





# The SLING Project

# Background Our Objectives Today

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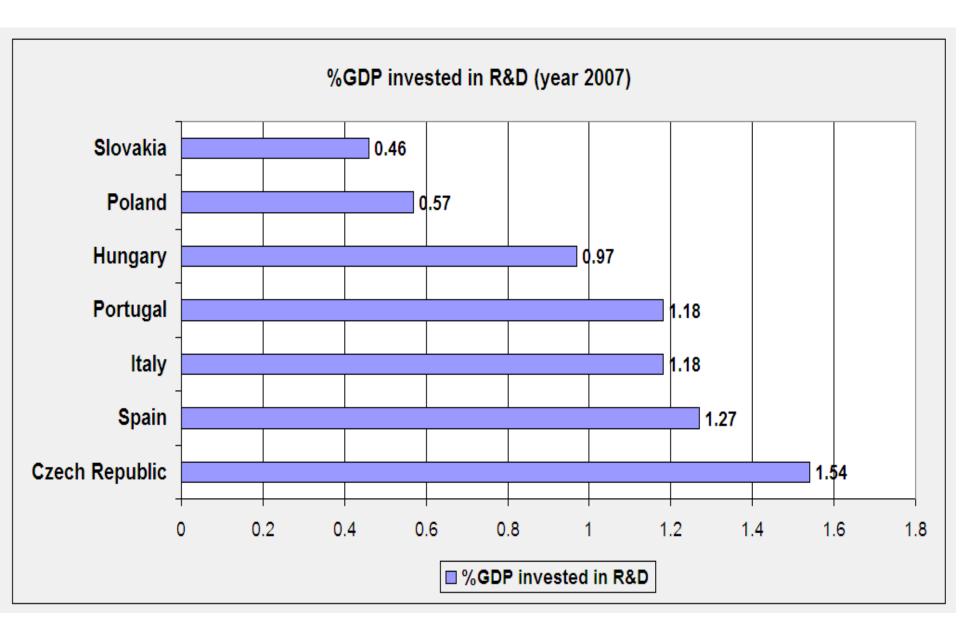


### **European Union Policy**

- Lisbon Agenda / Europe 2020
- European Research Area
- Consolidation Research Infrastructures in Europe
- Biotechnology program
- Databases and search tools

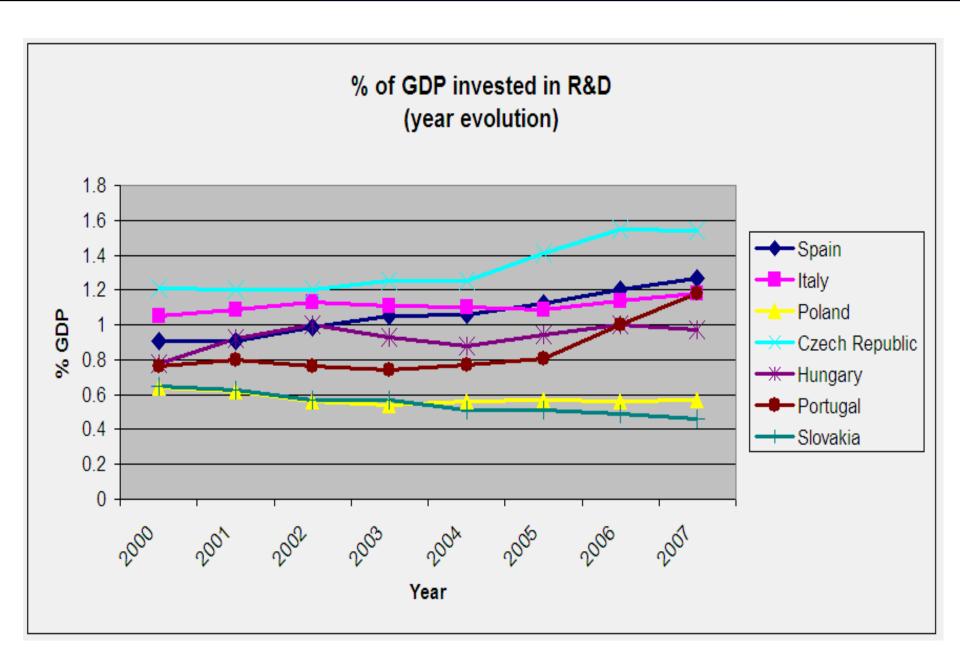


















# Biotechnology Infrastructure

In 2006 the EU awarded 16.7 million Euros

 ensure long-term support of several European bioinformatics databases and developments.

 The funding was the largest bioinformatics infrastructure award ever granted in Europe.







## Project 1: FELICS

- FELICS (Free European Life-science Information and Computational Services)
- FELICS aimed to maintain a number of key resources in biological databases and bioinformatics tools
- EPO ensures that the bio-molecular information from patents is covered in all databases







### **FELICS**

- EPO three main tasks:
  - XML standard for biological sequence presentation including a software
  - 2. Non redundant Patent sequence database
  - Initiating a collection of chemical entities disclosed in patents

FELICS delivered by the end of 2009.







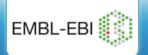
### **Project 2: SLING**

(Serving the Life sciences for the Next Generation)

- Same strategy as FELICS
  - To develop a European Biotechnology Infrastructure to support European Research
- Project duration: 36 months

Budget: 8 million Euros

http://www.sling-fp7.org/











User login
Username: *
Password: *
Log in

### SLING

SLING is a three-year project - Serving Life-science Information for the Next Generation. Its goal is to make sure that advances in European Science are supported by the best possible biomolecular information, and that European scientists are optimally equipped to exploit it. To do this, SLING makes available a comprehensive range of databases and services from its five Partners: the European Molecular Biology Laboratory European Bioinformatics Institute (EMBL-EBI), the Swiss Institute of Bioinformatics (SIB), the BRENDA database at the Technische Universität Braunschweig (TUBS), the European Patent Office (EPO), and Enzymeta GmbH.

Under the SLING project, the EBI provides:

- Databases
- Bioinformatics Tools
- Web Services
- Training including Courses, Conferences, Workshops and the EBI User Training Programme

Under the SLING project, the SIB provides:

- Core & Computing facilities
- Databases
- Software Tools
- Web Servers
- Education including Training Courses and Bioinformatics Workshops

Both the EBI and the SIB provide extensive, high-quality training in the use of the databases and services, and carry out R&D necessary to enable the data and services to keep pace with changing science. The activities are designed to support both commercial and academic research throughout Europe, and its training will be delivered in numerous European locations.

To ensure the quality of the data, the work will include efforts targeted at information in patent literature through the <u>EPO</u>, along with <u>Patent Data Resources at the EBI</u>. New high-throughout methods (such as next-generation DNA sequencing) will provide major stimuli for the R&D work of the project. At <u>TUBS</u> and <u>Enzymeta GmbH</u>, the <u>BRENDA</u> enzyme database will be enhanced in the areas of systems biology, integration of BRENDA data into metabolic network models and network simulation programs, enzyme data visualisation, the <u>BRENDA</u> tissue ontology and new enzyme classes.





## Dissemination of knowledge

1. Comprehensive Databases in Biotechnology

Broad Use of the Databases and the Search Tools

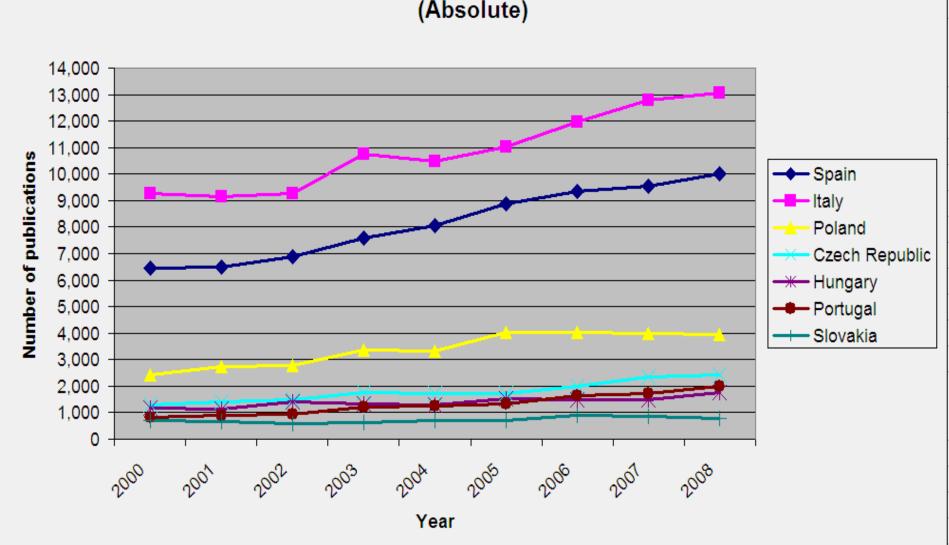
3. New submission tool for biological sequences

4. IP awareness in Biotechnology,





# Biotechnology Scientific Publications (Absolute)









CC

**TOTAL Biotechnology** papers

1.180

1.120

1.407

1.342

1.307

1.527

1.474

1.473

1.774

Year

Hungary

2000

2001

2002

2003

2004

2005

2006

2007

2008

CC

Hungary

SLING Serving Life-science Information for the Next Generation		

Year

TOTAL

Biotechnology

papers

1.180

1.120

1.407

1.342

1.307

1.527

1.474

1.473

1.774

Resident

Non-Resident

**TOTAL** 

Biotechnology

patent

publications





### **CONCLUSIONS**

- Comprehensive Databases in Biotechnology Your contribution: Patent Offices, Universities, Industry
- Broad Use of the Databases and the Search Tools

Learn about the tools available to you: free!

- New submission tool for biological sequences BISSAP will be presented to you; try it!
- IP awareness in Biotechnology

Valorize your research?

Use the Patent Documentation in DBs!







### Thank You!

### **Gerard Giroud**

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