

Erasmus

India-Croatia

Erasmus?

- For nearly 30 years, the EU has funded the Erasmus programme, which has enabled over three million European students to spend part of their studies at another higher education institution or with an organisation in Europe.
- Erasmus+ brings such opportunities to all - students, staff, trainees, teachers, volunteers and more. It's not just about Europe or Europeans either - with Erasmus+, people from all over the world can access opportunities.

- **Staff (teaching)**

- With Erasmus+, opportunities are available to spend time teaching at an education institution abroad. These opportunities are available to both staff working in the education sector and to individuals working outside the sector invited to share their knowledge and experience.

- **Staff (training)**

- With Erasmus+, training opportunities are available to staff working in education, both in teaching and non-teaching capacities. Training periods abroad can consist of job shadowing, observation periods or specific training courses abroad.

- https://ec.europa.eu/programmes/erasmus-plus/opportunities/overview_en

Indian institutions

- CSIR-NML (Jamshedpur, Jharkhand); Dr. Sanchita Chakravarty (chemistry)
- BHU (Varanasi, Uttar Pradesh); Prof. Sudhakar Srivastava (biology)
- Crescent University (Chennai, Tamil Nadu); Prof. Noor Aman (chemistry)

- CSIR – Council of Scientific & Industrial Research
- NML – National Metallurgical Laboratory
- BHU – Banaras Hindu University

Croatian institutions (University of Zagreb)

- Faculty of Science: Dptm of Geology ; (Dptm of Chemistry)
- Faculty of : dptm of
-











Rankings (stat.) – quick facts about
Indian and Croatian science

Display countries with at least 0

Documents













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	Country	↓ Documents	Citable documents	Citations	Self-Citations	Citations per Document	H index
1	 United States	11036243	9875662	267612868	122087837	24.25	2077
2	 China	5133924	5052579	39244368	21831514	7.64	712
3	 United Kingdom	3150874	2705067	68803194	15755046	21.84	1281
4	 Germany	2790169	2590028	54834760	13548169	19.65	1131
5	 Japan	2539441	2437565	39049963	10407744	15.38	920
6	 France	1967157	1837639	37865266	8085273	19.25	1023
7	 Canada	1594391	1446619	34945308	6216383	21.92	1033
8	 Italy	1583746	1451214	28548485	6597300	18.03	898
9	 India	1472192	1379217	12637866	4329674	8.58	521
10	 Spain	1256556	1156724	20661273	4705368	16.44	775

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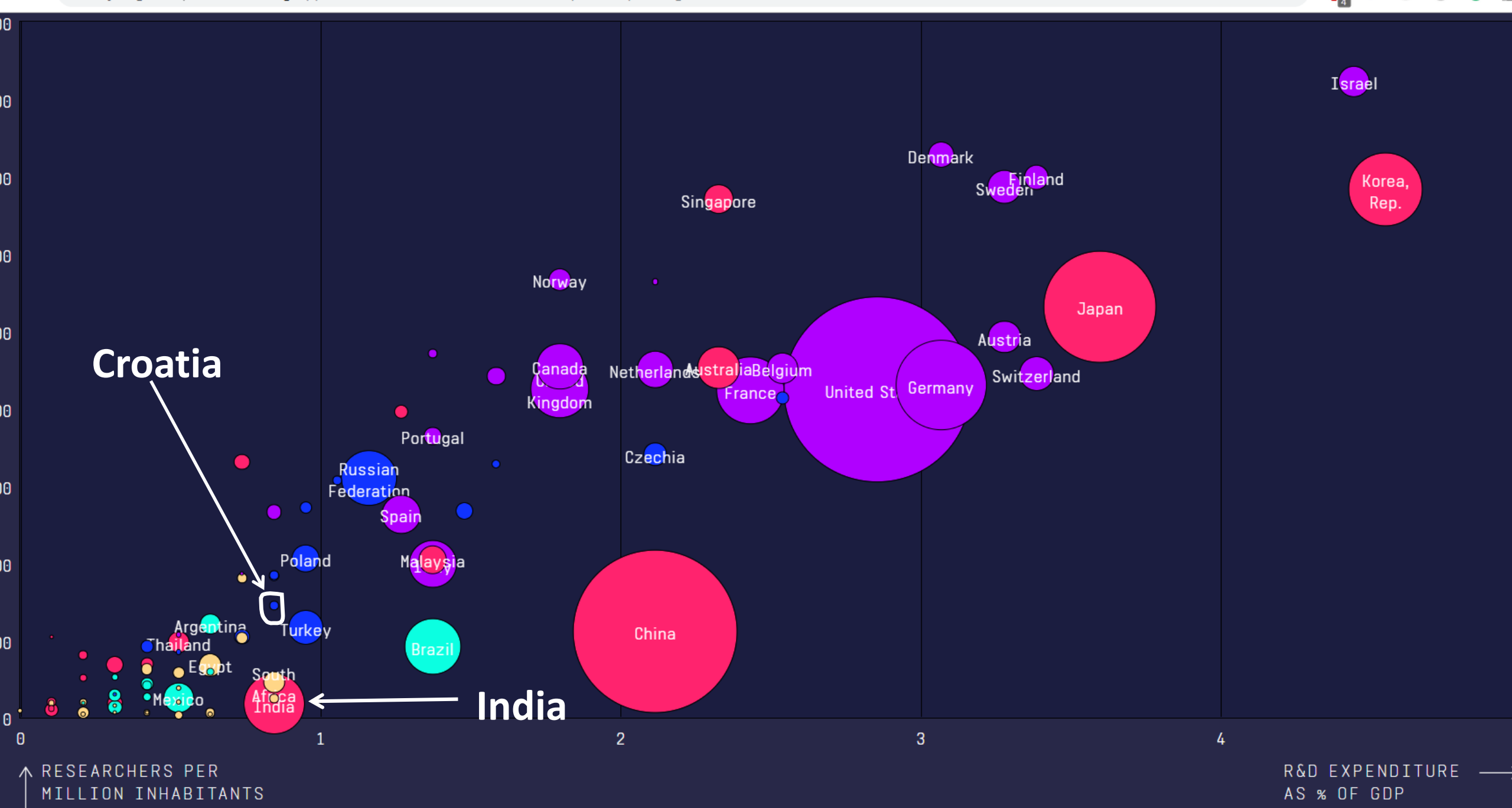
Got it!

38		Ireland	185268	165001	3479970	378709	18.78	451
39		Egypt	177824	172042	1570448	308989	8.83	231
40		Hungary	174351	165311	2600038	392020	14.91	390
41		Ukraine	171571	168607	1022473	276128	5.96	225
42		Thailand	156829	148862	1740576	273578	11.10	289
43		Saudi Arabia	155805	148836	1449661	234508	9.30	271
44		Romania	154390	148718	853373	200434	5.53	211
45		Chile	130556	123966	1758589	331076	13.47	318
46		Pakistan	127817	121836	943372	243217	7.38	217
47		Slovakia	100082	96967	927685	180089	9.27	241
48		Croatia	95058	90901	805063	150407	8.47	236
49		Slovenia	86384	82321	1062165	176459	12.30	255

47	 Slovakia	100082	96967	927685	180089	9.27	241
48	 Croatia	95058	90901	805063	150407	8.47	236
49	 Slovenia	86384	82321	1062165	176459	12.30	255
50	 Colombia	84734	80170	762833	116329	9.00	235
51	 Tunisia	76791	73066	552821	119316	7.20	157
52	 Indonesia	75220	72146	466289	71052	6.20	196
53	 Nigeria	75086	71046	513997	105490	6.85	166
54	 Serbia	71566	67575	500904	105256	7.00	172
55	 Bulgaria	70184	67666	719726	105636	10.25	217
56	 Algeria	57222	55916	353325	75167	6.17	137
57	 Morocco	54330	51172	418452	79473	7.70	162
58	 Lithuania	45486	44092	406792	82972	8.94	179

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Got it!



Croatia



India



R&D EXPENDITURE AS % OF GDP

8,000

7,000

6,000

5,000

4,000

3,000

2,000

1,000

0

INDIA

FINANCIAL RESOURCES

R&D spending as % of GDP

0.8%

R&D spending in PPP\$

\$48,063.0M

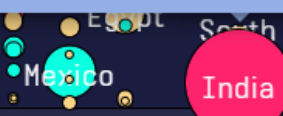
R&D spending by sector of performance

Business	\$17,044.0M
Government	\$29,066.8M
Universities	\$1,952.3M
Private non-profit	\$0.0
Unspecified	\$0.0

HUMAN RESOURCES

Number of researchers per million inhabitants

156



FIND COUNTRY

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Total expenditure PPP\$

9,000

8,000

7,000

6,000

5,000

4,000

3,000

2,000

1,000

UNITED STATES

FINANCIAL RESOURCES

R&D spending as % of GDP

2.7%

R&D spending in PPP\$

\$476,460.0M

R&D spending by sector of performance

Business

\$340,728.0M

Government

\$54,106.0M

Universities

\$62,354.0M

Private non-profit

\$19,272.0M


HUMAN RESOURCES

Number of researchers per million inhabitants

4,255



FIND COUNTRY ▾ or VIEW A REGION ▾

Total expenditure PPP\$ 



CROATIA

FINANCIAL RESOURCES

R&D spending as % of GDP

0.8%

R&D spending in PPP\$

\$736,714.8k

R&D spending by sector of performance

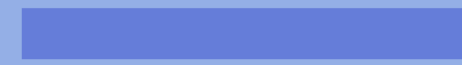
Business	\$355,478.4k
Government	\$191,985.7k
Universities	\$189,250.7k
Private non-profit	\$1,004.1k
Unspecified	\$0.0

HUMAN RESOURCES

Number of researchers per million inhabitants

1,436

Male researchers



51%

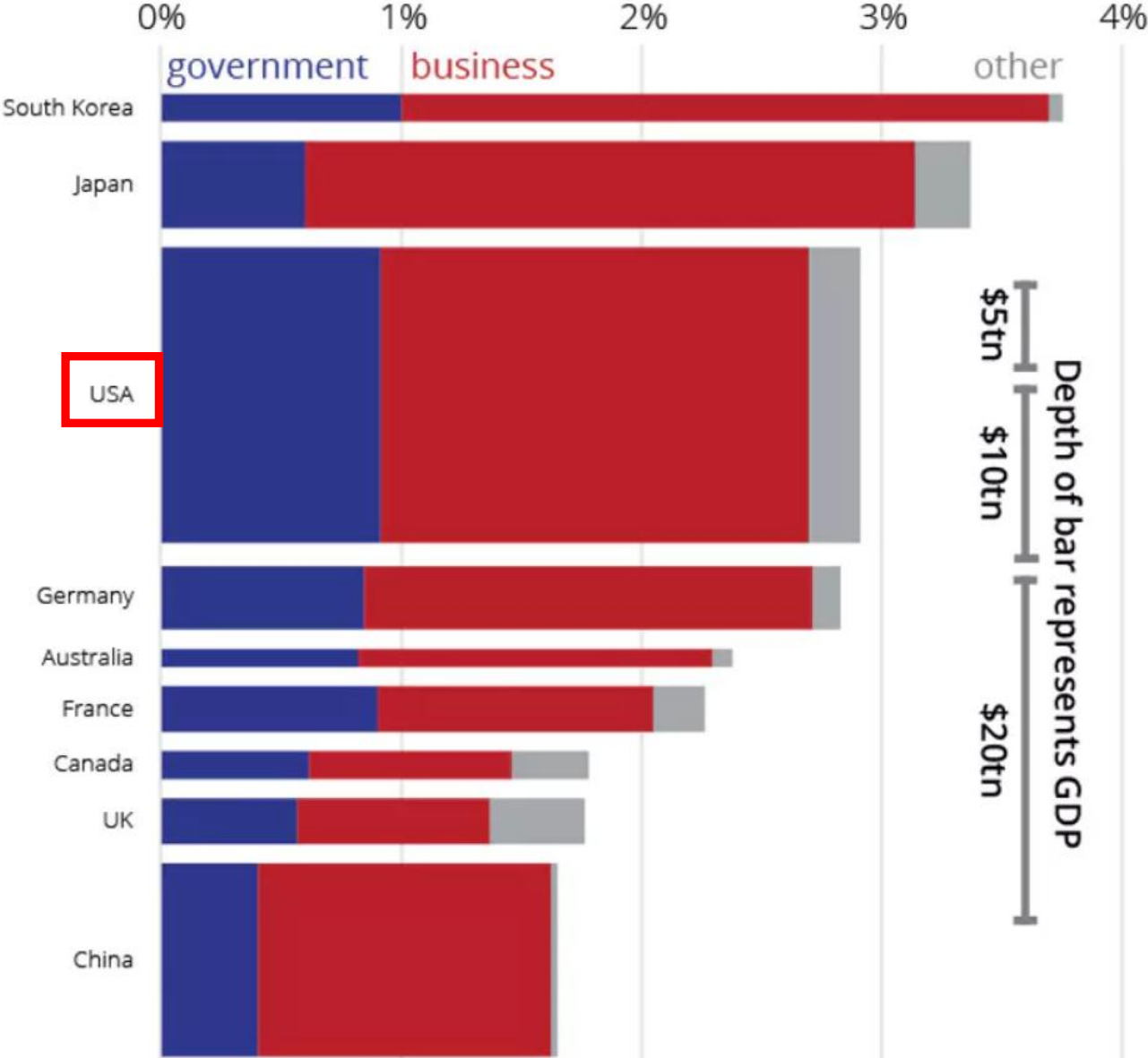
Female researchers



49%



% GDP invested in scientific research



King's College London provides funding as a member of The Conversation UK.

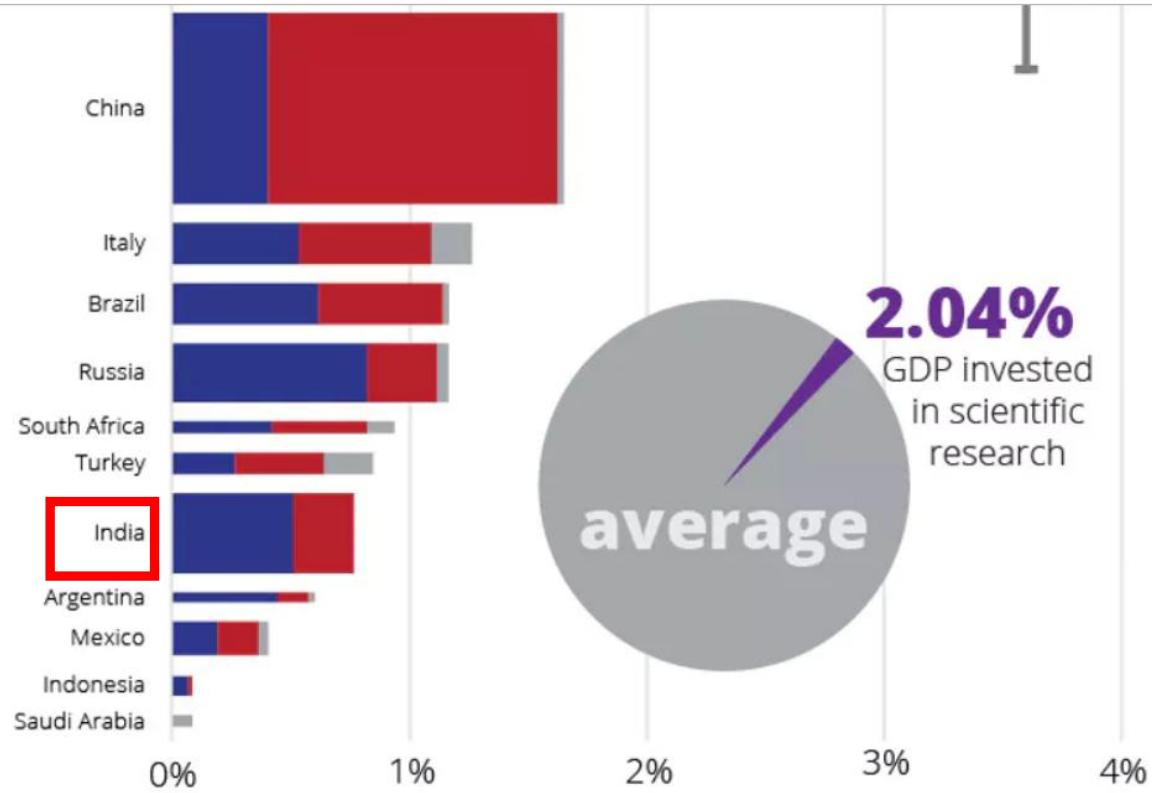
The Conversation UK receives funding from Hefce, Hefcw, SAGE, SFC, RCUK, The Nuffield Foundation, The Ogden Trust, The Royal Society, The Wellcome Trust, Esmée Fairbairn Foundation and The Alliance for Useful Evidence, as well as sixty five university members.

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Government and business funding of scientific research in the G20
Data from most recent UNESCO 'Gross Expenditure on R&D by source of funds' (PPP) scienceogram.org

A few broad conclusions emerge from the data:

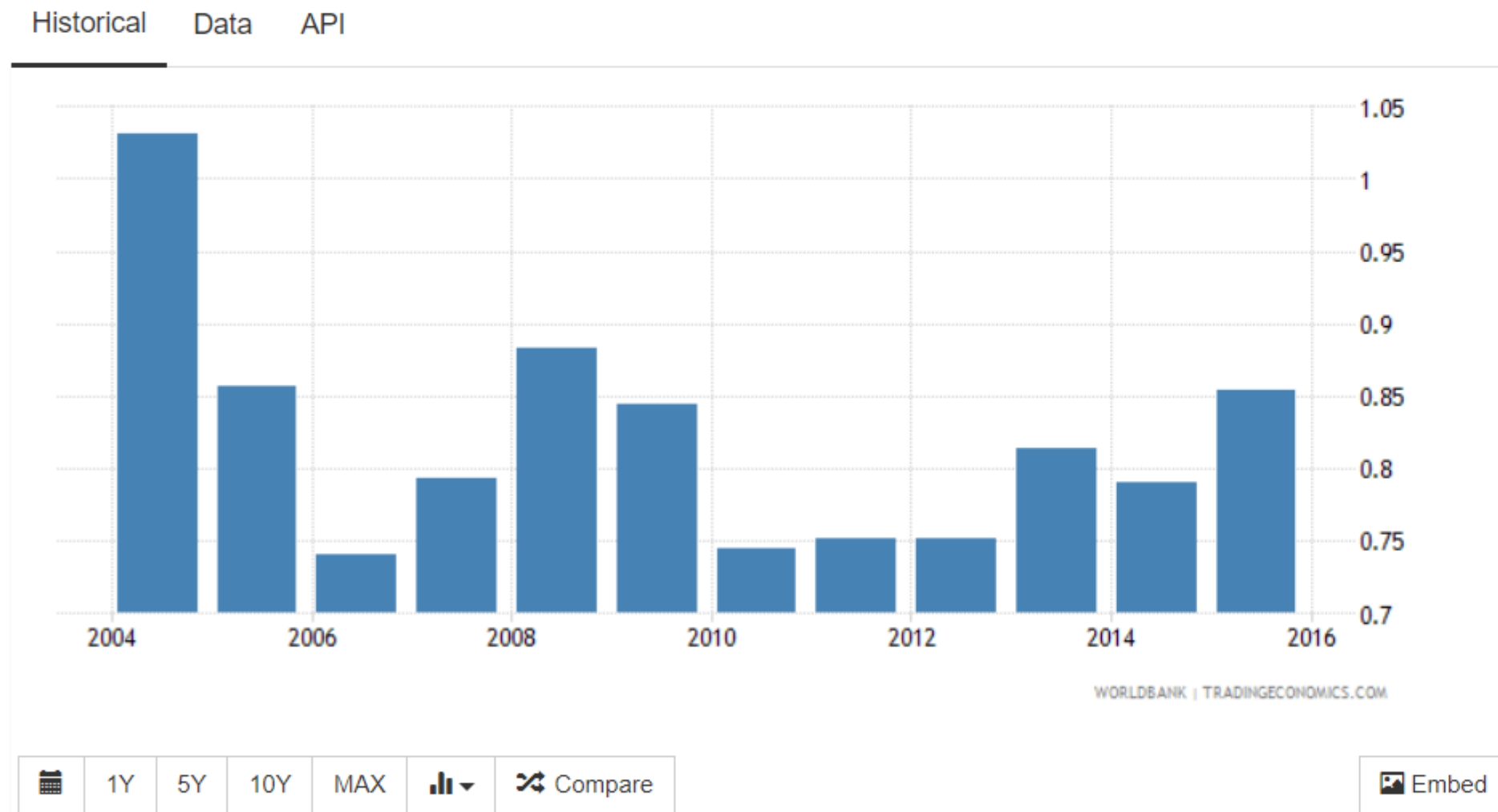
1. The percentage of GDP invested in research and development varies widely across the world. South Korea is powering ahead at 3.7% of GDP. (And its investment is increasing rapidly, up from 2.8% in 2005.) [The UK is below average by most international measures](#), spending 1.7% of GDP on research. Spending is much lower in the less wealthy

University of Zagreb

<http://www.unizg.hr/homepage/about-university/constituent-units/faculties/>

Croatia Research and development expenditure (% of GDP)

Research and development expenditure (% of GDP) in Croatia was reported at 0.85439 % in 2015, according to the World Bank collection of development indicators, compiled from officially recognized sources.



Croatia

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University of Zagreb

https://www.topuniversities.com/universities/university-zagreb

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University search: Study Level Subject of interest Study destination GO OR Site Search GO

OVERVIEW	HIGHLIGHTS	EVENTS	LOCATIONS	SIMILAR UNIVERSITIES
QS Global World Ranking #801-1000	Status Public	Research Output Very High	Total Students 59,625	Academic Faculty Staff 4,879

Helena and 2 others shortlisted this university

Overview

ABOUT

The University of Zagreb (1669) is the oldest and biggest university in South-Eastern Europe. Ever since its foundation, the University has been continually growing and developing and now consists 29 faculties, three art academies and the Centre for Croatian Studies. With its comprehensive programmes and over 50,000 full-time undergraduate and postgraduate students the University is the strongest teaching institution in Croatia. It offers a wide range of academic degree courses leading to Bachelor's, Master's and Doctoral degrees in the following fields: Arts, Biomedicine, Biotechnology, Engineering, Humanities, Natural and Social Sciences. It is also a strongly research-oriented institution, contributing with over 50 percent to the total research output of the country. Vision and mission: The mission of the University is based on scientific and artistic research and aims at sustainable development, artistic creativity and professional work as well as organization and performance of

MORE

QS Mexico University Rankings 2019

QS BEST STUDENT CITIES 2018

Where are the BEST CITIES IN THE WORLD for international students?

Find out here

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11:33 18.2.2019.

- <https://www.topuniversities.com/universities/university-zagreb>

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University Highlights

RANKINGS STUDENTS & STAFF

QS World University Ranking
#801-1000

QS WUR By Subject Ranking
#101-150

EECA University Rankings
#=37

Graduate Employability Ranking
#301-500

QS World University Ranking

Chart Data


2019	2018	2017
#801-1000	#601-650	#651-700
2016	2015	2014
#701+	#601-650	#601-650
2012		
#551- 600		

Ranking Criteria

Faculty Student: 28.7

[View all ranking data](#)

Featured University



Duke Kunshan University

Undergraduate
17 Courses

Postgraduate
5 Courses

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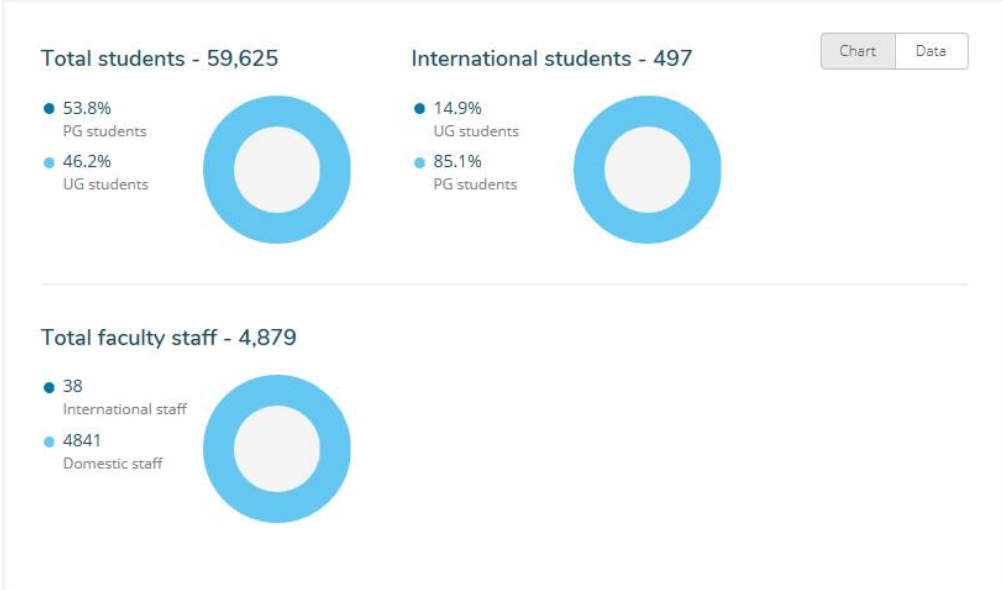
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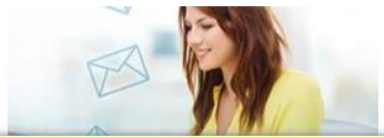
Featured University

Duke Kunshan University

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India

SCIENCE AND R&D

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Science and Technology

India ranked 13th in Nature Index 2017 based high quality research in natural sciences.

Growth of Science & Technology Industry - Infographic

Latest update: October, 2018



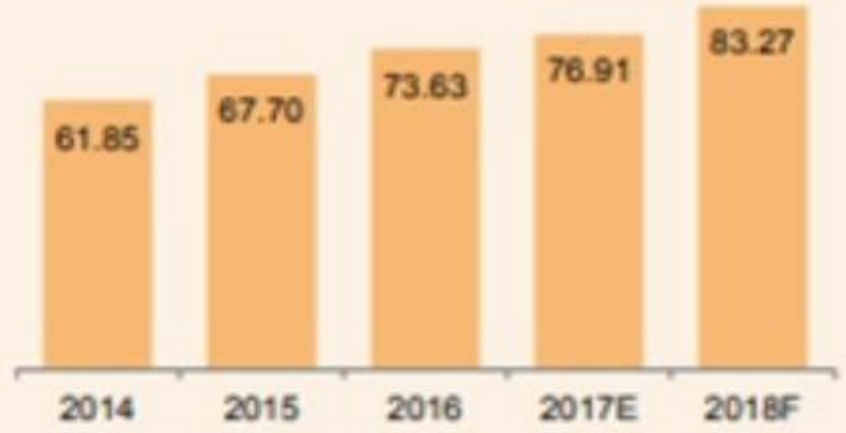
Note: CY – Calendar Year

Industry

BROWSE:

SNAPSHOT SHOWCASE INFOGRAPHIC REPORTS

Market Size



Note: E – Estimate, F - Forecast



162 universities



4,000 doctorates



35,000 postgraduate degrees

Global Rank



Note: * - rank as of FY18

Sector Composition

MNC With R&D Centers In India

Engineering R&D and product development (US\$ Billion)

- India
- 6th - scientific publications
- 10th - patents
- 13th position (the Nature Index in 2017 = counts of high-quality research outputs in natural sciences).
- India improved its rank on the Global Innovation Indeks 81st position in 2015 → 66th in 2016, 60th in 2017.
- India – 3rd largest technology startup hub

- **Global Innovation Index 2018:**

- No 1 export of information and communication technology (ICT) services
- No 2 in innovation quality
- India ranks 32nd in Research & Development globally
- 6th in the category of graduates in science and engineering
- 27th on e-participation
- 18th on the presence of global research and development companies

CSIR



Council of Scientific and Industrial Research (CSIR), India #30

Princeton



Princeton University, United States of America (USA) #102

BHU

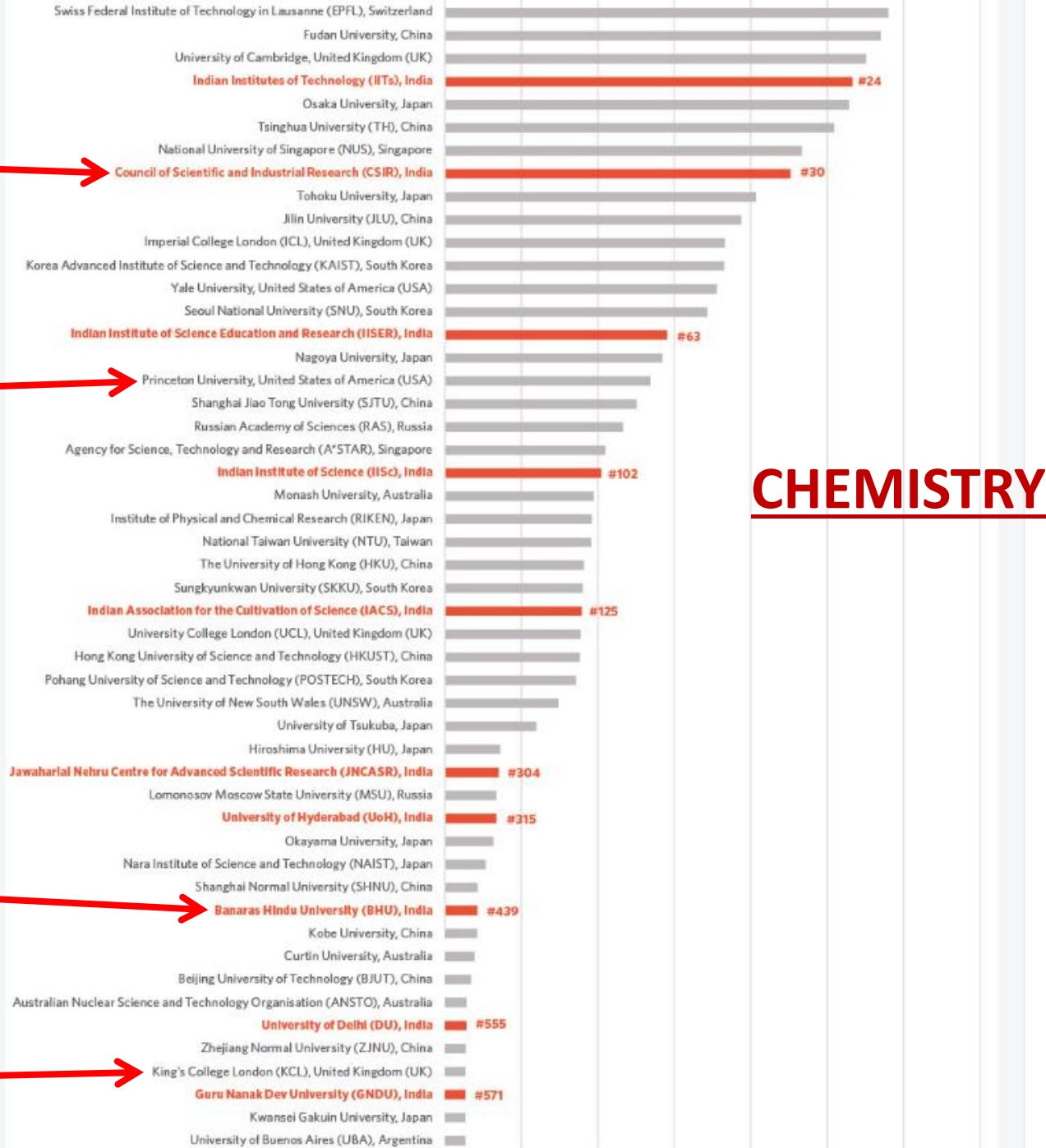


Banaras Hindu University (BHU), India #439

King's College
London



King's College London (KCL), United Kingdom (UK) #571



CHEMISTRY



Okayama University

23 Aug 2017



Finding the pulse of a quantum conundrum

Technical University of Munich (TUM)

20 Sep 2017



A rapid test for resistance to last-resort antibiotics

East China University of Science and Technology (ECUST)

22 Dec 2017

[Research highlights ▶](#)

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Figure 4 Indian institutions are highly ranked in Chemistry! This graph shows Indian institutions in the

2017	Country/territory	FC 2016	FC 2017	AC 2017	Change in Adjusted FC 2016-2017 *
1	United States of America (USA)	20089.59	19579.02	26683	-1.4% ↓
2	China	8115.22	9088.65	12566	13.3% ↑
3	Germany	4511.5	4363.57	8003	-2.1% ↓
4	United Kingdom (UK)	3808.17	3608.77	7087	-4.1% ↓
5	Japan	3185.2	3053.47	4678	-3.0% ↓
6	France	2325.38	2161.57	4536	-5.9% ↓
7	Canada	1588.41	1542.12	3033	-1.8% ↓
8	Switzerland	1353.04	1322.48	2950	-1.1% ↓
9	South Korea	1337.38	1281.47	2077	-3.0% ↓
10	Spain	1209.96	1075.48	2407	-10.1% ↓
11	Australia	1182.23	1060.47	2325	-9.2% ↓
12	Italy	1052.52	1011.86	2436	-2.7% ↓
13	India	915.18	956.86	1442	5.8% ↑
14	Netherlands	933.58	892.77	2127	-3.2% ↓
15	Singapore	554.69	596.23	1116	8.8% ↑
16	Sweden	586.7	591.36	1580	2.0% ↑
17	Israel	596.18	577.14	1158	-2.0% ↓
18	Taiwan	445.6	420.4	917	-4.5% ↓

28	Saudi Arabia	137.98	137.3	447	0.7% ↑
29	Portugal	140.68	131.92	514	-5.1% ↓
30	New Zealand	125.64	125.36	375	1.0% ↑
31	Ireland	133.22	122.48	446	-7.0% ↓
32	Chile	82.18	95.29	335	17.3% ↑
33	Argentina	91.88	94.5	294	4.1% ↑
34	Iran	91.68	87.43	239	-3.5% ↓
35	Greece	88.83	79.73	384	-9.2% ↓
36	Mexico	79.15	76.62	330	-2.0% ↓
37	Hungary	78.39	76.15	329	-1.7% ↓
38	South Africa	60.95	67.59	339	12.2% ↑
39	Turkey	78.88	61.6	315	-21.0% ↓
40	Slovenia	36.39	39.42	168	9.6% ↑
41	Pakistan	29.74	39.32	184	33.8% ↑
42	Thailand	29.64	36.67	215	25.2% ↑
43	Iceland	23.08	26.27	101	15.2% ↑
44	Croatia	22.07	25.79	175	18.2% ↑
45	Estonia	21.7	24.39	146	13.7% ↑
46	Ukraine	27.68	21.23	228	-22.4% ↓
47	Romania	26.28	21.06	224	-18.9% ↓
48	Luxembourg	20.57	19.07	73	-1.8% ↓

104	Emory University, United States of America (USA)	103.49	103.81	265	1.5% ↑
105	Jilin University (JLU), China	89.93	102.53	232	15.4% ↑
106	University of California Riverside (UCR), United States of America (USA)	99.11	102.18	287	4.3% ↑
107	The Rockefeller University, United States of America (USA)	97.54	100.1	269	3.9% ↑
108	University of New South Wales (UNSW), Australia	122.5	99.14	315	-18.1% ↓
109	Indiana University (IU), United States of America (USA)	114.84	98.73	340	-13.0% ↓
110	Indian Institute of Science Education and Research (IISER), India	97.63	98.21	246	1.8% ↑
111	Pierre and Marie Curie University (UPMC) - Paris 6, France	99.41	97.82	990	-0.4% ↓
112	South China University of Technology (SCUT), China	77.85	97.25	182	26.4% ↑
113	University of Alberta (U of A), Canada	106.85	97.06	302	-8.1% ↓
114	Uppsala University (UU), Sweden	95.08	96.74	418	3.0% ↑
115	Boston University (BU), United States of America (USA)	110.99	95.42	503	-13.0% ↓
116	Kyushu University, Japan	113.12	95.16	310	-14.9% ↓
117	Arizona State University (ASU), United States of America (USA)	97.85	95.09	314	-1.7% ↓
118	University of Freiburg (Uni Freiburg), Germany	75.43	94.49	312	26.8% ↑
119	Johannes Gutenberg University Mainz (JGU), Germany	95.11	93.3	348	-0.7% ↓
120	RWTH Aachen University (RWTH Aachen), Germany	91.92	93.19	387	2.6% ↑
121	The University of Hong Kong (HKU), China	74.66	92.45	347	25.3% ↑
122	Free University of Berlin (FU Berlin), Germany	86.14	90.36	429	6.2% ↑
123	King's College London (KCL), United Kingdom (UK)	80.72	89.89	463	12.7% ↑

- The more participants – the better chance for acceptance of application
- Each individual can apply again after 2 years (e.g. after using funds for exchange in 2021, they can apply again as early as 2024)
- Call will start in October 2019 – till then all formalities should be cleared/ready
- Please, sort them out as soon as possible (administration is complex, and time-consuming)
- Croatian office: Željka Pitner : zpitner@unizg.hr
- PMF: International Relations Office: international@dekanat.pmf.hr
- gmedunic@geol.pmf.hr (Gordana Medunić, Geološki odsjek PMF)