

Forschungsexzellenz in Europa

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6.Jahrestreffen Degeval, Hamburg, 10.10.2003



Fraunhofer Institut
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Forschungsexzellenz in Europa

- Hintergrund: Entscheidung Regierungschefs Lissabon 23./24.März 2000 zur Identifikation und Kartierung der europäischen Exzellenz in Wissenschaft und Technologie
- Angestrebtes Ziel: Europäischer Forschungsraum
- 6 Felder untersucht: Nanotechnologie, Life Sciences (Genetik, Immunologie, Neurowissenschaft, Bioinformatik), Wirtschaftswissenschaften

Auftrag an CWTS/Fraunhofer ISI

- Definition von Nanotechnologie, Life Sciences
- Alle Mitgliedsstaaten und Kandidatenländer (N=32)
- Aggregationslevel: Universität, außeruniv. Institut, Unternehmen; Land, Welt
- Zeitraum: 1995-2001
- Kognitive Kartierung der Forschungsfelder
- Geographische Kartierung von Forschungsexzellenz mithilfe ausgewählter bibliometrischer Indikatoren (Output, Wirkung, kein Input!)

Forschungsexzellenz

- Komplexes, mehrdimensionales Konzept:
 - Quantität, Qualität
 - Wirkung und Verwendung: Wissenschaft, Politik, Wirtschaft
 - Effizienz, Effektivität
 - Aggregationslevel
- Vielzahl unterschiedlicher Mess- und Evaluationsverfahren

Bibliometrische Indikatoren

- Number of publications
- Number of citations, excluding self-citations
- Number of citations per publication
- Number of publications which are among the top 10 percent of most cited publications in the field
- Number of citations per publication, divided by the mean number of citations per publication in the field to which the publication belongs
- Percentage self-citations relative to all citations
- Percentage of papers not cited, relative to all publications
- Number of patent application
- Number of patent application, relative to all publications



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AUSTRIA | 
BELGIUM | 
BULGARIA | 
CYPRUS |
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CZECH
REPUBLIC | 
DENMARK | 
ESTONIA | 
FINLAND |
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FRANCE | 
GERMANY | 
GREECE | 
HUNGARY |
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ICELAND | 
IRELAND | 
ISRAEL | 
ITALY |
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LATVIA | 
LIECHTENSTEIN | 
LITHUANIA | 
LUXEMBOURG |
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MALTA | 
NETHERLANDS | 
NORWAY | 
POLAND |
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PORTUGAL | 
ROMANIA | 
SLOVAKIA | 
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SPAIN | 
SWEDEN | 
SWITZERLAND | 
UNITED
KINGDOM |



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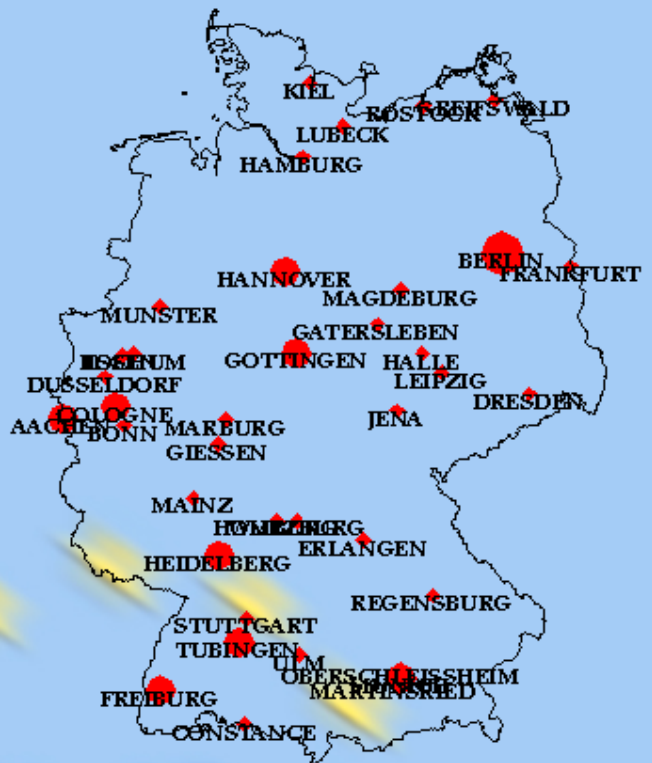
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GERMANY

Field:

Item1:

Item2:

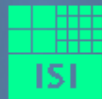


Draw map

Select country



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Field:

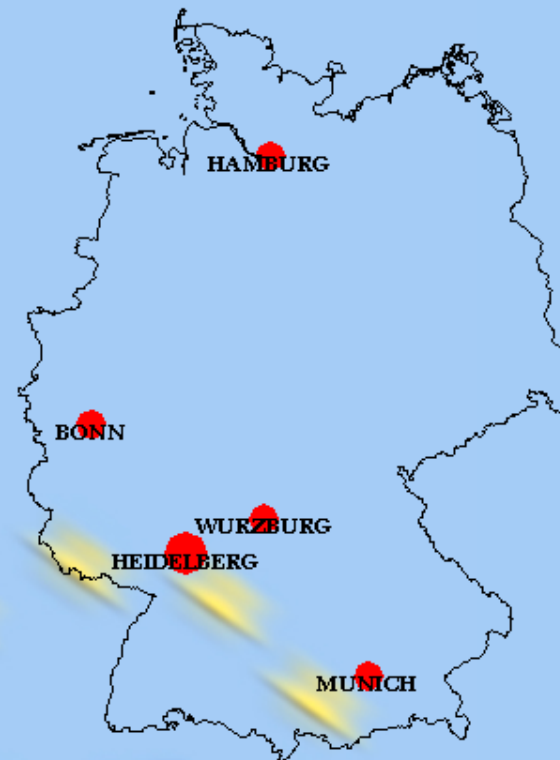
Item1:

Item2:

Draw map

Select country

GERMANY





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Selected organizations

Field: Genetics

Organization	N	Cx	Growth	Impact	P10	Npats	Npats Pubs
HEIDELBERG EUROPEAN MOLEC BIOL LAB	512	5450	-0.75	2.03	64	25	0.05
HEIDELBERG GERMAN CANCER RES CTR	657	4634	-0.72	1.76	39	119	0.18
HEIDELBERG UNIV HEIDELBERG	955	5213	-0.75	1.67	58	52	0.05



Mapping Excellence in Science and Technology across Europe

Search for an Address

To search for an address, first select the field you would like to search in. Then press the **Update** button to update the table. Now you will be presented with a list of the organizations found in this country *for the selected field*. The first organization has been pre-selected and its departments have been retrieved from the database.

Multiple departments can be selected by holding the **CTRL** or **SHIFT** keys (although this may be platform-dependent).

Pressing the **Update** button will both query the database again and in case of a selection that contains enough information for a profile, display an URL that will direct you to the profile page for the selected address.

Field	Genetics
The field Genetics contains 31 countries.	
Country	GERMANY
The country GERMANY contains 20 organizations in GOTTINGEN.	
Organization	MAX PLANCK SOC
Ignore city:	<input type="checkbox"/>
The MAX PLANCK SOC contains 21 departments in GOTTINGEN.	
Departments	ABT ENTWICKLUNGSBIOL ABT MOL BIOL NEURONALER SIGNALE ABT MOL ENTWICKLUNGSBIOL ABT MOL NEUROBIOL ABT MOL ZELLBIOL
Update	

Show [the profile](#) for the *MAX PLANCK SOC* in *GERMANY* , as a complete organization.

Neue Dimension von Exzellenz: Angewandte Forschung

- Auswertung von Patentanmeldungen EPO
- Zwei Herkunftsquellen technologischen Wissen:
 - Anmelder
 - Erfinder
- Auswertung institutionelle Anbindung von Erfinder im Science Citation Index

Ergebnis: in 50% der Patentanmeldungen sind öffentliche Forschungseinrichtungen involviert



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Field:

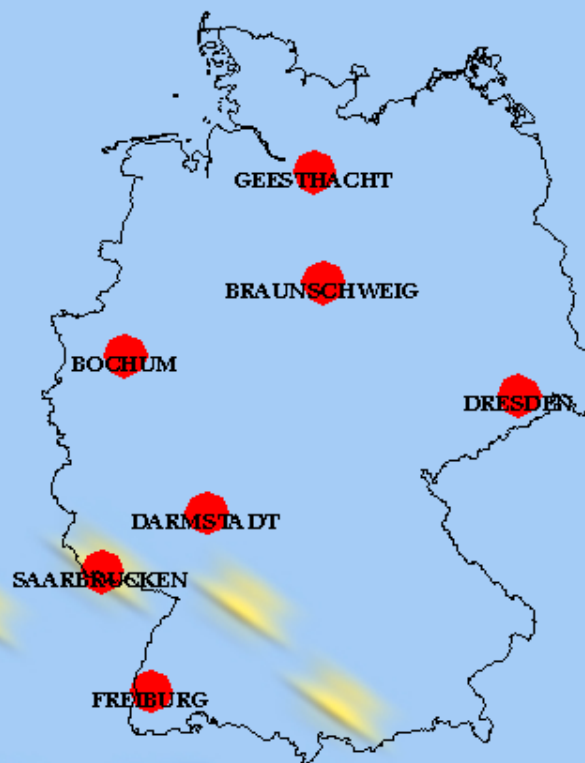
Item1:

Item2:

Draw map

Select country

GERMANY



Institutionelle Profile

