53	42%	29%
CHEMISTRY AND CHEMICAL ENGINEERING	FARMAK AS	12	29	2.42	0.76	0.26	0.34	42%	55%
CHEMISTRY AND CHEMICAL ENGINEERING	Academy of Fine Arts in Prague	12	68	5.67	1.37	1.19	0.87	25%	24%
CHEMISTRY AND CHEMICAL ENGINEERING	ORITEST SRO	11	5	0.45	0.42	0.05	0.11	64%	29%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Theoretical and Applied Mechanics ASCR	11	12	1.09	0.39	0.25	0.64	45%	61%

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CHEMISTRY AND CHEMICAL ENGINEERING	T.G. Masaryk Water Research Institute	10	83	8.30	1.36	0.61	0.45	40%	16%
CHEMISTRY AND CHEMICAL ENGINEERING	CPN SPOL SRO	10	32	3.20	0.91	0.83	0.92	20%	20%
CHEMISTRY AND CHEMICAL ENGINEERING	HERBACOS BOFARMA LTD	10	67	6.70	0.84	0.68	0.81	20%	17%
CHEMISTRY AND CHEMICAL ENGINEERING	Silesian University in Opava	10	34	3.40	0.66	0.40	0.61	30%	55%
CHEMISTRY AND CHEMICAL ENGINEERING	CZECH AGR & FOOD INSPECT AUTHOR	9	104	11.56	1.87	0.71	0.38	11%	13%
CHEMISTRY AND CHEMICAL ENGINEERING	State Phytosanitation Administration	8	25	3.13	0.68	0.60	0.89	13%	39%
CHEMISTRY AND CHEMICAL ENGINEERING	Agricultural Research Institute Kromeriz	8	14	1.75	0.95	0.90	0.95	50%	26%
CHEMISTRY AND CHEMICAL ENGINEERING	Hospital Šternberk	8	7	0.88	1.27	0.14	0.11	88%	13%
CHEMISTRY AND CHEMICAL ENGINEERING	University Hospital Brno	8	83	10.38	0.86	0.66	0.76	38%	6%
CHEMISTRY AND CHEMICAL ENGINEERING	SPOLANA AS	7	22	3.14	0.34	0.14	0.41	71%	21%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Computer Science ASCR	7	16	2.29	0.72	0.76	1.06	29%	62%
CHEMISTRY AND CHEMICAL ENGINEERING	Potato Research Institute	7	14	2.00	1.34	0.32	0.24	14%	48%
CHEMISTRY AND CHEMICAL ENGINEERING	Masaryk Memorial Cancer Institute	7	29	4.14	0.69	0.19	0.28	29%	50%
CHEMISTRY AND CHEMICAL ENGINEERING	INST TECHNOL INVEST	7	15	2.14	0.60	0.31	0.52	14%	40%
CHEMISTRY AND CHEMICAL ENGINEERING	SEVA IMUNO PRAGUE	6	142	23.67	1.21	1.88	1.55	0%	20%
CHEMISTRY AND CHEMICAL ENGINEERING	ENERGOVYZKUM SRO	6	0	0.00	0.00	0.00	0.21	100%	100%
CHEMISTRY AND CHEMICAL	University Hospital Ostrava	6	29	4.83	0.78	0.61	0.78	17%	33%

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ENGINEERING									
CHEMISTRY AND CHEMICAL ENGINEERING	PROMED CS PRAHA AS	6	62	10.33	0.86	0.83	0.96	17%	11%
CHEMISTRY AND CHEMICAL ENGINEERING	SEVEROCHEMA COOPERAT	6	2	0.33	0.13	0.02	0.18	67%	80%
CHEMISTRY AND CHEMICAL ENGINEERING	INST STATE CONTROL VET BIOL & MEDICAMENTS	6	7	1.17	0.33	0.15	0.45	50%	80%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Biotechnology ASCR	6	3	0.50	0.45	0.43	0.96	50%	50%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Animal Science	6	14	2.33	0.55	0.11	0.19	33%	36%
CHEMISTRY AND CHEMICAL ENGINEERING	State Office for Nuclear Safety	6	14	2.33	1.83	0.35	0.19	33%	22%
CHEMISTRY AND CHEMICAL ENGINEERING	TESSEK LTD PRAHA	6	45	7.50	0.54	0.56	1.04	17%	34%
CHEMISTRY AND CHEMICAL ENGINEERING	SPOFA DENT CO	5	9	1.80	0.17	0.07	0.43	0%	36%
CHEMISTRY AND CHEMICAL ENGINEERING	GRP PRAHA	5	48	9.60	2.04	1.16	0.57	0%	62%
CHEMISTRY AND CHEMICAL ENGINEERING	ANALYTIKA LTD	5	78	15.60	1.15	1.27	1.10	0%	8%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Rheumatology	5	6	1.20	0.20	0.08	0.41	60%	63%
CHEMISTRY AND CHEMICAL ENGINEERING	TECH UNIV	5	0	0.00	0.00	0.00	0.02	100%	100%
CHEMISTRY AND CHEMICAL ENGINEERING	University Hospital Motol	5	21	4.20	0.35	0.35	1.01	20%	64%
CHEMISTRY AND CHEMICAL ENGINEERING	COMPUPLAST INT INC	5	3	0.60	0.15	0.08	0.54	60%	88%
CHEMISTRY AND CHEMICAL ENGINEERING	ON SEMICONDUCTOR CZECH REPUBL	5	1	0.20	0.05	0.04	0.86	80%	75%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute of Mathematics ASCR	5	6	1.20	0.19	0.12	0.62	40%	68%



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CHEMISTRY AND CHEMICAL ENGINEERING	Research Institute of Soil and Water Conservation	5	3	0.60	0.77	0.03	0.03	60%	57%
CHEMISTRY AND CHEMICAL ENGINEERING	DEZA CORP	5	2	0.40	0.48	0.01	0.02	60%	0%
CHEMISTRY AND CHEMICAL ENGINEERING	Institute for the Care of Mother and Child	5	21	4.20	1.56	0.41	0.26	60%	25%
CIVIL ENGINEERING AND CONSTRUCTION	Czech Technical University in Prague	104	228	2.19	0.72	0.74	1.02	45%	26%
CIVIL ENGINEERING AND CONSTRUCTION	Academy of Sciences (global)	74	173	2.34	0.50	0.46	0.92	35%	24%
CIVIL ENGINEERING AND CONSTRUCTION	Brno University of Technology	55	100	1.82	0.44	0.49	1.13	42%	39%
CIVIL ENGINEERING AND CONSTRUCTION	Institute of Theoretical and Applied Mechanics ASCR	28	62	2.21	0.57	0.48	0.84	32%	24%
CIVIL ENGINEERING AND CONSTRUCTION	Charles University in Prague	25	40	1.60	0.40	0.29	0.72	56%	32%
CIVIL ENGINEERING AND CONSTRUCTION	University of Pardubice	13	17	1.31	0.26	0.44	1.69	46%	35%
CIVIL ENGINEERING AND CONSTRUCTION	Institute of Chemical Technology Prague	13	25	1.92	0.36	0.39	1.08	38%	22%
CIVIL ENGINEERING AND CONSTRUCTION	Institute of Thermomechanics ASCR	9	5	0.56	0.12	0.12	0.99	67%	64%
CIVIL ENGINEERING AND CONSTRUCTION	Institute of Hydrodynamics ASCR	9	31	3.44	0.47	0.51	1.08	33%	26%
CIVIL ENGINEERING AND CONSTRUCTION	Tomas Bata University in Zlin	8	21	2.63	0.43	0.46	1.08	25%	16%
CIVIL ENGINEERING AND CONSTRUCTION	Institute of Chemical Process Fundamentals ASCR	8	42	5.25	0.73	0.67	0.92	25%	13%
CIVIL ENGINEERING AND CONSTRUCTION	VSB-Technical University of Ostrava	6	1	0.17	0.24	0.15	0.61	83%	0%
CIVIL ENGINEERING AND CONSTRUCTION	Mendel University in Brno	6	108	18.00	1.57	2.42	1.54	17%	36%
CIVIL ENGINEERING AND CONSTRUCTION	T.G. Masaryk Water Research Institute	6	124	20.67	2.15	4.33	2.01	33%	21%
CIVIL ENGINEERING AND CONSTRUCTION	National Institute of Public Health and regional hygienic stations	6	14	2.33	0.45	0.24	0.54	17%	33%
CIVIL ENGINEERING AND CONSTRUCTION	CERVENKA COUNSULTING	5	16	3.20	1.53	1.62	1.06	60%	30%
CLINICAL MEDICINE	Charles University in Prague	4844	36906	7.62	1.04	0.75	0.72	31%	22%
CLINICAL MEDICINE	Academy of Sciences (global)	2579	16667	6.46	0.81	0.56	0.69	25%	35%
CLINICAL MEDICINE	Masaryk University	1014	5366	5.29	1.02	0.57	0.56	35%	22%
CLINICAL MEDICINE	University of Veterinary and Pharmaceutical	912	2189	2.40	0.94	0.55	0.59	42%	34%

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	Sciences Brno								
CLINICAL MEDICINE	Biology Centre ASCR	751	3563	4.74	0.98	0.66	0.68	26%	38%
CLINICAL MEDICINE	Institute for Clinical and Experimental Medicine	586	7489	12.78	1.37	1.20	0.88	28%	15%
CLINICAL MEDICINE	University Hospital Brno	507	2993	5.90	1.16	0.62	0.54	37%	14%
CLINICAL MEDICINE	Palacky University Olomouc	484	2643	5.46	0.97	0.62	0.63	41%	17%
CLINICAL MEDICINE	General University Hospital Prague	473	3391	7.17	1.21	0.73	0.61	34%	19%
CLINICAL MEDICINE	Veterinary Research Institute	464	1683	3.63	1.07	0.71	0.66	35%	46%
CLINICAL MEDICINE	University Hospital Motol	457	3149	6.89	1.03	0.72	0.70	34%	20%
CLINICAL MEDICINE	Institute of Physiology ASCR	390	3015	7.73	0.60	0.51	0.85	22%	35%
CLINICAL MEDICINE	Institute of Hematology and Blood Transfusion	378	2416	6.39	0.81	0.46	0.57	28%	29%
CLINICAL MEDICINE	National Institute of Public Health and regional hygienic stations	375	4105	10.95	1.04	0.99	0.95	22%	23%
CLINICAL MEDICINE	University of South Bohemia in Ceske Budejovice	350	1529	4.37	1.18	0.84	0.71	27%	35%
CLINICAL MEDICINE	Institute of Molecular Genetics ASCR	349	2327	6.67	0.67	0.39	0.58	25%	39%
CLINICAL MEDICINE	University Hospital Hradec Kralove	316	2273	7.19	1.68	0.80	0.48	41%	13%
CLINICAL MEDICINE	University Hospital Olomouc	285	1144	4.01	0.83	0.40	0.49	46%	19%
CLINICAL MEDICINE	Institute of Experimental Medicine ASCR	256	2671	10.43	1.00	0.78	0.79	20%	30%
CLINICAL MEDICINE	University Hospital in Plzen	252	1391	5.52	1.01	0.64	0.63	36%	15%
CLINICAL MEDICINE	Masaryk Memorial Cancer Institute	220	3977	18.08	1.56	1.29	0.82	24%	14%
CLINICAL MEDICINE	Na Homolce Hospital	218	1547	7.10	1.10	0.72	0.65	35%	16%
CLINICAL MEDICINE	Institute of Endocrinology	186	1532	8.24	0.78	0.49	0.63	14%	24%
CLINICAL MEDICINE	St. Anne's University Hospital Brno	177	1059	5.98	1.16	0.55	0.48	45%	13%
CLINICAL MEDICINE	Institute of Microbiology ASCR	164	1102	6.72	0.71	0.49	0.69	16%	36%
CLINICAL MEDICINE	University Hospital Kralovske Vinohrady	163	1483	9.10	1.21	0.92	0.76	36%	16%
CLINICAL MEDICINE	Institute of Animal Physiology and Genetics ASCR	149	676	4.54	0.88	0.51	0.58	30%	39%

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CLINICAL MEDICINE	Mendel University in Brno	145	428	2.95	0.84	0.43	0.51	34%	42%
CLINICAL MEDICINE	State Veterinary Administration of the Czech Republic	138	527	3.82	1.20	0.76	0.63	24%	48%
CLINICAL MEDICINE	University Hospital Ostrava	137	1139	8.31	1.48	0.79	0.54	51%	13%
CLINICAL MEDICINE	University of Defense	133	789	5.93	1.00	0.60	0.61	41%	25%
CLINICAL MEDICINE	Institute of Biophysics ASCR	124	551	4.44	0.52	0.32	0.60	27%	42%
CLINICAL MEDICINE	Institute of Vertebrate Biology ASCR	124	978	7.89	1.90	1.39	0.73	30%	17%
CLINICAL MEDICINE	Faculty Hospital Na Bulovce	121	1030	8.51	1.01	0.74	0.73	40%	16%
CLINICAL MEDICINE	Central Military Hospital Prague	114	700	6.14	1.28	0.65	0.51	45%	11%
CLINICAL MEDICINE	Institute for Postgraduate Medical Education	113	1156	10.23	1.28	0.75	0.59	40%	17%
CLINICAL MEDICINE	Institute of Rheumatology	111	3554	32.02	2.30	2.77	1.21	15%	15%
CLINICAL MEDICINE	Thomayer University Hospital	100	356	3.56	1.06	0.37	0.35	57%	13%
CLINICAL MEDICINE	Prague Psychiatric Centre	100	1117	11.17	1.25	1.06	0.85	31%	13%
CLINICAL MEDICINE	Institute of Organic Chemistry and Biochemistry ASCR	99	362	3.66	0.46	0.24	0.52	24%	50%
CLINICAL MEDICINE	Czech University of Life Sciences Prague	89	339	3.81	0.84	0.52	0.62	39%	23%
CLINICAL MEDICINE	Institute of Animal Science	87	417	4.79	0.75	0.69	0.93	33%	30%
CLINICAL MEDICINE	Czech Technical University in Prague	76	202	2.66	0.68	0.40	0.58	50%	26%
CLINICAL MEDICINE	ASCR unresolved	63	1020	16.19	1.39	1.27	0.92	21%	14%
CLINICAL MEDICINE	Masaryk Hospital in Ústí nad Labem,	62	392	6.32	1.72	0.54	0.31	48%	19%
CLINICAL MEDICINE	National Radiation Protection Institute	60	319	5.32	1.68	0.83	0.49	43%	21%
CLINICAL MEDICINE	Nuclear Physics Institute ASCR	56	101	1.80	0.61	0.21	0.35	48%	43%
CLINICAL MEDICINE	Institute of Chemical Technology Prague	54	233	4.31	0.65	0.48	0.75	26%	32%
CLINICAL MEDICINE	Pardubice Regional Hospital	53	460	8.68	1.27	1.24	0.98	57%	9%
CLINICAL MEDICINE	Institute of Computer Science ASCR	52	429	8.25	1.25	0.69	0.55	29%	12%
CLINICAL MEDICINE	Hospital České Budějovice	48	144	3.00	0.75	0.45	0.60	44%	16%
CLINICAL MEDICINE	Regional Hospital Kladno	46	517	11.24	1.61	0.84	0.52	15%	8%

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CLINICAL MEDICINE	Institute for the Care of Mother and Child	45	265	5.89	0.98	0.66	0.67	33%	17%
CLINICAL MEDICINE	Regional Hospital Liberec	43	129	3.00	0.80	0.46	0.57	58%	17%
CLINICAL MEDICINE	University of Ostrava	37	157	4.24	0.98	0.59	0.60	38%	11%
CLINICAL MEDICINE	Institute of Macromolecular Chemistry ASCR	26	338	13.00	1.33	0.82	0.61	19%	40%
CLINICAL MEDICINE	Institute of Systems Biology and Ecology ASCR	25	266	10.64	1.45	0.97	0.67	24%	29%
CLINICAL MEDICINE	Biopická laboratoř	24	12	0.50	0.44	0.37	0.85	71%	43%
CLINICAL MEDICINE	Brno University of Technology	22	56	2.55	1.17	0.39	0.33	55%	19%
CLINICAL MEDICINE	Frantisku Hospital	22	166	7.55	1.00	0.46	0.46	64%	11%
CLINICAL MEDICINE	University of Pardubice	22	40	1.82	0.46	0.26	0.57	55%	35%
CLINICAL MEDICINE	T. Bata Regional Hospital	21	342	16.29	1.81	1.09	0.60	29%	8%
CLINICAL MEDICINE	Centre of Cardiovascular and Transplantation Surgery	21	245	11.67	1.22	1.05	0.86	14%	9%
CLINICAL MEDICINE	Bioveta	18	67	3.72	1.11	0.65	0.59	22%	26%
CLINICAL MEDICINE	Research Institute for Cattle Breeding	18	30	1.67	1.04	0.51	0.49	44%	33%
CLINICAL MEDICINE	COMENIUS MUSEUM	17	41	2.41	0.65	0.33	0.50	29%	39%
CLINICAL MEDICINE	Institute of Experimental Botany ASCR	16	110	6.88	0.71	0.44	0.62	31%	23%
CLINICAL MEDICINE	Institute of Physics ASCR	16	25	1.56	0.85	0.46	0.54	63%	48%
CLINICAL MEDICINE	Institute of Analytical Chemistry ASCR	15	40	2.67	0.41	0.12	0.29	33%	47%
CLINICAL MEDICINE	Military Geography and Hydrometeorology Office Dobruška	15	25	1.67	0.54	0.18	0.33	40%	24%
CLINICAL MEDICINE	Jan Evangelista Purkyně University in Ústí nad Labem	15	12	0.80	0.75	0.32	0.43	80%	20%
CLINICAL MEDICINE	Institute of Scientific Instruments ASCR	14	90	6.43	0.40	0.54	1.33	7%	34%
CLINICAL MEDICINE	Hospital Šternberk	14	84	6.00	2.41	1.19	0.49	50%	7%
CLINICAL MEDICINE	HOSP. JIHLAVA	13	61	4.69	0.61	0.29	0.47	23%	18%
CLINICAL MEDICINE	Crop Research Institute	13	8	0.62	1.20	0.41	0.34	69%	58%
CLINICAL MEDICINE	J. Heyrovský Institute of Physical Chemistry	13	31	2.38	0.34	0.42	1.24	38%	50%

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	ASCR								
CLINICAL MEDICINE	Vitkovice Hospital of the Blessed Maria Antonia	12	145	12.08	5.25	1.26	0.24	83%	3%
CLINICAL MEDICINE	Regional Hospital Příbram	12	63	5.25	0.93	0.44	0.48	42%	21%
CLINICAL MEDICINE	REG HOSP	12	26	2.17	0.56	0.23	0.41	42%	16%
CLINICAL MEDICINE	MINIST HLTH CZECH REPUB	12	500	41.67	1.87	2.64	1.41	25%	5%
CLINICAL MEDICINE	VET HISTOPATHOL LAB	12	22	1.83	0.80	0.32	0.41	50%	19%
CLINICAL MEDICINE	AKH ZNOJMO	11	28	2.55	1.31	0.83	0.63	27%	0%
CLINICAL MEDICINE	ISCARE	11	68	6.18	0.62	1.03	1.67	9%	17%
CLINICAL MEDICINE	INST STATE CONTROL VET BIOL & MEDICAMENTS	11	36	3.27	1.91	0.81	0.42	36%	16%
CLINICAL MEDICINE	Institute of Biotechnology ASCR	10	8	0.80	0.67	0.53	0.79	80%	38%
CLINICAL MEDICINE	HOSP CTY CHOMUTOV	10	125	12.50	1.65	1.04	0.63	30%	5%
CLINICAL MEDICINE	HOSP CTY OSTRAVA	10	292	29.20	2.98	2.00	0.67	40%	16%
CLINICAL MEDICINE	BIOPHARM Research Institute of Biopharmacy and Veterinary Drugs	10	94	9.40	0.97	0.68	0.71	20%	29%
CLINICAL MEDICINE	Complex oncological Center Novy Jicin	9	26	2.89	0.82	0.37	0.46	67%	32%
CLINICAL MEDICINE	ZOO DVUR KRALOVE	9	40	4.44	0.79	0.44	0.55	44%	41%
CLINICAL MEDICINE	Zentiva	9	30	3.33	0.55	0.19	0.34	33%	32%
CLINICAL MEDICINE	VACORD BIOENGN RES CO LTD	9	26	2.89	0.41	0.23	0.57	44%	37%
CLINICAL MEDICINE	KLINLAB LTD	9	152	16.89	0.88	0.86	0.98	11%	40%
CLINICAL MEDICINE	Institute of Psychology ASCR	9	38	4.22	1.11	0.38	0.35	22%	12%
CLINICAL MEDICINE	DEPT DERMATOL	8	37	4.63	1.01	0.81	0.80	0%	8%
CLINICAL MEDICINE	DEPT DERMATOL	8	37	4.63	1.01	0.81	0.80	0%	8%
CLINICAL MEDICINE	HOSP VYSKOV	8	110	13.75	2.48	1.14	0.46	0%	7%
CLINICAL MEDICINE	CTR CLIN BASIC RES	8	26	3.25	0.77	0.81	1.06	38%	19%
CLINICAL MEDICINE	Institute of Hydrodynamics ASCR	8	22	2.75	0.50	0.13	0.25	25%	4%

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Field	Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
CLINICAL MEDICINE	State Office for Nuclear Safety	8	5	0.63	0.28	0.09	0.32	50%	38%
CLINICAL MEDICINE	Teva Czech Industries	8	35	4.38	0.91	0.45	0.49	25%	29%
CLINICAL MEDICINE	CZECH NEROL ASSOC JEP	7	4	0.57	2.25	0.04	0.02	71%	20%
CLINICAL MEDICINE	HOSP CTY FRYDEK MYSTEK	7	12	1.71	0.47	0.29	0.63	43%	0%
CLINICAL MEDICINE	DERMATOHISTOPATHOL LAB	7	31	4.43	0.88	0.62	0.70	0%	0%
CLINICAL MEDICINE	Tomas Bata University in Zlin	7	12	1.71	1.04	0.58	0.56	57%	40%
CLINICAL MEDICINE	University of West Bohemia in Plzen	7	45	6.43	1.51	1.12	0.74	43%	18%
CLINICAL MEDICINE	EYE CLIN LEXUM	7	15	2.14	0.61	0.69	1.12	0%	12%
CLINICAL MEDICINE	HOSP PODLESI	6	9	1.50	0.71	0.43	0.60	33%	0%
CLINICAL MEDICINE	Czech Hydrometeorological Institute	6	2	0.33	0.09	0.02	0.25	67%	67%
CLINICAL MEDICINE	Institute of Information Theory and Automation ASCR	6	36	6.00	0.53	0.36	0.68	0%	20%
CLINICAL MEDICINE	Institute of Botany ASCR	6	24	4.00	3.21	1.45	0.45	17%	27%
CLINICAL MEDICINE	GENEX CZ SRO	6	12	2.00	0.66	0.47	0.71	17%	8%
CLINICAL MEDICINE	Agency for Nature Conservation and Landscape Protection of the Czech Republic	6	5	0.83	0.33	0.25	0.76	17%	67%
CLINICAL MEDICINE	VSB-Technical University of Ostrava	6	19	3.17	0.92	0.43	0.47	50%	10%
CLINICAL MEDICINE	VET CLIN	6	4	0.67	0.24	0.18	0.76	67%	50%
CLINICAL MEDICINE	NEUROL ODDELENI	6	2	0.33	1.54	0.02	0.01	67%	82%
CLINICAL MEDICINE	Institute of Thermomechanics ASCR	5	7	1.40	0.44	0.25	0.57	20%	42%
CLINICAL MEDICINE	DIST HOSP	5	26	5.20	0.83	0.53	0.64	40%	16%
CLINICAL MEDICINE	GENOMAC INT LTD	5	15	3.00	1.14	0.58	0.50	60%	17%
CLINICAL MEDICINE	BIOLAB PRAGUE SRO	5	34	6.80	1.35	0.44	0.33	40%	29%
CLINICAL MEDICINE	Czech Metrology Institute	5	12	2.40	1.74	0.52	0.30	60%	8%
CLINICAL MEDICINE	Institute of Theoretical and Applied Mechanics ASCR	5	8	1.60	0.16	0.13	0.80	0%	50%
CLINICAL MEDICINE	HOSP NOVY JICIN	5	8	1.60	0.36	0.21	0.58	60%	27%
CLINICAL MEDICINE	University of Economics Prague	5	13	2.60	1.04	0.28	0.27	60%	28%

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CLINICAL MEDICINE	VEDIA	5	44	8.80	2.55	1.14	0.45	0%	21%
CLINICAL MEDICINE	VYSOKA SKOLA ZDRAVOTN	5	0	0.00	0.00	0.00	0.15	100%	
CLINICAL MEDICINE	University of Hradec Kralove	5	25	5.00	1.44	0.33	0.23	40%	17%
CLINICAL MEDICINE	RADON VOS CORP	5	7	1.40	0.91	0.28	0.30	80%	22%
COMPUTER SCIENCES	Academy of Sciences (global)	965	3886	4.03	0.99	0.94	0.95	47%	28%
COMPUTER SCIENCES	Charles University in Prague	629	1522	2.42	0.81	0.62	0.77	54%	31%
COMPUTER SCIENCES	Czech Technical University in Prague	524	1018	1.94	0.90	0.65	0.72	58%	27%
COMPUTER SCIENCES	Institute of Information Theory and Automation ASCR	402	1953	4.86	1.25	1.24	0.99	47%	23%
COMPUTER SCIENCES	Institute of Computer Science ASCR	301	759	2.52	0.75	0.61	0.82	53%	33%
COMPUTER SCIENCES	Masaryk University	246	453	1.84	0.74	0.58	0.78	58%	40%
COMPUTER SCIENCES	Brno University of Technology	174	167	0.96	0.54	0.29	0.54	72%	35%
COMPUTER SCIENCES	VSB-Technical University of Ostrava	165	413	2.50	1.08	0.78	0.72	46%	40%
COMPUTER SCIENCES	University of West Bohemia in Plzen	154	200	1.30	0.83	0.41	0.49	72%	35%
COMPUTER SCIENCES	Institute of Mathematics ASCR	103	434	4.21	1.30	1.33	1.02	44%	24%
COMPUTER SCIENCES	Palacky University Olomouc	86	111	1.29	0.81	0.69	0.85	63%	42%
COMPUTER SCIENCES	Silesian University in Opava	58	155	2.67	0.95	0.87	0.91	43%	25%
COMPUTER SCIENCES	University of Economics Prague	56	164	2.93	1.18	0.67	0.57	59%	19%
COMPUTER SCIENCES	University of Ostrava	52	178	3.42	1.26	1.08	0.86	37%	31%
COMPUTER SCIENCES	Institute of Thermomechanics ASCR	33	24	0.73	0.47	0.20	0.42	55%	44%
COMPUTER SCIENCES	Institute of Physiology ASCR	32	205	6.41	1.12	0.73	0.65	34%	37%
COMPUTER SCIENCES	Institute of Chemical Technology Prague	31	108	3.48	0.54	0.54	1.00	32%	36%
COMPUTER SCIENCES	Technical University of Liberec	25	9	0.36	0.27	0.12	0.45	76%	50%
COMPUTER SCIENCES	ASCR unresolved	21	64	3.05	0.94	0.53	0.56	38%	38%
COMPUTER SCIENCES	Rockwell Automation Inc	20	53	2.65	2.06	1.02	0.49	25%	23%
COMPUTER SCIENCES	Institute of Geonics ASCR	19	18	0.95	0.52	0.43	0.83	63%	38%
COMPUTER SCIENCES	Institute of Chemical Process Fundamentals	13	47	3.62	0.34	0.48	1.44	23%	49%

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	ASCR								
COMPUTER SCIENCES	University of Pardubice	11	9	0.82	0.14	0.09	0.65	55%	73%
COMPUTER SCIENCES	Institute of Photonics and Electronics ASCR	10	2	0.20	0.20	0.08	0.41	80%	33%
COMPUTER SCIENCES	Czech University of Life Sciences Prague	9	1	0.11	0.07	0.03	0.40	89%	67%
COMPUTER SCIENCES	Institute of Organic Chemistry and Biochemistry ASCR	8	42	5.25	0.52	0.91	1.74	25%	26%
COMPUTER SCIENCES	CESNET	8	2	0.25	0.13	0.13	1.02	75%	50%
COMPUTER SCIENCES	CERTICON AS	7	12	1.71	1.04	0.71	0.69	43%	20%
COMPUTER SCIENCES	Tomas Bata University in Zlin	7	8	1.14	1.36	0.61	0.45	57%	20%
COMPUTER SCIENCES	Institute of Atmospheric Physics ASCR	7	29	4.14	1.28	1.47	1.15	29%	55%
COMPUTER SCIENCES	Institute of Physics ASCR	7	138	19.71	1.28	1.66	1.30	29%	25%
COMPUTER SCIENCES	National Institute of Public Health and regional hygienic stations	6	16	2.67	0.57	0.27	0.47	33%	36%
COMPUTER SCIENCES	Faculty Hospital Na Bulovce	6	5	0.83	0.43	0.30	0.69	67%	0%
COMPUTER SCIENCES	Institute of Macromolecular Chemistry ASCR	6	17	2.83	0.29	0.26	0.89	67%	39%
COMPUTER SCIENCES	Astronomical Institute ASCR	5	101	20.20	1.57	2.92	1.86	40%	28%
COMPUTER SCIENCES	J. Heyrovsky Institute of Physical Chemistry ASCR	5	23	4.60	0.33	0.51	1.53	0%	36%
COMPUTER SCIENCES	Central Military Hospital Prague	5	7	1.40	0.47	0.19	0.40	20%	30%
CREATIVE ARTS, CULTURE AND MUSIC	Charles University in Prague	41	9	0.22	0.55	0.45	0.82	85%	36%
CREATIVE ARTS, CULTURE AND MUSIC	Academy of Sciences (global)	30	11	0.37	1.48	1.33	0.90	83%	35%
CREATIVE ARTS, CULTURE AND MUSIC	Institute of Art History of the ASCR,	13	2	0.15	1.47	2.44	1.66	92%	0%
CREATIVE ARTS, CULTURE AND MUSIC	ASCR unresolved	10	1	0.10	0.60	0.34	0.56	90%	0%
CREATIVE ARTS, CULTURE AND MUSIC	Masaryk University	9	1	0.11	0.43	0.44	1.03	89%	0%
CREATIVE ARTS, CULTURE AND MUSIC	Palacky University Olomouc	7	0	0.00	0.00	0.00	0.39	100%	
EARTH SCIENCES AND TECHNOLOGY	Academy of Sciences (global)	1779	7591	4.27	0.82	0.50	0.62	35%	37%
EARTH SCIENCES AND TECHNOLOGY	Charles University in Prague	1012	5126	5.07	0.90	0.67	0.74	33%	35%



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EARTH SCIENCES AND TECHNOLOGY	Institute of Geophysics ASCR	483	2271	4.70	0.77	0.45	0.58	29%	39%
EARTH SCIENCES AND TECHNOLOGY	Czech Geological Survey	427	2762	6.47	1.04	0.91	0.88	30%	29%
EARTH SCIENCES AND TECHNOLOGY	Institute of Atmospheric Physics ASCR	364	1294	3.55	0.85	0.40	0.47	35%	41%
EARTH SCIENCES AND TECHNOLOGY	Institute of Geology ASCR	329	1184	3.60	0.77	0.56	0.72	38%	36%
EARTH SCIENCES AND TECHNOLOGY	Masaryk University	181	828	4.57	0.88	0.68	0.76	34%	36%
EARTH SCIENCES AND TECHNOLOGY	Astronomical Institute ASCR	178	469	2.63	0.80	0.26	0.32	49%	39%
EARTH SCIENCES AND TECHNOLOGY	Institute of Rock Structure and Mechanics ASCR	133	274	2.06	0.70	0.39	0.55	55%	37%
EARTH SCIENCES AND TECHNOLOGY	VSB-Technical University of Ostrava	97	290	2.99	0.95	0.75	0.79	62%	26%
EARTH SCIENCES AND TECHNOLOGY	National Museum	97	201	2.07	0.63	0.38	0.61	44%	46%
EARTH SCIENCES AND TECHNOLOGY	Czech Hydrometeorological Institute	79	471	5.96	0.96	0.87	0.91	30%	28%
EARTH SCIENCES AND TECHNOLOGY	University of South Bohemia in Ceske Budejovice	75	593	7.91	0.88	1.10	1.25	21%	32%
EARTH SCIENCES AND TECHNOLOGY	Czech Technical University in Prague	71	134	1.89	0.46	0.35	0.76	59%	32%
EARTH SCIENCES AND TECHNOLOGY	Biology Centre ASCR	67	873	13.03	0.94	1.34	1.43	15%	32%
EARTH SCIENCES AND TECHNOLOGY	Institute of Botany ASCR	48	407	8.48	1.34	1.48	1.10	19%	22%
EARTH SCIENCES AND TECHNOLOGY	Research Institute of Geodesy, Topography and Cartography	44	46	1.05	0.41	0.17	0.41	55%	57%
EARTH SCIENCES AND TECHNOLOGY	Institute of Chemical Technology Prague	39	129	3.31	0.83	0.68	0.81	51%	30%
EARTH SCIENCES AND TECHNOLOGY	Institute of Inorganic Chemistry ASCR	38	137	3.61	0.89	0.81	0.91	29%	38%
EARTH SCIENCES AND TECHNOLOGY	Institute of Geonics ASCR	38	45	1.18	0.45	0.23	0.50	63%	35%
EARTH SCIENCES AND TECHNOLOGY	Brno University of Technology	35	93	2.66	0.76	0.52	0.68	71%	31%
EARTH SCIENCES AND TECHNOLOGY	Palacky University Olomouc	34	46	1.35	0.47	0.32	0.68	50%	41%
EARTH SCIENCES AND TECHNOLOGY	AGICO (Advanced Geoscience Instruments Company)	34	127	3.74	0.66	0.47	0.71	26%	34%
EARTH SCIENCES AND TECHNOLOGY	Nuclear Physics Institute ASCR	32	86	2.69	0.58	0.40	0.68	34%	49%
EARTH SCIENCES AND TECHNOLOGY	Institute of Systems Biology and Ecology ASCR	31	175	5.65	0.93	0.92	0.99	26%	33%

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EARTH SCIENCES AND TECHNOLOGY	Mendel University in Brno	30	230	7.67	1.06	1.34	1.26	30%	36%
EARTH SCIENCES AND TECHNOLOGY	University of West Bohemia in Plzen	29	20	0.69	0.43	0.30	0.71	55%	53%
EARTH SCIENCES AND TECHNOLOGY	Moravian Museum	28	138	4.93	0.89	0.59	0.66	14%	38%
EARTH SCIENCES AND TECHNOLOGY	Czech University of Life Sciences Prague	25	66	2.64	1.24	0.88	0.71	52%	34%
EARTH SCIENCES AND TECHNOLOGY	Institute of Chemical Process Fundamentals ASCR	24	143	5.96	0.75	0.74	0.99	25%	39%
EARTH SCIENCES AND TECHNOLOGY	Institute of Physics ASCR	21	59	2.81	0.45	0.43	0.96	38%	46%
EARTH SCIENCES AND TECHNOLOGY	Military Geography and Hydrometeorology Office Dobruska	21	24	1.14	0.45	0.08	0.19	43%	47%
EARTH SCIENCES AND TECHNOLOGY	ASCR unresolved	17	95	5.59	0.81	0.50	0.61	35%	43%
EARTH SCIENCES AND TECHNOLOGY	Institute of Archaeology ASCR	16	34	2.13	0.58	0.54	0.93	25%	26%
EARTH SCIENCES AND TECHNOLOGY	W BOHEMIAN MUSEUM PLZEN	14	12	0.86	0.36	0.24	0.66	57%	72%
EARTH SCIENCES AND TECHNOLOGY	T.G. Masaryk Water Research Institute	12	137	11.42	1.46	2.31	1.58	42%	20%
EARTH SCIENCES AND TECHNOLOGY	Institute of Theoretical and Applied Mechanics ASCR	12	26	2.17	0.36	0.30	0.83	33%	48%
EARTH SCIENCES AND TECHNOLOGY	Institute of Hydrodynamics ASCR	11	41	3.73	0.45	0.53	1.17	27%	24%
EARTH SCIENCES AND TECHNOLOGY	Crop Research Institute	11	102	9.27	2.02	1.34	0.67	45%	23%
EARTH SCIENCES AND TECHNOLOGY	University of Ostrava	11	5	0.45	0.67	0.30	0.45	73%	55%
EARTH SCIENCES AND TECHNOLOGY	GEOFYZIKA AS	10	178	17.80	1.44	1.00	0.70	20%	12%
EARTH SCIENCES AND TECHNOLOGY	National Institute of Public Health and regional hygienic stations	10	136	13.60	1.33	1.38	1.04	20%	28%
EARTH SCIENCES AND TECHNOLOGY	Tomas Bata University in Zlin	10	49	4.90	0.45	0.42	0.92	10%	22%
EARTH SCIENCES AND TECHNOLOGY	Institute of Thermomechanics ASCR	8	9	1.13	0.34	0.24	0.69	50%	50%
EARTH SCIENCES AND TECHNOLOGY	Institute of Microbiology ASCR	8	45	5.63	0.94	1.24	1.32	25%	24%
EARTH SCIENCES AND TECHNOLOGY	Institute of Computer Science ASCR	7	50	7.14	1.20	1.35	1.13	14%	29%
EARTH SCIENCES AND TECHNOLOGY	Technical University of Liberec	7	56	8.00	0.81	1.16	1.42	14%	42%
EARTH SCIENCES AND TECHNOLOGY	Institute of Physics of Materials ASCR	7	31	4.43	1.09	1.13	1.03	29%	37%
EARTH SCIENCES AND TECHNOLOGY	J. Heyrovsky Institute of Physical Chemistry ASCR	6	44	7.33	0.55	0.65	1.18	33%	44%

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EARTH SCIENCES AND TECHNOLOGY	MORAVIAN LAND ARCH	5	8	1.60	0.37	0.42	1.13	80%	43%
EARTH SCIENCES AND TECHNOLOGY	Academy of Fine Arts in Prague	5	47	9.40	2.73	2.11	0.77	20%	24%
EARTH SCIENCES AND TECHNOLOGY	Institute of Information Theory and Automation ASCR	5	86	17.20	1.99	2.30	1.16	0%	15%
ECONOMICS AND BUSINESS	University of Economics Prague	435	195	0.45	0.76	0.08	0.11	72%	36%
ECONOMICS AND BUSINESS	Academy of Sciences (global)	267	691	2.59	0.88	0.45	0.51	48%	18%
ECONOMICS AND BUSINESS	Charles University in Prague	254	331	1.30	1.33	0.31	0.23	63%	17%
ECONOMICS AND BUSINESS	CERGE-Economics Institute ASCR	223	604	2.71	0.83	0.47	0.56	46%	18%
ECONOMICS AND BUSINESS	Czech National Bank	207	202	0.98	1.35	0.18	0.13	61%	25%
ECONOMICS AND BUSINESS	VSB-Technical University of Ostrava	68	44	0.65	1.10	0.12	0.11	71%	35%
ECONOMICS AND BUSINESS	Mendel University in Brno	57	62	1.09	0.78	0.76	0.97	54%	17%
ECONOMICS AND BUSINESS	Czech University of Life Sciences Prague	57	47	0.82	1.00	1.52	1.52	58%	22%
ECONOMICS AND BUSINESS	Masaryk University	49	12	0.24	0.42	0.06	0.14	80%	33%
ECONOMICS AND BUSINESS	KOMERCNI BANKA AS	42	34	0.81	1.34	0.13	0.10	67%	24%
ECONOMICS AND BUSINESS	Institute of Agricultural Economics and Informations Praha	34	42	1.24	1.20	0.33	0.28	68%	29%
ECONOMICS AND BUSINESS	ASCR unresolved	21	75	3.57	1.06	0.62	0.58	57%	6%
ECONOMICS AND BUSINESS	University of Hradec Kralove	18	6	0.33	0.76	0.12	0.16	89%	45%
ECONOMICS AND BUSINESS	Technical University of Liberec	18	9	0.50	2.18	0.39	0.18	72%	18%
ECONOMICS AND BUSINESS	Silesian University in Opava	18	5	0.28	0.56	0.08	0.15	72%	17%
ECONOMICS AND BUSINESS	Institute of Sociology ASCR	18	17	0.94	1.41	0.14	0.10	50%	32%
ECONOMICS AND BUSINESS	MINIST FINANCE	16	10	0.63	1.05	0.12	0.12	69%	17%
ECONOMICS AND BUSINESS	University of Pardubice	16	0	0.00	0.00	0.00	0.09	100%	100%
ECONOMICS AND BUSINESS	University of South Bohemia in Ceske Budejovice	14	9	0.64	1.29	0.36	0.28	79%	10%
ECONOMICS AND BUSINESS	NEWTON HOLDING AS	14	7	0.50	0.57	0.08	0.13	71%	50%
ECONOMICS AND BUSINESS	CTR ECON & POLIT	12	6	0.50	0.88	0.13	0.15	50%	45%

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ECONOMICS AND BUSINESS	Institute of Information Theory and Automation ASCR	10	13	1.30	1.36	0.36	0.27	50%	0%
ECONOMICS AND BUSINESS	CZECH BUR STAT	10	5	0.50	0.53	0.07	0.14	60%	17%
ECONOMICS AND BUSINESS	Tomas Bata University in Zlin	10	3	0.30	1.34	0.21	0.16	70%	25%
ECONOMICS AND BUSINESS	CESKOSLOVENSKA OBCHODNI BANKA AS	8	2	0.25	0.41	0.03	0.08	75%	60%
ECONOMICS AND BUSINESS	University of West Bohemia in Plzen	8	3	0.38	0.16	0.13	0.82	88%	40%
ECONOMICS AND BUSINESS	PATRIA FINANCE AS	7	8	1.14	1.49	0.16	0.11	57%	0%
ECONOMICS AND BUSINESS	Jan Evangelista Purkyně University in Ústí nad Labem	7	1	0.14	0.44	0.21	0.47	86%	0%
ECONOMICS AND BUSINESS	Czech Technical University in Prague	6	3	0.50	1.22	0.41	0.34	83%	0%
ECONOMICS AND BUSINESS	CTR FRANCAIS RECH SCI SOCIALES PRAGUE	5	2	0.40	1.54	0.12	0.08	80%	33%
ECONOMICS AND BUSINESS	COLL FINANCE & ADM	5	0	0.00	0.00	0.00	0.22	100%	100%
ECONOMICS AND BUSINESS	Brno University of Technology	5	0	0.00	0.00	0.00	0.18	100%	
ECONOMICS AND BUSINESS	CESKA SPORITELNA AS	5	1	0.20	0.27	0.03	0.13	80%	0%
EDUCATIONAL SCIENCES	Charles University in Prague	23	22	0.96	0.57	0.23	0.41	65%	29%
EDUCATIONAL SCIENCES	Academy of Sciences (global)	12	26	2.17	0.49	0.36	0.73	33%	19%
EDUCATIONAL SCIENCES	Masaryk University	10	9	0.90	0.64	0.22	0.34	70%	44%
EDUCATIONAL SCIENCES	Palacky University Olomouc	9	7	0.78	0.31	0.16	0.52	56%	22%
EDUCATIONAL SCIENCES	University of Ostrava	7	0	0.00	0.00	0.00	0.04	100%	100%
EDUCATIONAL SCIENCES	Institute of Sociology ASCR	5	14	2.80	0.45	0.71	1.59	60%	18%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Academy of Sciences (global)	581	2435	4.19	0.77	0.84	1.08	43%	31%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Czech Technical University in Prague	368	990	2.69	0.72	0.79	1.11	49%	29%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Institute of Information Theory and Automation ASCR	199	1469	7.38	0.86	1.54	1.80	33%	22%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Brno University of Technology	183	237	1.30	0.65	0.37	0.57	64%	34%

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ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Institute of Physics ASCR	172	338	1.97	0.59	0.35	0.60	52%	50%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Charles University in Prague	131	310	2.37	0.61	0.47	0.76	46%	47%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Institute of Photonics and Electronics ASCR	104	398	3.83	0.87	0.81	0.92	37%	34%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	University of West Bohemia in Plzen	42	31	0.74	0.54	0.29	0.54	81%	35%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	University of Pardubice	38	28	0.74	0.43	0.29	0.67	63%	62%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Institute of Chemical Technology Prague	36	25	0.69	0.25	0.17	0.65	67%	61%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Masaryk University	28	75	2.68	0.60	0.43	0.72	39%	34%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	VSB-Technical University of Ostrava	26	3	0.12	0.13	0.08	0.63	88%	67%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Institute of Thermomechanics ASCR	23	15	0.65	0.49	0.21	0.43	74%	62%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Technical University of Liberec	21	26	1.24	0.37	0.31	0.83	48%	26%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Institute of Mathematics ASCR	16	27	1.69	0.53	0.56	1.05	50%	39%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Nuclear Physics Institute ASCR	15	13	0.87	0.25	0.16	0.64	60%	68%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Institute of Scientific Instruments ASCR	13	21	1.62	0.32	0.24	0.75	38%	40%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Institute of Macromolecular Chemistry ASCR	13	33	2.54	0.92	0.41	0.45	23%	49%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	CESNET	13	14	1.08	0.42	0.38	0.90	62%	33%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	HONEYWELL PRAGUE LAB	12	24	2.00	0.86	0.86	0.99	50%	4%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Institute of Computer Science ASCR	12	68	5.67	0.85	1.60	1.88	50%	38%

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TELECOMMUNICATION									
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Czech University of Life Sciences Prague	12	12	1.00	0.54	0.32	0.59	67%	56%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Tomas Bata University in Zlin	9	2	0.22	0.29	0.12	0.41	78%	50%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Institute of Atmospheric Physics ASCR	7	14	2.00	0.88	0.56	0.63	71%	44%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	CRYTUR Ltd	7	23	3.29	0.93	1.15	1.24	29%	63%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Czech Metrology Institute	7	10	1.43	0.54	0.36	0.66	57%	44%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Rockwell Automation Inc	7	27	3.86	1.89	2.11	1.11	29%	10%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	University of Defense	7	4	0.57	1.04	0.74	0.72	57%	43%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	SKODA AUTO	5	20	4.00	1.66	0.55	0.33	20%	9%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Institute of Inorganic Chemistry ASCR	5	7	1.40	0.20	0.22	1.10	40%	61%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Jan Evangelista Purkyně University in Ústí nad Labem	5	0	0.00	0.00	0.00	0.24	100%	100%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	University of South Bohemia in České Budějovice	5	2	0.40	0.42	0.23	0.56	60%	33%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	J. Heyrovský Institute of Physical Chemistry ASCR	5	8	1.60	0.32	0.28	0.87	60%	60%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	ON SEMICONDUCTOR CZECH REPUBLIC	5	1	0.20	0.14	0.06	0.44	80%	0%
ELECTRICAL ENGINEERING AND TELECOMMUNICATION	Palacký University Olomouc	5	11	2.20	0.32	0.38	1.20	60%	52%
ENERGY SCIENCE AND TECHNOLOGY	Academy of Sciences (global)	1019	3055	3.00	0.94	0.63	0.67	44%	55%
ENERGY SCIENCE AND TECHNOLOGY	Nuclear Physics Institute ASCR	400	842	2.11	0.67	0.39	0.58	45%	53%
ENERGY SCIENCE AND TECHNOLOGY	Czech Technical University in Prague	320	676	2.11	0.79	0.44	0.56	52%	59%

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ENERGY SCIENCE AND TECHNOLOGY	Institute of Physics ASCR	292	1276	4.37	1.49	0.94	0.63	41%	62%
ENERGY SCIENCE AND TECHNOLOGY	Charles University in Prague	277	905	3.27	1.12	0.63	0.57	42%	70%
ENERGY SCIENCE AND TECHNOLOGY	Institute of Chemical Technology Prague	221	422	1.91	0.71	0.35	0.49	54%	52%
ENERGY SCIENCE AND TECHNOLOGY	University of West Bohemia in Plzen	78	27	0.35	0.29	0.08	0.28	82%	73%
ENERGY SCIENCE AND TECHNOLOGY	Nuclear Research Institute Rez	75	125	1.67	0.80	0.48	0.60	52%	42%
ENERGY SCIENCE AND TECHNOLOGY	Brno University of Technology	65	192	2.95	0.68	0.79	1.16	43%	25%
ENERGY SCIENCE AND TECHNOLOGY	VSB-Technical University of Ostrava	63	95	1.51	0.86	0.84	0.98	71%	21%
ENERGY SCIENCE AND TECHNOLOGY	Institute of Rock Structure and Mechanics ASCR	61	87	1.43	0.51	0.49	0.97	67%	30%
ENERGY SCIENCE AND TECHNOLOGY	National Radiation Protection Institute	59	57	0.97	0.79	0.26	0.32	61%	46%
ENERGY SCIENCE AND TECHNOLOGY	Institute of Plasma Physics ASCR	54	77	1.43	0.89	0.75	0.85	65%	58%
ENERGY SCIENCE AND TECHNOLOGY	Czech Metrology Institute	35	64	1.83	0.80	0.38	0.47	57%	37%
ENERGY SCIENCE AND TECHNOLOGY	J. Heyrovsky Institute of Physical Chemistry ASCR	33	205	6.21	0.71	0.82	1.16	12%	28%
ENERGY SCIENCE AND TECHNOLOGY	CRYTUR Ltd	32	213	6.66	2.31	1.58	0.68	22%	52%
ENERGY SCIENCE AND TECHNOLOGY	ASCR unresolved	29	131	4.52	1.05	0.70	0.67	10%	52%
ENERGY SCIENCE AND TECHNOLOGY	Masaryk University	26	36	1.38	0.62	0.27	0.44	54%	36%
ENERGY SCIENCE AND TECHNOLOGY	University of Pardubice	25	38	1.52	0.43	0.29	0.68	36%	42%
ENERGY SCIENCE AND TECHNOLOGY	Institute of Inorganic Chemistry ASCR	23	43	1.87	0.51	0.38	0.75	39%	48%
ENERGY SCIENCE AND TECHNOLOGY	Czech Geological Survey	21	62	2.95	0.77	0.60	0.79	38%	32%
ENERGY SCIENCE AND TECHNOLOGY	National Institute of Public Health and regional hygienic stations	21	107	5.10	0.72	0.53	0.74	19%	32%
ENERGY SCIENCE AND TECHNOLOGY	Institute of Photonics and Electronics ASCR	21	55	2.62	0.91	0.55	0.61	43%	45%
ENERGY SCIENCE AND TECHNOLOGY	Institute of Geonics ASCR	20	7	0.35	0.59	0.29	0.48	90%	36%
ENERGY SCIENCE AND TECHNOLOGY	Palacky University Olomouc	19	49	2.58	0.66	0.44	0.66	21%	56%
ENERGY SCIENCE AND TECHNOLOGY	Technical University of Liberec	19	16	0.84	0.59	0.28	0.48	58%	78%
ENERGY SCIENCE AND TECHNOLOGY	Institute of Geology ASCR	16	41	2.56	0.46	0.56	1.21	50%	28%

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ENERGY SCIENCE AND TECHNOLOGY	Institute of Analytical Chemistry ASCR	15	22	1.47	0.55	0.24	0.44	47%	35%
ENERGY SCIENCE AND TECHNOLOGY	Institute of Macromolecular Chemistry ASCR	14	27	1.93	0.68	0.51	0.76	36%	43%
ENERGY SCIENCE AND TECHNOLOGY	Institute of Geophysics ASCR	14	68	4.86	0.86	0.84	0.99	36%	28%
ENERGY SCIENCE AND TECHNOLOGY	Institute of Physics of Materials ASCR	13	48	3.69	1.53	1.35	0.88	23%	39%
ENERGY SCIENCE AND TECHNOLOGY	Institute of Chemical Process Fundamentals ASCR	12	63	5.25	1.14	1.23	1.08	25%	28%
ENERGY SCIENCE AND TECHNOLOGY	State Office for Nuclear Safety	12	9	0.75	0.45	0.14	0.32	50%	40%
ENERGY SCIENCE AND TECHNOLOGY	Institute of Organic Chemistry and Biochemistry ASCR	10	11	1.10	0.55	0.21	0.37	60%	58%
ENERGY SCIENCE AND TECHNOLOGY	SKODA AUTO	9	3	0.33	0.19	0.11	0.57	67%	67%
ENERGY SCIENCE AND TECHNOLOGY	Institute of Scientific Instruments ASCR	9	33	3.67	1.33	0.61	0.46	33%	58%
ENERGY SCIENCE AND TECHNOLOGY	Czech University of Life Sciences Prague	8	27	3.38	1.06	1.09	1.03	63%	23%
ENERGY SCIENCE AND TECHNOLOGY	EVECO BRNO LTD	8	33	4.13	1.43	1.54	1.07	25%	13%
ENERGY SCIENCE AND TECHNOLOGY	Institute of Physiology ASCR	8	21	2.63	1.50	0.82	0.55	50%	60%
ENERGY SCIENCE AND TECHNOLOGY	Institute of Theoretical and Applied Mechanics ASCR	7	9	1.29	0.65	0.31	0.48	43%	67%
ENERGY SCIENCE AND TECHNOLOGY	Jan Evangelista Purkyně University in Ústí nad Labem	7	2	0.29	0.35	0.37	1.07	86%	50%
ENERGY SCIENCE AND TECHNOLOGY	Na Homolce Hospital	7	7	1.00	0.33	0.14	0.42	57%	53%
ENERGY SCIENCE AND TECHNOLOGY	INST TECHNOL INVEST	7	15	2.14	0.60	0.31	0.52	14%	40%
ENERGY SCIENCE AND TECHNOLOGY	Institute of Microbiology ASCR	7	50	7.14	1.31	2.22	1.69	14%	15%
ENERGY SCIENCE AND TECHNOLOGY	RADON VOS CORP	6	10	1.67	0.81	0.35	0.43	67%	33%
ENERGY SCIENCE AND TECHNOLOGY	Astronomical Institute ASCR	6	5	0.83	0.60	0.20	0.33	67%	44%
ENERGY SCIENCE AND TECHNOLOGY	GRP PRAHA	6	51	8.50	1.67	1.09	0.66	0%	63%
ENERGY SCIENCE AND TECHNOLOGY	Military Geography and Hydrometeorology Office Dobruška	6	4	0.67	0.21	0.11	0.53	67%	56%
ENERGY SCIENCE AND TECHNOLOGY	Institute of Biophysics ASCR	6	41	6.83	0.56	0.65	1.17	33%	28%
ENERGY SCIENCE AND TECHNOLOGY	University of Defense	6	5	0.83	0.27	0.16	0.57	67%	38%



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ENERGY SCIENCE AND TECHNOLOGY	Unipetrol Group	5	12	2.40	0.81	0.46	0.57	60%	52%
ENERGY SCIENCE AND TECHNOLOGY	Research Institute of Inorganic Chemistry	5	9	1.80	0.43	0.65	1.52	60%	40%
ENERGY SCIENCE AND TECHNOLOGY	General University Hospital Prague	5	14	2.80	0.32	0.40	1.26	20%	30%
ENERGY SCIENCE AND TECHNOLOGY	Institute of Computer Science ASCR	5	14	2.80	1.86	1.00	0.54	40%	59%
ENERGY SCIENCE AND TECHNOLOGY	University of South Bohemia in Ceske Budejovice	5	3	0.60	0.34	0.19	0.55	80%	50%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Academy of Sciences (global)	1555	12319	7.92	0.89	0.87	0.99	24%	29%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Charles University in Prague	522	2854	5.47	0.85	0.89	1.05	36%	28%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	University of South Bohemia in Ceske Budejovice	442	3669	8.30	0.93	0.99	1.07	22%	27%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Biology Centre ASCR	388	3978	10.25	0.89	0.86	0.97	15%	28%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Masaryk University	341	2121	6.22	1.04	1.04	1.00	29%	29%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Botany ASCR	308	2490	8.08	1.05	1.09	1.04	20%	25%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Chemical Technology Prague	254	1588	6.25	0.79	0.73	0.93	25%	20%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Mendel University in Brno	170	919	5.41	1.12	0.59	0.53	41%	32%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Systems Biology and Ecology ASCR	150	850	5.67	0.81	0.61	0.75	32%	30%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Czech University of Life Sciences Prague	120	492	4.10	1.03	0.78	0.75	44%	30%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Czech Technical University in Prague	118	354	3.00	0.63	0.47	0.75	46%	23%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Palacky University Olomouc	114	637	5.59	0.92	0.76	0.83	38%	22%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Czech Geological Survey	103	983	9.54	0.83	0.99	1.18	17%	35%

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ENVIRONMENTAL SCIENCES AND TECHNOLOGY	National Institute of Public Health and regional hygienic stations	98	1353	13.81	1.07	1.29	1.20	15%	22%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Vertebrate Biology ASCR	90	551	6.12	0.90	0.85	0.94	28%	38%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Chemical Process Fundamentals ASCR	83	500	6.02	0.52	0.66	1.27	22%	31%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Microbiology ASCR	82	442	5.39	0.79	0.78	0.98	23%	29%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	J. Heyrovsky Institute of Physical Chemistry ASCR	65	709	10.91	0.83	1.41	1.69	15%	20%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Organic Chemistry and Biochemistry ASCR	62	381	6.15	0.74	0.51	0.69	19%	44%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Nuclear Physics Institute ASCR	62	185	2.98	0.67	0.40	0.60	44%	32%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Brno University of Technology	58	138	2.38	0.54	0.39	0.72	38%	23%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	National Radiation Protection Institute	55	85	1.55	0.77	0.32	0.42	53%	38%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Crop Research Institute	50	178	3.56	0.58	0.49	0.84	28%	41%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	University of Pardubice	46	226	4.91	0.63	0.85	1.36	30%	23%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Inorganic Chemistry ASCR	41	227	5.54	0.76	1.13	1.48	37%	39%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	University of Veterinary and Pharmaceutical Sciences Brno	41	171	4.17	1.11	0.65	0.59	34%	26%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	T.G. Masaryk Water Research Institute	40	304	7.60	1.01	1.01	1.00	30%	18%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Atmospheric Physics ASCR	39	249	6.38	0.90	0.94	1.04	31%	29%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Experimental Botany ASCR	39	176	4.51	0.50	0.55	1.10	23%	42%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	VSB-Technical University of Ostrava	38	203	5.34	0.85	0.70	0.82	34%	22%

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TECHNOLOGY									
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Geology ASCR	34	75	2.21	0.76	0.50	0.65	44%	44%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Czech Hydrometeorological Institute	34	353	10.38	1.07	1.22	1.14	32%	16%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Experimental Medicine ASCR	31	942	30.39	1.44	2.38	1.65	10%	22%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Hydrodynamics ASCR	28	93	3.32	0.58	0.66	1.13	57%	23%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Forestry and Game Management Research Institute	28	145	5.18	0.60	0.57	0.95	29%	29%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Animal Physiology and Genetics ASCR	28	278	9.93	1.11	1.08	0.97	21%	25%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Tomas Bata University in Zlin	27	55	2.04	0.35	0.33	0.96	37%	26%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Research Institute Silva Taroucy	27	202	7.48	1.44	1.37	0.95	26%	15%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Jan Evangelista Purkyně University in Ústí nad Labem	23	213	9.26	1.67	1.36	0.82	39%	14%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Biophysics ASCR	22	149	6.77	0.77	0.66	0.87	27%	33%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	National Museum	22	85	3.86	0.87	0.89	1.02	36%	25%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Rock Structure and Mechanics ASCR	22	76	3.45	0.51	0.48	0.93	45%	14%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Veterinary Research Institute	20	399	19.95	1.33	1.67	1.26	10%	24%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	INST FOREST ECOSYST RES LTD	19	113	5.95	1.11	1.60	1.43	21%	31%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Geophysics ASCR	18	122	6.78	1.21	0.88	0.73	33%	23%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	ENKI	17	120	7.06	2.29	1.67	0.73	41%	10%

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ENVIRONMENTAL SCIENCES AND TECHNOLOGY	University of Defense	15	55	3.67	0.79	0.68	0.86	33%	49%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Macromolecular Chemistry ASCR	15	56	3.73	0.66	0.90	1.36	33%	23%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	University of Ostrava	14	70	5.00	0.77	0.67	0.88	29%	46%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	ASCR unresolved	14	120	8.57	0.69	0.86	1.25	43%	25%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Physics ASCR	14	25	1.79	0.29	0.27	0.92	50%	70%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Analytical Chemistry ASCR	13	101	7.77	1.17	0.98	0.84	8%	27%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Agency for Nature Conservation and Landscape Protection of the Czech Republic	12	65	5.42	0.98	0.83	0.85	42%	26%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	TOCOEN LTD	12	117	9.75	1.19	1.08	0.91	17%	37%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	ENVIRONM MEASURING SYST INC	10	191	19.10	1.41	1.54	1.10	10%	27%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	State Office for Nuclear Safety	10	12	1.20	0.38	0.19	0.50	50%	48%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Research Institute of Soil and Water Conservation	9	12	1.33	0.41	0.17	0.42	33%	25%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Animal Science	8	27	3.38	0.55	0.36	0.66	38%	25%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Computer Science ASCR	8	51	6.38	1.99	2.37	1.19	50%	14%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Central Institute for Supervising & Testing in Agriculture	7	25	3.57	0.90	0.48	0.54	14%	26%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	RADON VOS CORP	7	17	2.43	0.81	0.31	0.38	57%	23%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Ministry of the Environment	7	49	7.00	0.79	0.50	0.63	29%	8%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Thermomechanics ASCR	7	7	1.00	0.23	0.18	0.75	71%	22%

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Field	Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
TECHNOLOGY									
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	ECOL & USE WETLANDS	7	159	22.71	2.26	1.69	0.75	0%	3%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Military Geography and Hydrometeorology Office Dobruska	6	5	0.83	0.49	0.27	0.55	50%	44%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Physiology ASCR	6	4	0.67	0.54	0.16	0.29	50%	64%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	MUSEUM KRKONOSE	5	13	2.60	0.66	0.42	0.63	20%	48%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Institute of Physics of Materials ASCR	5	29	5.80	1.22	1.48	1.21	20%	36%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Research Institute of Inorganic Chemistry	5	42	8.40	0.74	0.92	1.23	20%	11%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	REG MUSEUM	5	11	2.20	0.29	0.31	1.06	20%	15%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Moravian Museum	5	15	3.00	0.45	0.19	0.42	20%	40%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	LAB ECOL MEASUREMENT SYST INC	5	141	28.20	1.84	2.48	1.34	0%	32%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	HYDROPROJEKT CZ AS	5	10	2.00	0.24	0.17	0.69	20%	17%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	University of Economics Prague	5	6	1.20	0.17	0.12	0.72	40%	0%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	DEKONTA CO	5	10	2.00	0.93	0.87	0.94	40%	17%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	Technical University of Liberec	5	3	0.60	0.19	0.17	0.92	60%	63%
ENVIRONMENTAL SCIENCES AND TECHNOLOGY	CERGE-Economics Institute ASCR	5	28	5.60	1.98	1.24	0.63	40%	13%
GENERAL AND INDUSTRIAL ENGINEERING	Academy of Sciences (global)	113	305	2.70	0.68	0.80	1.18	43%	34%
GENERAL AND INDUSTRIAL ENGINEERING	Czech Technical University in Prague	59	123	2.08	0.89	0.70	0.78	53%	39%

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Field	Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
GENERAL AND INDUSTRIAL ENGINEERING	Brno University of Technology	41	86	2.10	0.71	0.55	0.78	46%	17%
GENERAL AND INDUSTRIAL ENGINEERING	VSB-Technical University of Ostrava	41	97	2.37	0.62	0.62	1.00	46%	34%
GENERAL AND INDUSTRIAL ENGINEERING	Charles University in Prague	38	89	2.34	0.66	0.78	1.17	45%	41%
GENERAL AND INDUSTRIAL ENGINEERING	Institute of Physics ASCR	21	76	3.62	0.95	1.44	1.51	52%	24%
GENERAL AND INDUSTRIAL ENGINEERING	Institute of Mathematics ASCR	19	43	2.26	0.40	0.54	1.35	58%	40%
GENERAL AND INDUSTRIAL ENGINEERING	University of West Bohemia in Plzen	16	38	2.38	0.66	0.66	1.00	31%	16%
GENERAL AND INDUSTRIAL ENGINEERING	Institute of Scientific Instruments ASCR	15	37	2.47	1.05	0.93	0.88	47%	34%
GENERAL AND INDUSTRIAL ENGINEERING	Institute of Physics of Materials ASCR	12	28	2.33	0.85	0.57	0.67	17%	48%
GENERAL AND INDUSTRIAL ENGINEERING	Institute of Thermomechanics ASCR	11	13	1.18	0.26	0.37	1.42	64%	35%
GENERAL AND INDUSTRIAL ENGINEERING	Institute of Macromolecular Chemistry ASCR	7	13	1.86	1.65	1.67	1.01	29%	35%
GENERAL AND INDUSTRIAL ENGINEERING	Czech Metrology Institute	7	3	0.43	0.78	0.48	0.62	71%	50%
GENERAL AND INDUSTRIAL ENGINEERING	Nuclear Physics Institute ASCR	6	5	0.83	1.18	0.24	0.20	67%	29%
GENERAL AND INDUSTRIAL ENGINEERING	Czech University of Life Sciences Prague	6	9	1.50	0.90	0.75	0.83	83%	0%
GENERAL AND INDUSTRIAL ENGINEERING	Technical University of Liberec	6	5	0.83	0.41	0.25	0.60	67%	44%
HEALTH SCIENCES	Charles University in Prague	135	724	5.36	0.72	0.56	0.78	28%	23%
HEALTH SCIENCES	Academy of Sciences (global)	58	274	4.72	0.57	0.50	0.88	24%	30%
HEALTH SCIENCES	Masaryk University	22	86	3.91	0.39	0.33	0.84	36%	36%
HEALTH SCIENCES	Institute of Computer Science ASCR	20	37	1.85	0.47	0.33	0.70	30%	21%

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Field	Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
HEALTH SCIENCES	Prague Psychiatric Centre	20	133	6.65	0.54	0.52	0.97	15%	30%
HEALTH SCIENCES	Palacky University Olomouc	19	51	2.68	0.87	0.59	0.68	53%	14%
HEALTH SCIENCES	Institute for Postgraduate Medical Education	12	97	8.08	0.99	1.00	1.01	33%	28%
HEALTH SCIENCES	Institute of Experimental Medicine ASCR	11	86	7.82	0.77	0.96	1.25	27%	26%
HEALTH SCIENCES	Institute of Physiology ASCR	10	48	4.80	0.33	0.28	0.85	20%	38%
HEALTH SCIENCES	Faculty Hospital Na Bulovce	9	118	13.11	0.72	1.07	1.49	22%	27%
HEALTH SCIENCES	ASCR unresolved	9	24	2.67	0.61	0.28	0.46	11%	33%
HEALTH SCIENCES	National Institute of Public Health and regional hygienic stations	8	16	2.00	0.44	0.29	0.65	38%	11%
HEALTH SCIENCES	General University Hospital Prague	7	16	2.29	0.56	0.47	0.84	29%	20%
HEALTH SCIENCES	Institute for Clinical and Experimental Medicine	6	9	1.50	0.26	0.19	0.74	33%	0%
HEALTH SCIENCES	Czech Technical University in Prague	6	6	1.00	0.32	0.27	0.82	67%	14%
HEALTH SCIENCES	University Hospital Brno	6	15	2.50	0.42	0.40	0.95	50%	17%
HEALTH SCIENCES	University Hospital Hradec Kralove	5	20	4.00	1.11	0.84	0.76	40%	20%
HISTORY, PHILOSOPHY AND RELIGION	Academy of Sciences (global)	217	134	0.62	0.91	0.47	0.51	73%	31%
HISTORY, PHILOSOPHY AND RELIGION	Institute of Philosophy ASCR	165	51	0.31	1.23	0.28	0.23	78%	34%
HISTORY, PHILOSOPHY AND RELIGION	Charles University in Prague	153	52	0.34	0.47	0.25	0.54	78%	36%
HISTORY, PHILOSOPHY AND RELIGION	Masaryk University	82	29	0.35	0.70	0.30	0.43	76%	37%
HISTORY, PHILOSOPHY AND RELIGION	Palacky University Olomouc	47	8	0.17	0.41	0.18	0.43	87%	11%
HISTORY, PHILOSOPHY AND RELIGION	Institute of Archaeology ASCR	21	48	2.29	0.76	0.99	1.30	57%	24%
HISTORY, PHILOSOPHY AND RELIGION	University of South Bohemia in Ceske Budejovice	20	2	0.10	0.60	0.19	0.31	90%	33%
HISTORY, PHILOSOPHY AND RELIGION	VSB-Technical University of Ostrava	14	3	0.21	1.24	0.17	0.14	86%	67%
HISTORY, PHILOSOPHY AND RELIGION	University of Economics Prague	13	4	0.31	1.09	0.19	0.18	77%	0%
HISTORY, PHILOSOPHY AND RELIGION	University of West Bohemia in Plzen	10	3	0.30	0.47	0.50	1.06	70%	50%
HISTORY, PHILOSOPHY AND RELIGION	ASCR unresolved	9	2	0.22	0.35	0.17	0.48	78%	67%

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Field	Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
HISTORY, PHILOSOPHY AND RELIGION	Moravian Museum	7	16	2.29	0.87	0.90	1.03	29%	38%
HISTORY, PHILOSOPHY AND RELIGION	National Museum	5	23	4.60	1.39	1.58	1.13	40%	8%
HISTORY, PHILOSOPHY AND RELIGION	GYMNAZIUM OHRADNI	5	1	0.20	0.56	0.12	0.22	80%	0%
HISTORY, PHILOSOPHY AND RELIGION	T.G. Masaryk Water Research Institute	5	2	0.40	1.60	0.35	0.22	60%	67%
HISTORY, PHILOSOPHY AND RELIGION	University of Hradec Kralove	5	1	0.20	0.97	0.20	0.20	80%	0%
HISTORY, PHILOSOPHY AND RELIGION	Institute of Contemporary History ASCR	5	2	0.40	0.91	0.49	0.53	60%	33%
INFORMATION AND COMMUNICATION SCIENCES	Charles University in Prague	10	47	4.70	0.93	0.69	0.74	40%	22%
INFORMATION AND COMMUNICATION SCIENCES	Masaryk University	7	3	0.43	0.33	0.52	1.59	86%	67%
INSTRUMENTS AND INSTRUMENTATION	Academy of Sciences (global)	697	3243	4.65	1.02	0.80	0.78	35%	54%
INSTRUMENTS AND INSTRUMENTATION	Czech Technical University in Prague	296	984	3.32	1.07	0.91	0.85	46%	51%
INSTRUMENTS AND INSTRUMENTATION	Institute of Physics ASCR	234	1284	5.49	1.34	0.96	0.72	32%	65%
INSTRUMENTS AND INSTRUMENTATION	Charles University in Prague	215	904	4.20	1.08	0.77	0.71	31%	69%
INSTRUMENTS AND INSTRUMENTATION	Nuclear Physics Institute ASCR	149	312	2.09	0.63	0.37	0.59	45%	61%
INSTRUMENTS AND INSTRUMENTATION	Institute of Scientific Instruments ASCR	79	170	2.15	0.57	0.46	0.80	42%	51%
INSTRUMENTS AND INSTRUMENTATION	Institute of Photonics and Electronics ASCR	78	883	11.32	1.38	1.84	1.33	23%	22%
INSTRUMENTS AND INSTRUMENTATION	Masaryk University	75	600	8.00	0.94	1.14	1.21	31%	34%
INSTRUMENTS AND INSTRUMENTATION	Institute of Chemical Technology Prague	67	368	5.49	1.02	0.94	0.92	31%	32%
INSTRUMENTS AND INSTRUMENTATION	Brno University of Technology	59	150	2.54	0.64	0.64	0.99	47%	50%
INSTRUMENTS AND INSTRUMENTATION	Czech Metrology Institute	42	37	0.88	0.33	0.20	0.59	64%	57%
INSTRUMENTS AND INSTRUMENTATION	Mendel University in Brno	32	79	2.47	1.18	0.90	0.76	47%	75%
INSTRUMENTS AND INSTRUMENTATION	University of Veterinary and Pharmaceutical Sciences Brno	27	44	1.63	0.70	0.58	0.82	44%	76%
INSTRUMENTS AND INSTRUMENTATION	ASCR unresolved	26	115	4.42	0.95	0.67	0.70	15%	53%
INSTRUMENTS AND INSTRUMENTATION	J. Heyrovsky Institute of Physical Chemistry ASCR	23	88	3.83	0.64	0.54	0.85	26%	48%
INSTRUMENTS AND INSTRUMENTATION	Technical University of Liberec	21	18	0.86	0.52	0.27	0.52	57%	80%



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INSTRUMENTS AND INSTRUMENTATION	Institute of Plasma Physics ASCR	19	36	1.89	0.62	0.40	0.65	37%	60%
INSTRUMENTS AND INSTRUMENTATION	University of South Bohemia in Ceske Budejovice	17	25	1.47	0.74	0.51	0.69	41%	43%
INSTRUMENTS AND INSTRUMENTATION	Institute of Physiology ASCR	16	107	6.69	1.03	0.80	0.77	31%	35%
INSTRUMENTS AND INSTRUMENTATION	CRYTUR Ltd	14	179	12.79	4.03	2.34	0.58	7%	42%
INSTRUMENTS AND INSTRUMENTATION	Palacky University Olomouc	14	48	3.43	0.69	0.61	0.89	29%	56%
INSTRUMENTS AND INSTRUMENTATION	Tomas Bata University in Zlin	13	22	1.69	1.14	0.77	0.67	46%	73%
INSTRUMENTS AND INSTRUMENTATION	VSB-Technical University of Ostrava	13	24	1.85	0.52	0.62	1.19	54%	40%
INSTRUMENTS AND INSTRUMENTATION	Institute of Organic Chemistry and Biochemistry ASCR	12	44	3.67	0.64	0.65	1.01	33%	29%
INSTRUMENTS AND INSTRUMENTATION	Institute of Macromolecular Chemistry ASCR	12	201	16.75	1.74	2.22	1.28	0%	23%
INSTRUMENTS AND INSTRUMENTATION	Institute of Thermomechanics ASCR	12	6	0.50	0.27	0.23	0.83	75%	76%
INSTRUMENTS AND INSTRUMENTATION	University of Pardubice	11	27	2.45	0.39	0.44	1.12	36%	31%
INSTRUMENTS AND INSTRUMENTATION	Institute of Biophysics ASCR	9	24	2.67	0.77	0.43	0.56	22%	73%
INSTRUMENTS AND INSTRUMENTATION	Institute of Information Theory and Automation ASCR	9	14	1.56	0.24	0.25	1.05	33%	58%
INSTRUMENTS AND INSTRUMENTATION	Jan Evangelista Purkyne University in Usti nad Labem	8	4	0.50	0.26	0.25	0.98	88%	50%
INSTRUMENTS AND INSTRUMENTATION	Nuclear Research Institute Rez	8	8	1.00	0.33	0.19	0.56	75%	60%
INSTRUMENTS AND INSTRUMENTATION	Institute of Theoretical and Applied Mechanics ASCR	8	18	2.25	0.82	0.52	0.64	38%	51%
INSTRUMENTS AND INSTRUMENTATION	National Institute of Public Health and regional hygienic stations	8	22	2.75	1.15	0.42	0.37	38%	15%
INSTRUMENTS AND INSTRUMENTATION	Institute of Experimental Medicine ASCR	8	75	9.38	1.21	0.86	0.71	0%	5%
INSTRUMENTS AND INSTRUMENTATION	Institute of Microbiology ASCR	8	15	1.88	0.18	0.12	0.69	50%	71%
INSTRUMENTS AND INSTRUMENTATION	University of Defense	8	4	0.50	0.86	0.46	0.53	50%	88%
INSTRUMENTS AND INSTRUMENTATION	Institute of Molecular Genetics ASCR	7	68	9.71	1.97	1.03	0.52	14%	17%
INSTRUMENTS AND INSTRUMENTATION	Military Geography and Hydrometeorology	7	6	0.86	0.32	0.18	0.55	43%	80%

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Field	Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
	Office Dobruska								
INSTRUMENTS AND INSTRUMENTATION	Institute of Chemical Process Fundamentals ASCR	7	14	2.00	0.37	0.40	1.08	29%	39%
INSTRUMENTS AND INSTRUMENTATION	Czech Geological Survey	6	23	3.83	0.70	0.56	0.80	0%	36%
INSTRUMENTS AND INSTRUMENTATION	Institute of Physics of Materials ASCR	6	9	1.50	0.56	0.52	0.94	50%	70%
INSTRUMENTS AND INSTRUMENTATION	Biology Centre ASCR	5	6	1.20	0.34	0.27	0.80	40%	45%
INSTRUMENTS AND INSTRUMENTATION	University of West Bohemia in Plzen	5	11	2.20	1.57	0.82	0.52	40%	42%
INSTRUMENTS AND INSTRUMENTATION	Institute of Computer Science ASCR	5	13	2.60	1.79	0.64	0.36	60%	59%
INSTRUMENTS AND INSTRUMENTATION	GRP PRAHA	5	48	9.60	2.04	1.16	0.57	0%	62%
LANGUAGE AND LINGUISTICS	Charles University in Prague	13	6	0.46	0.20	0.19	0.94	77%	0%
LANGUAGE AND LINGUISTICS	Academy of Sciences (global)	10	4	0.40	0.27	0.19	0.69	80%	20%
LANGUAGE AND LINGUISTICS	Institute of the Czech Language ASCR	9	4	0.44	0.27	0.19	0.69	78%	0%
LANGUAGE AND LINGUISTICS	Masaryk University	9	2	0.22	2.64	0.48	0.18	89%	33%
LANGUAGE AND LINGUISTICS	Palacky University Olomouc	6	16	2.67	0.86	1.84	2.13	83%	24%
LAW AND CRIMINOLOGY	Charles University in Prague	28	103	3.68	0.87	0.78	0.89	29%	13%
LAW AND CRIMINOLOGY	Institute of Criminalistics Praha	11	70	6.36	1.21	1.41	1.17	18%	25%
LAW AND CRIMINOLOGY	Institute of Chemical Technology Prague	6	31	5.17	0.75	0.77	1.03	17%	9%
LAW AND CRIMINOLOGY	General University Hospital Prague	5	11	2.20	0.36	0.37	1.04	20%	21%
LAW AND CRIMINOLOGY	Masaryk University	5	15	3.00	0.88	0.73	0.83	60%	12%
LAW AND CRIMINOLOGY	Palacky University Olomouc	5	14	2.80	0.61	0.35	0.57	40%	13%
LITERATURE	Charles University in Prague	124	21	0.17	1.11	0.95	0.85	89%	40%
LITERATURE	Academy of Sciences (global)	90	18	0.20	1.05	0.98	0.94	86%	28%
LITERATURE	Institute of Czech Literature ASCR	81	17	0.21	1.12	1.08	0.96	85%	29%
LITERATURE	Masaryk University	37	7	0.19	1.20	0.80	0.67	92%	22%
LITERATURE	University of South Bohemia in Ceske Budejovice	20	2	0.10	0.90	0.67	0.74	90%	50%
LITERATURE	Palacky University Olomouc	17	0	0.00	0.00	0.00	0.52	100%	

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LITERATURE	University of Ostrava	12	3	0.25	1.32	0.94	0.71	83%	25%
LITERATURE	University of Hradec Kralove	7	0	0.00	0.00	0.00	1.11	100%	
MANAGEMENT AND PLANNING	Academy of Sciences (global)	69	301	4.36	1.01	0.93	0.92	39%	24%
MANAGEMENT AND PLANNING	Charles University in Prague	44	287	6.52	1.20	1.33	1.11	41%	26%
MANAGEMENT AND PLANNING	Institute of Information Theory and Automation ASCR	31	107	3.45	0.82	0.87	1.07	39%	26%
MANAGEMENT AND PLANNING	VSB-Technical University of Ostrava	18	68	3.78	0.99	0.84	0.85	33%	38%
MANAGEMENT AND PLANNING	Technical University of Liberec	18	5	0.28	0.41	0.20	0.48	78%	17%
MANAGEMENT AND PLANNING	Institute of Computer Science ASCR	17	75	4.41	0.88	0.77	0.88	29%	23%
MANAGEMENT AND PLANNING	Czech Technical University in Prague	14	19	1.36	0.42	0.42	0.98	43%	41%
MANAGEMENT AND PLANNING	University of Pardubice	13	0	0.00	0.00	0.00	0.18	100%	100%
MANAGEMENT AND PLANNING	University of Hradec Kralove	11	2	0.18	0.20	0.22	1.12	91%	78%
MANAGEMENT AND PLANNING	Institute of Mathematics ASCR	10	60	6.00	1.96	1.59	0.81	40%	34%
MANAGEMENT AND PLANNING	Masaryk University	9	1	0.11	0.38	0.23	0.60	89%	50%
MANAGEMENT AND PLANNING	University of Economics Prague	9	30	3.33	1.26	0.99	0.79	56%	3%
MANAGEMENT AND PLANNING	Tomas Bata University in Zlin	8	4	0.50	1.60	0.68	0.43	63%	20%
MANAGEMENT AND PLANNING	Brno University of Technology	8	26	3.25	0.74	0.56	0.76	38%	7%
MANAGEMENT AND PLANNING	University of West Bohemia in Plzen	6	0	0.00	0.00	0.00	0.46	100%	100%
MANAGEMENT AND PLANNING	CERGE-Economics Institute ASCR	5	11	2.20	0.38	0.30	0.78	40%	21%
MATHEMATICS & STATISTICAL SCIENCES	Academy of Sciences (global)	1572	5679	3.61	1.15	0.99	0.86	42%	33%
MATHEMATICS & STATISTICAL SCIENCES	Charles University in Prague	1498	3893	2.60	1.00	0.89	0.89	49%	35%
MATHEMATICS & STATISTICAL SCIENCES	Institute of Mathematics ASCR	864	2494	2.89	1.12	1.00	0.89	46%	34%
MATHEMATICS & STATISTICAL SCIENCES	Czech Technical University in Prague	323	695	2.15	0.97	0.65	0.67	56%	35%
MATHEMATICS & STATISTICAL SCIENCES	Masaryk University	322	601	1.87	0.83	0.66	0.80	46%	41%
MATHEMATICS & STATISTICAL SCIENCES	Palacky University Olomouc	268	460	1.72	0.97	0.74	0.76	61%	42%
MATHEMATICS & STATISTICAL SCIENCES	Institute of Computer Science ASCR	245	1214	4.96	1.31	1.42	1.08	35%	29%
MATHEMATICS & STATISTICAL SCIENCES	Institute of Information Theory and	231	1198	5.19	1.40	1.17	0.84	33%	32%

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	Automation ASCR								
MATHEMATICS & STATISTICAL SCIENCES	University of West Bohemia in Plzen	201	620	3.08	1.26	1.10	0.88	53%	25%
MATHEMATICS & STATISTICAL SCIENCES	VSB-Technical University of Ostrava	158	488	3.09	1.20	1.20	1.00	46%	40%
MATHEMATICS & STATISTICAL SCIENCES	Brno University of Technology	145	202	1.39	0.57	0.39	0.68	58%	45%
MATHEMATICS & STATISTICAL SCIENCES	Silesian University in Opava	88	227	2.58	0.91	0.82	0.90	40%	30%
MATHEMATICS & STATISTICAL SCIENCES	Institute of Thermomechanics ASCR	64	90	1.41	0.60	0.35	0.58	69%	20%
MATHEMATICS & STATISTICAL SCIENCES	Technical University of Liberec	52	73	1.40	0.87	0.57	0.65	63%	24%
MATHEMATICS & STATISTICAL SCIENCES	Institute of Chemical Technology Prague	39	103	2.64	0.48	0.47	0.98	36%	42%
MATHEMATICS & STATISTICAL SCIENCES	University of Ostrava	36	83	2.31	1.30	1.19	0.91	56%	34%
MATHEMATICS & STATISTICAL SCIENCES	Institute of Geonics ASCR	32	69	2.16	0.52	0.66	1.27	50%	52%
MATHEMATICS & STATISTICAL SCIENCES	ASCR unresolved	31	120	3.87	0.85	0.71	0.83	32%	26%
MATHEMATICS & STATISTICAL SCIENCES	J. Heyrovsky Institute of Physical Chemistry ASCR	28	148	5.29	0.91	0.51	0.56	18%	40%
MATHEMATICS & STATISTICAL SCIENCES	Nuclear Physics Institute ASCR	27	90	3.33	1.85	1.08	0.58	44%	40%
MATHEMATICS & STATISTICAL SCIENCES	University of Hradec Kralove	24	23	0.96	0.69	0.56	0.81	67%	63%
MATHEMATICS & STATISTICAL SCIENCES	Czech University of Life Sciences Prague	22	89	4.05	1.36	1.24	0.91	32%	49%
MATHEMATICS & STATISTICAL SCIENCES	Institute of Chemical Process Fundamentals ASCR	19	164	8.63	1.62	0.78	0.48	16%	51%
MATHEMATICS & STATISTICAL SCIENCES	University of Economics Prague	16	32	2.00	0.61	0.39	0.64	56%	20%
MATHEMATICS & STATISTICAL SCIENCES	Jan Evangelista Purkyně University in Ústí nad Labem	9	9	1.00	1.03	0.84	0.82	44%	31%
MATHEMATICS & STATISTICAL SCIENCES	Astronomical Institute ASCR	8	36	4.50	1.26	0.48	0.38	50%	35%
MATHEMATICS & STATISTICAL SCIENCES	Mendel University in Brno	8	9	1.13	0.55	0.51	0.93	63%	0%
MATHEMATICS & STATISTICAL SCIENCES	University of South Bohemia in České Budějovice	7	11	1.57	0.61	0.43	0.70	43%	8%
MATHEMATICS & STATISTICAL SCIENCES	Institute of Organic Chemistry and Biochemistry ASCR	7	56	8.00	1.25	1.12	0.90	29%	10%
MATHEMATICS & STATISTICAL SCIENCES	Institute of Physics ASCR	6	10	1.67	0.96	0.58	0.60	50%	29%
MATHEMATICS & STATISTICAL SCIENCES	Institute of Hydrodynamics ASCR	5	8	1.60	1.67	0.35	0.21	60%	11%

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Field	Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
MATHEMATICS & STATISTICAL SCIENCES	Institute of Theoretical and Applied Mechanics ASCR	5	1	0.20	0.06	0.03	0.43	80%	0%
MATHEMATICS & STATISTICAL SCIENCES	Institute of Physiology ASCR	5	11	2.20	0.48	0.42	0.87	40%	39%
MATHEMATICS & STATISTICAL SCIENCES	Tomas Bata University in Zlin	5	5	1.00	1.33	0.69	0.52	40%	17%
MECHANICAL ENGINEERING AND AEROSPACE	Academy of Sciences (global)	397	1193	3.01	0.71	0.63	0.88	47%	33%
MECHANICAL ENGINEERING AND AEROSPACE	Czech Technical University in Prague	168	254	1.51	0.55	0.34	0.62	58%	43%
MECHANICAL ENGINEERING AND AEROSPACE	Charles University in Prague	101	375	3.71	1.12	0.72	0.64	44%	37%
MECHANICAL ENGINEERING AND AEROSPACE	Brno University of Technology	88	294	3.34	0.92	0.79	0.87	35%	29%
MECHANICAL ENGINEERING AND AEROSPACE	Institute of Thermomechanics ASCR	83	127	1.53	0.51	0.35	0.68	54%	34%
MECHANICAL ENGINEERING AND AEROSPACE	Institute of Mathematics ASCR	63	105	1.67	0.47	0.35	0.74	68%	40%
MECHANICAL ENGINEERING AND AEROSPACE	Institute of Physics ASCR	50	268	5.36	1.01	0.93	0.92	30%	36%
MECHANICAL ENGINEERING AND AEROSPACE	Institute of Chemical Process Fundamentals ASCR	40	142	3.55	0.61	0.76	1.25	35%	26%
MECHANICAL ENGINEERING AND AEROSPACE	Institute of Theoretical and Applied Mechanics ASCR	34	103	3.03	0.74	0.61	0.83	44%	27%
MECHANICAL ENGINEERING AND AEROSPACE	Institute of Physics of Materials ASCR	34	161	4.74	1.54	1.03	0.67	26%	34%
MECHANICAL ENGINEERING AND AEROSPACE	Institute of Chemical Technology Prague	27	44	1.63	0.33	0.27	0.82	44%	59%
MECHANICAL ENGINEERING AND AEROSPACE	Institute of Hydrodynamics ASCR	27	90	3.33	0.71	0.77	1.10	48%	36%
MECHANICAL ENGINEERING AND AEROSPACE	University of West Bohemia in Plzen	24	23	0.96	0.36	0.26	0.73	63%	38%
MECHANICAL ENGINEERING AND AEROSPACE	VSB-Technical University of Ostrava	21	35	1.67	0.51	0.43	0.84	52%	39%

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MECHANICAL ENGINEERING AND AEROSPACE	Tomas Bata University in Zlin	19	36	1.89	0.62	0.74	1.18	42%	48%
MECHANICAL ENGINEERING AND AEROSPACE	University of Pardubice	18	99	5.50	0.78	0.73	0.93	17%	50%
MECHANICAL ENGINEERING AND AEROSPACE	Technical University of Liberec	15	22	1.47	0.33	0.30	0.90	47%	27%
MECHANICAL ENGINEERING AND AEROSPACE	Institute of Information Theory and Automation ASCR	14	32	2.29	1.23	0.54	0.44	36%	43%
MECHANICAL ENGINEERING AND AEROSPACE	Palacky University Olomouc	12	7	0.58	0.51	0.29	0.57	75%	53%
MECHANICAL ENGINEERING AND AEROSPACE	Institute of Macromolecular Chemistry ASCR	12	53	4.42	0.35	0.72	2.04	8%	21%
MECHANICAL ENGINEERING AND AEROSPACE	Masaryk University	11	59	5.36	1.04	0.95	0.92	18%	19%
MECHANICAL ENGINEERING AND AEROSPACE	Institute of Geonics ASCR	6	15	2.50	0.28	0.42	1.48	50%	29%
MECHANICAL ENGINEERING AND AEROSPACE	EVECO BRNO LTD	6	25	4.17	1.43	1.46	1.02	33%	24%
MECHANICAL ENGINEERING AND AEROSPACE	Institute of Computer Science ASCR	6	22	3.67	1.14	0.76	0.67	50%	19%
MECHANICAL ENGINEERING AND AEROSPACE	Astronomical Institute ASCR	5	0	0.00	0.00	0.00	0.65	100%	100%
MECHANICAL ENGINEERING AND AEROSPACE	Institute of Atmospheric Physics ASCR	5	11	2.20	0.50	0.35	0.69	60%	35%
MECHANICAL ENGINEERING AND AEROSPACE	Nuclear Physics Institute ASCR	5	14	2.80	2.03	2.37	1.17	40%	26%
MECHANICAL ENGINEERING AND AEROSPACE	ASCR unresolved	5	50	10.00	1.70	1.59	0.94	40%	11%
MECHANICAL ENGINEERING AND AEROSPACE	Institute of Geophysics ASCR	5	10	2.00	0.41	0.27	0.66	40%	66%
MULTIDISCIPLINARY JOURNALS	Academy of Sciences (global)	214	5354	25.02	0.65	0.71	1.10	17%	22%
MULTIDISCIPLINARY JOURNALS	Charles University in Prague	141	3588	25.45	0.63	0.81	1.29	16%	23%
MULTIDISCIPLINARY JOURNALS	Institute of Physiology ASCR	37	797	21.54	0.47	0.45	0.96	8%	22%

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MULTIDISCIPLINARY JOURNALS	Palacky University Olomouc	25	1153	46.12	1.25	1.92	1.54	20%	16%
MULTIDISCIPLINARY JOURNALS	Masaryk University	23	800	34.78	1.43	1.72	1.20	30%	20%
MULTIDISCIPLINARY JOURNALS	University of South Bohemia in Ceske Budejovice	23	462	20.09	0.71	0.94	1.32	30%	22%
MULTIDISCIPLINARY JOURNALS	Biology Centre ASCR	21	577	27.48	0.74	0.97	1.31	14%	20%
MULTIDISCIPLINARY JOURNALS	Institute of Microbiology ASCR	19	528	27.79	0.58	0.67	1.17	11%	21%
MULTIDISCIPLINARY JOURNALS	Institute of Experimental Botany ASCR	17	667	39.24	1.51	1.83	1.21	18%	17%
MULTIDISCIPLINARY JOURNALS	Astronomical Institute ASCR	16	224	14.00	0.22	0.57	2.54	6%	40%
MULTIDISCIPLINARY JOURNALS	Institute of Organic Chemistry and Biochemistry ASCR	16	339	21.19	0.68	0.87	1.29	25%	33%
MULTIDISCIPLINARY JOURNALS	Institute of Molecular Genetics ASCR	15	938	62.53	1.15	1.88	1.64	7%	12%
MULTIDISCIPLINARY JOURNALS	Institute of Physics ASCR	13	434	33.38	0.56	1.11	1.97	8%	28%
MULTIDISCIPLINARY JOURNALS	ASCR unresolved	11	114	10.36	0.54	0.32	0.59	27%	19%
MULTIDISCIPLINARY JOURNALS	University of Defense	10	10	1.00	0.78	0.06	0.07	70%	58%
MULTIDISCIPLINARY JOURNALS	Institute of Chemical Technology Prague	9	87	9.67	0.52	0.27	0.52	22%	37%
MULTIDISCIPLINARY JOURNALS	Institute of Experimental Medicine ASCR	8	224	28.00	0.72	0.67	0.94	0%	23%
MULTIDISCIPLINARY JOURNALS	Institute of Rheumatology	7	16	2.29	0.29	0.05	0.18	14%	11%
MULTIDISCIPLINARY JOURNALS	Institute of Botany ASCR	7	69	9.86	0.37	0.51	1.36	43%	28%
MULTIDISCIPLINARY JOURNALS	Institute for Clinical and Experimental Medicine	7	64	9.14	0.67	0.18	0.26	14%	26%
MULTIDISCIPLINARY JOURNALS	Czech Technical University in Prague	7	64	9.14	0.63	0.31	0.50	71%	40%
MULTIDISCIPLINARY JOURNALS	J. Heyrovsky Institute of Physical Chemistry ASCR	5	287	57.40	0.91	0.99	1.09	20%	20%
MULTIDISCIPLINARY JOURNALS	Institute of Macromolecular Chemistry ASCR	5	24	4.80	0.59	0.10	0.16	20%	33%
MULTIDISCIPLINARY JOURNALS	Institute of Thermomechanics ASCR	5	15	3.00	0.26	0.11	0.41	60%	42%
MULTIDISCIPLINARY JOURNALS	Institute of Biophysics ASCR	5	66	13.20	0.60	0.69	1.15	0%	42%
MULTIDISCIPLINARY JOURNALS	Brno University of Technology	5	3	0.60	0.11	0.01	0.12	80%	70%

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MULTIDISCIPLINARY JOURNALS	Institute of Endocrinology	5	58	11.60	1.12	0.25	0.23	0%	3%
MULTIDISCIPLINARY JOURNALS	Institute of Vertebrate Biology ASCR	5	48	9.60	0.79	0.31	0.40	60%	16%
PHYSICS AND MATERIALS SCIENCE	Academy of Sciences (global)	11954	72658	6.08	0.89	0.83	0.93	34%	38%
PHYSICS AND MATERIALS SCIENCE	Institute of Physics ASCR	6012	37288	6.20	0.85	0.82	0.97	33%	39%
PHYSICS AND MATERIALS SCIENCE	Charles University in Prague	4807	25921	5.39	0.80	0.72	0.91	35%	41%
PHYSICS AND MATERIALS SCIENCE	Czech Technical University in Prague	1893	6060	3.20	0.83	0.54	0.65	47%	41%
PHYSICS AND MATERIALS SCIENCE	Nuclear Physics Institute ASCR	1413	9244	6.54	1.01	0.87	0.86	34%	41%
PHYSICS AND MATERIALS SCIENCE	Institute of Chemical Technology Prague	1068	3402	3.19	0.70	0.49	0.70	40%	44%
PHYSICS AND MATERIALS SCIENCE	Masaryk University	1065	5728	5.38	0.88	0.77	0.88	37%	29%
PHYSICS AND MATERIALS SCIENCE	J. Heyrovsky Institute of Physical Chemistry ASCR	1033	9940	9.62	0.95	1.02	1.07	21%	33%
PHYSICS AND MATERIALS SCIENCE	Institute of Physics of Materials ASCR	879	3972	4.52	0.80	0.71	0.89	37%	35%
PHYSICS AND MATERIALS SCIENCE	Palacky University Olomouc	763	3612	4.73	0.75	0.66	0.89	37%	34%
PHYSICS AND MATERIALS SCIENCE	Brno University of Technology	759	1935	2.55	0.70	0.46	0.65	47%	39%
PHYSICS AND MATERIALS SCIENCE	University of Pardubice	647	2412	3.73	0.77	0.59	0.76	36%	40%
PHYSICS AND MATERIALS SCIENCE	Institute of Plasma Physics ASCR	517	1644	3.18	0.95	0.47	0.49	49%	47%
PHYSICS AND MATERIALS SCIENCE	Institute of Macromolecular Chemistry ASCR	476	3023	6.35	0.93	0.96	1.03	31%	34%
PHYSICS AND MATERIALS SCIENCE	Institute of Organic Chemistry and Biochemistry ASCR	389	3830	9.85	1.54	1.78	1.16	23%	30%
PHYSICS AND MATERIALS SCIENCE	Institute of Inorganic Chemistry ASCR	385	1240	3.22	0.65	0.54	0.84	39%	41%
PHYSICS AND MATERIALS SCIENCE	Institute of Chemical Process Fundamentals ASCR	358	1913	5.34	0.71	0.68	0.97	26%	43%
PHYSICS AND MATERIALS SCIENCE	Institute of Photonics and Electronics ASCR	356	1398	3.93	0.71	0.63	0.89	40%	31%
PHYSICS AND MATERIALS SCIENCE	VSB-Technical University of Ostrava	339	704	2.08	0.77	0.44	0.56	63%	33%
PHYSICS AND MATERIALS SCIENCE	Technical University of Liberec	276	705	2.55	0.88	0.48	0.54	56%	41%
PHYSICS AND MATERIALS SCIENCE	University of West Bohemia in Plzen	262	2180	8.32	1.94	1.59	0.82	33%	22%
PHYSICS AND MATERIALS SCIENCE	Institute of Scientific Instruments ASCR	175	621	3.55	0.84	0.50	0.59	40%	42%



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Field	Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
PHYSICS AND MATERIALS SCIENCE	University of South Bohemia in Ceske Budejovice	166	336	2.02	0.86	0.53	0.63	57%	37%
PHYSICS AND MATERIALS SCIENCE	Institute of Thermomechanics ASCR	158	485	3.07	0.71	0.54	0.76	47%	32%
PHYSICS AND MATERIALS SCIENCE	Silesian University in Opava	154	396	2.57	0.37	0.31	0.84	40%	54%
PHYSICS AND MATERIALS SCIENCE	Jan Evangelista Purkyně University in Ústí nad Labem	137	391	2.85	0.64	0.49	0.77	46%	47%
PHYSICS AND MATERIALS SCIENCE	ASCR unresolved	134	694	5.18	0.79	0.63	0.79	28%	36%
PHYSICS AND MATERIALS SCIENCE	Tomas Bata University in Zlín	113	311	2.75	1.13	0.73	0.65	46%	33%
PHYSICS AND MATERIALS SCIENCE	Institute of Mathematics ASCR	110	357	3.25	0.74	0.51	0.69	47%	40%
PHYSICS AND MATERIALS SCIENCE	VUK Panenské Brezany	74	98	1.32	0.62	0.32	0.52	62%	42%
PHYSICS AND MATERIALS SCIENCE	Czech Metrology Institute	67	74	1.10	0.41	0.23	0.55	55%	55%
PHYSICS AND MATERIALS SCIENCE	Nuclear Research Institute Řež	66	114	1.73	0.74	0.44	0.59	52%	38%
PHYSICS AND MATERIALS SCIENCE	Institute of Rock Structure and Mechanics ASCR	61	105	1.72	0.36	0.28	0.77	52%	40%
PHYSICS AND MATERIALS SCIENCE	University of Hradec Králové	57	251	4.40	0.62	0.61	0.99	40%	34%
PHYSICS AND MATERIALS SCIENCE	CRYTUR Ltd	57	380	6.67	1.59	1.00	0.63	19%	50%
PHYSICS AND MATERIALS SCIENCE	Institute of Systems Biology and Ecology ASCR	54	73	1.35	0.66	0.44	0.67	61%	47%
PHYSICS AND MATERIALS SCIENCE	SKODA AUTO	51	141	2.76	0.80	0.46	0.58	39%	17%
PHYSICS AND MATERIALS SCIENCE	Institute of Theoretical and Applied Mechanics ASCR	46	148	3.22	0.72	0.65	0.90	52%	35%
PHYSICS AND MATERIALS SCIENCE	Institute of Microbiology ASCR	46	185	4.02	0.83	0.67	0.81	46%	37%
PHYSICS AND MATERIALS SCIENCE	Military Geography and Hydrometeorology Office Dobruška	41	94	2.29	0.68	0.35	0.52	51%	46%
PHYSICS AND MATERIALS SCIENCE	Institute of Physiology ASCR	38	108	2.84	0.72	0.60	0.83	53%	54%
PHYSICS AND MATERIALS SCIENCE	Teva Czech Industries	34	40	1.18	0.56	0.22	0.40	62%	66%
PHYSICS AND MATERIALS SCIENCE	COMTES FHT Inc	34	38	1.12	1.05	0.40	0.38	56%	27%
PHYSICS AND MATERIALS SCIENCE	Astronomical Institute ASCR	33	116	3.52	0.55	0.42	0.77	73%	39%
PHYSICS AND MATERIALS SCIENCE	Institute of Information Theory and	32	451	14.09	1.50	2.68	1.79	47%	14%

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	Automation ASCR								
PHYSICS AND MATERIALS SCIENCE	Institute of Biophysics ASCR	31	759	24.48	3.18	3.80	1.20	39%	25%
PHYSICS AND MATERIALS SCIENCE	SVUM	30	49	1.63	0.42	0.31	0.73	47%	40%
PHYSICS AND MATERIALS SCIENCE	Institute of Atmospheric Physics ASCR	25	86	3.44	0.61	0.56	0.91	40%	46%
PHYSICS AND MATERIALS SCIENCE	Institute of Analytical Chemistry ASCR	23	59	2.57	0.59	0.47	0.79	30%	34%
PHYSICS AND MATERIALS SCIENCE	Vitkovice, Research and Development- Technical Applications, Inc.	22	94	4.27	1.14	0.87	0.76	55%	8%
PHYSICS AND MATERIALS SCIENCE	Czech Geological Survey	22	45	2.05	0.60	0.56	0.94	32%	35%
PHYSICS AND MATERIALS SCIENCE	Mendel University in Brno	20	34	1.70	0.53	0.22	0.41	60%	38%
PHYSICS AND MATERIALS SCIENCE	Institute of Computer Science ASCR	20	246	12.30	1.24	1.67	1.35	30%	26%
PHYSICS AND MATERIALS SCIENCE	Institute of Hydrodynamics ASCR	19	67	3.53	0.71	0.46	0.65	47%	39%
PHYSICS AND MATERIALS SCIENCE	University of Ostrava	19	93	4.89	0.97	0.84	0.87	37%	39%
PHYSICS AND MATERIALS SCIENCE	University of Veterinary and Pharmaceutical Sciences Brno	19	26	1.37	0.75	0.48	0.64	47%	47%
PHYSICS AND MATERIALS SCIENCE	Institute of Geophysics ASCR	19	95	5.00	1.02	0.73	0.71	26%	26%
PHYSICS AND MATERIALS SCIENCE	SHM LTD	18	536	29.78	5.13	5.11	1.00	17%	22%
PHYSICS AND MATERIALS SCIENCE	University of Defense	17	5	0.29	0.37	0.08	0.23	82%	75%
PHYSICS AND MATERIALS SCIENCE	Biology Centre ASCR	17	19	1.12	0.39	0.29	0.74	53%	37%
PHYSICS AND MATERIALS SCIENCE	CESNET	14	18	1.29	0.50	0.44	0.87	57%	38%
PHYSICS AND MATERIALS SCIENCE	GLASS SERV LTD	14	10	0.71	0.37	0.17	0.46	71%	70%
PHYSICS AND MATERIALS SCIENCE	HVM PLASMA LTD	14	53	3.79	0.86	0.79	0.92	43%	16%
PHYSICS AND MATERIALS SCIENCE	Institute of Geonics ASCR	13	9	0.69	0.47	0.13	0.27	62%	59%
PHYSICS AND MATERIALS SCIENCE	Institute of Geology ASCR	12	25	2.08	0.46	0.37	0.81	33%	32%
PHYSICS AND MATERIALS SCIENCE	State Office for Nuclear Safety	12	11	0.92	0.95	0.07	0.08	75%	69%
PHYSICS AND MATERIALS SCIENCE	Food Research Institute Prague	12	21	1.75	1.66	0.35	0.21	58%	42%
PHYSICS AND MATERIALS SCIENCE	Research Institute of Organic Syntheses	11	26	2.36	1.01	0.90	0.89	45%	42%
PHYSICS AND MATERIALS SCIENCE	ON SEMICONDUCTOR CZECH REPUBL	11	7	0.64	0.19	0.17	0.87	64%	67%

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PHYSICS AND MATERIALS SCIENCE	BBT MAT PROC	10	10	1.00	0.18	0.13	0.75	50%	55%
PHYSICS AND MATERIALS SCIENCE	ECOSOND SRO	10	7	0.70	0.33	0.14	0.42	60%	46%
PHYSICS AND MATERIALS SCIENCE	Institute of Molecular Genetics ASCR	10	18	1.80	0.29	0.25	0.88	30%	50%
PHYSICS AND MATERIALS SCIENCE	EVECO BRNO LTD	10	34	3.40	1.09	1.14	1.05	30%	24%
PHYSICS AND MATERIALS SCIENCE	Czech University of Life Sciences Prague	10	14	1.40	0.45	0.24	0.52	50%	36%
PHYSICS AND MATERIALS SCIENCE	REFLEX SRO	9	4	0.44	0.31	0.07	0.24	89%	78%
PHYSICS AND MATERIALS SCIENCE	Institute of Experimental Botany ASCR	9	27	3.00	0.91	0.71	0.78	22%	39%
PHYSICS AND MATERIALS SCIENCE	Polymer Institute Brno	8	4	0.50	0.26	0.16	0.62	50%	60%
PHYSICS AND MATERIALS SCIENCE	General University Hospital Prague	8	18	2.25	0.96	0.49	0.52	50%	31%
PHYSICS AND MATERIALS SCIENCE	POLOVODICE AS	8	16	2.00	0.52	0.36	0.69	63%	47%
PHYSICS AND MATERIALS SCIENCE	MAT & MET RES LTD	7	0	0.00	0.00	0.00	0.28	100%	
PHYSICS AND MATERIALS SCIENCE	VTUO BRNO DIV	7	2	0.29	0.51	0.05	0.09	71%	71%
PHYSICS AND MATERIALS SCIENCE	INST TECHNOL INVEST	7	15	2.14	0.60	0.31	0.52	14%	40%
PHYSICS AND MATERIALS SCIENCE	SOLARTEC SRO	6	2	0.33	0.15	0.15	1.04	67%	67%
PHYSICS AND MATERIALS SCIENCE	SYNPO AS	6	4	0.67	0.92	0.20	0.22	67%	33%
PHYSICS AND MATERIALS SCIENCE	SPOLCHEMIE AS	5	19	3.80	0.65	0.58	0.89	20%	14%
PHYSICS AND MATERIALS SCIENCE	ZDAS AS	5	0	0.00	0.00	0.00	0.05	100%	100%
PHYSICS AND MATERIALS SCIENCE	GRP PRAHA	5	48	9.60	2.04	1.16	0.57	0%	62%
PHYSICS AND MATERIALS SCIENCE	University Hospital Motol	5	6	1.20	0.68	0.42	0.61	40%	67%
PHYSICS AND MATERIALS SCIENCE	CERVENKA COUNSULTING	5	15	3.00	0.84	1.21	1.43	60%	48%
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	University of Economics Prague	317	160	0.50	0.82	0.09	0.11	69%	35%
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	Charles University in Prague	104	109	1.05	1.30	0.22	0.17	67%	16%
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	Czech National Bank	94	99	1.05	1.87	0.17	0.09	59%	28%
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	Academy of Sciences (global)	78	52	0.67	0.43	0.12	0.29	63%	29%

Bibliometric Analysis of the Czech Republic Research Output in an International Context – Institutional Analysis / Annex 8 to the Second Interim Report

Field	Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	CERGE-Economics Institute ASCR	39	19	0.49	0.60	0.07	0.12	67%	21%
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	Masaryk University	34	10	0.29	0.35	0.08	0.23	79%	41%
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	KOMERCNI BANKA AS	24	22	0.92	1.54	0.13	0.09	63%	29%
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	VSB-Technical University of Ostrava	20	9	0.45	0.86	0.08	0.09	65%	18%
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	Institute of Sociology ASCR	19	23	1.21	0.57	0.36	0.64	47%	36%
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	Institute of International Relations	14	15	1.07	0.98	0.57	0.58	57%	25%
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	ASCR unresolved	13	8	0.62	0.18	0.10	0.57	69%	11%
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	CTR ECON & POLIT	12	6	0.50	0.88	0.13	0.15	50%	45%
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	MINIST FINANCE	12	5	0.42	0.62	0.08	0.14	67%	44%
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	Institute of Agricultural Economics and Informations Praha	9	2	0.22	0.41	0.03	0.08	78%	67%
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	CZECH BUR STAT	7	3	0.43	0.33	0.07	0.20	57%	25%
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	OPEN MEDIA RES INST	7	6	0.86	0.38	0.15	0.40	43%	0%
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	NEWTON HOLDING AS	7	2	0.29	0.38	0.05	0.12	71%	67%
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	Mendel University in Brno	6	0	0.00	0.00	0.00	0.10	100%	
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	CESKOSLOVENSKA OBCHODNI BANKA AS	5	1	0.20	0.28	0.03	0.10	80%	50%
POLITICAL SCIENCE AND PUBLIC ADMINISTRATION	Palacky University Olomouc	5	14	2.80	0.84	0.79	0.95	20%	0%
PSYCHOLOGY	Charles University in Prague	282	675	2.39	0.88	0.27	0.31	58%	32%

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PSYCHOLOGY	Academy of Sciences (global)	274	1087	3.97	1.06	0.40	0.38	47%	24%
PSYCHOLOGY	Institute of Psychology ASCR	210	559	2.66	1.75	0.29	0.16	53%	27%
PSYCHOLOGY	Masaryk University	110	160	1.45	0.99	0.22	0.22	57%	21%
PSYCHOLOGY	Prague Psychiatric Centre	66	107	1.62	0.77	0.17	0.21	64%	42%
PSYCHOLOGY	University of South Bohemia in Ceske Budejovice	34	65	1.91	0.71	0.24	0.35	62%	36%
PSYCHOLOGY	Institute of Physiology ASCR	32	291	9.09	0.69	0.64	0.93	16%	23%
PSYCHOLOGY	Palacky University Olomouc	30	19	0.63	0.77	0.10	0.13	77%	27%
PSYCHOLOGY	National Institute of Public Health and regional hygienic stations	25	85	3.40	1.05	0.42	0.40	40%	36%
PSYCHOLOGY	General University Hospital Prague	19	3	0.16	0.13	0.02	0.15	84%	82%
PSYCHOLOGY	ASCR unresolved	15	193	12.87	1.22	1.14	0.93	33%	18%
PSYCHOLOGY	University Hospital Motol	13	4	0.31	0.38	0.03	0.09	85%	69%
PSYCHOLOGY	Na Homolce Hospital	10	195	19.50	3.55	2.03	0.57	60%	16%
PSYCHOLOGY	Institute for the Care of Mother and Child	10	26	2.60	0.46	0.17	0.36	60%	19%
PSYCHOLOGY	Czech University of Life Sciences Prague	9	17	1.89	0.26	0.16	0.61	33%	32%
PSYCHOLOGY	University Hospital Kralovske Vinohrady	7	4	0.57	0.59	0.06	0.10	71%	20%
PSYCHOLOGY	Institute of Animal Science	7	15	2.14	0.31	0.31	0.98	43%	40%
PSYCHOLOGY	University of Hradec Kralove	6	21	3.50	2.15	0.69	0.32	50%	25%
PSYCHOLOGY	Institute for Postgraduate Medical Education	5	1	0.20	0.18	0.02	0.09	80%	75%
PSYCHOLOGY	Faculty Hospital Na Bulovce	5	17	3.40	1.02	0.40	0.39	40%	6%
PSYCHOLOGY	St. Anne's University Hospital Brno	5	0	0.00	0.00	0.00	0.23	100%	100%
PSYCHOLOGY	Czech Technical University in Prague	5	1	0.20	0.28	0.09	0.31	80%	0%
SOCIAL AND BEHAVIORAL SCIENCES, INTERDISCIPLINARY	Charles University in Prague	47	115	2.45	0.50	0.43	0.86	26%	15%
SOCIAL AND BEHAVIORAL SCIENCES, INTERDISCIPLINARY	Academy of Sciences (global)	16	88	5.50	0.86	0.89	1.03	19%	21%
SOCIAL AND BEHAVIORAL SCIENCES,	Masaryk University	10	36	3.60	0.56	0.97	1.72	40%	16%

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Field	Institute	P	C-sc	CPP	CPP/ JCSm	CPP/ FCSm	JCSm/ FCSm	%nc	%sc
INTERDISCIPLINARY									
SOCIAL AND BEHAVIORAL SCIENCES, INTERDISCIPLINARY	CERGE-Economics Institute ASCR	7	74	10.57	0.87	1.29	1.50	0%	22%
SOCIOLOGY AND ANTHROPOLOGY	Academy of Sciences (global)	228	322	1.41	0.95	0.29	0.31	49%	31%
SOCIOLOGY AND ANTHROPOLOGY	Charles University in Prague	181	243	1.34	0.72	0.23	0.32	62%	19%
SOCIOLOGY AND ANTHROPOLOGY	Institute of Sociology ASCR	176	179	1.02	1.08	0.21	0.19	49%	37%
SOCIOLOGY AND ANTHROPOLOGY	Masaryk University	101	105	1.04	0.80	0.19	0.24	50%	25%
SOCIOLOGY AND ANTHROPOLOGY	University of West Bohemia in Plzen	23	32	1.39	0.71	0.64	0.90	61%	24%
SOCIOLOGY AND ANTHROPOLOGY	Palacky University Olomouc	22	7	0.32	0.29	0.07	0.23	77%	22%
SOCIOLOGY AND ANTHROPOLOGY	Institute of Archaeology ASCR	22	83	3.77	0.82	0.91	1.10	45%	19%
SOCIOLOGY AND ANTHROPOLOGY	Czech University of Life Sciences Prague	13	29	2.23	0.28	0.30	1.06	23%	34%
SOCIOLOGY AND ANTHROPOLOGY	National Museum	11	35	3.18	1.36	0.73	0.54	55%	10%
SOCIOLOGY AND ANTHROPOLOGY	University of Ostrava	10	2	0.20	0.39	0.04	0.10	90%	33%
SOCIOLOGY AND ANTHROPOLOGY	ASCR unresolved	7	13	1.86	0.71	0.23	0.33	14%	41%
SOCIOLOGY AND ANTHROPOLOGY	Institute of Philosophy ASCR	7	1	0.14	0.24	0.03	0.14	86%	50%
SOCIOLOGY AND ANTHROPOLOGY	Institute of Ethnology ASCR	6	2	0.33	1.22	0.28	0.23	83%	0%
SOCIOLOGY AND ANTHROPOLOGY	Institute of Vertebrate Biology ASCR	6	28	4.67	0.78	1.01	1.30	0%	20%
SOCIOLOGY AND ANTHROPOLOGY	Institute of Criminalistics Praha	6	3	0.50	0.71	0.06	0.09	67%	0%
SOCIOLOGY AND ANTHROPOLOGY	Moravian Museum	6	14	2.33	0.39	0.27	0.70	50%	44%
SOCIOLOGY AND ANTHROPOLOGY	University of Economics Prague	5	6	1.20	0.53	0.32	0.61	60%	0%
SOCIOLOGY AND ANTHROPOLOGY	National Institute of Public Health and regional hygienic stations	5	8	1.60	0.35	0.26	0.74	20%	27%



In Brighton, 04/04/2011



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