



Université de Strasbourg

Welcome to the European Summer
School participants

July 7, 2014

Catherine Florentz

Vice-president for Research and Doctoral training



University of Strasbourg



January 1st 2009, merging of the three former local universities
Université Louis Pasteur, Université Marc Bloch, Université Robert Schuman

Initially founded in 1621 by the Holy Roman Emperor Ferdinand II

University of Strasbourg Main campus



Training



More than 43 000 students

More than 2500 PhD students

More than 450 PhD theses/year



All disciplines

- Law, economics, politics 30 %
- Humanities and social sciences 18 %
- Arts, litterature, languages 16 %
- Sciences and technologies 19 %
- Health sciences 17%
- 190 possibilities of grades



International

- **Students from 117 nations**
(22 % of total)
- **Over 200 bilateral partnerships** within the European programs Erasmus/ Socrates
- **75 active interuniversity agreements** in over 27 countries



Infrastructures

- 100 buildings on 4 campuses : Esplanade, Médecine, Illkirch, Cronenbourg-Schiltigheim
- Osiris 2, very high-speed (1 Gbps) networks
- ENT : digital portal for students and staff with ressources
- 900 wireless hotspots on 31 buildings
- 7 language teaching centers

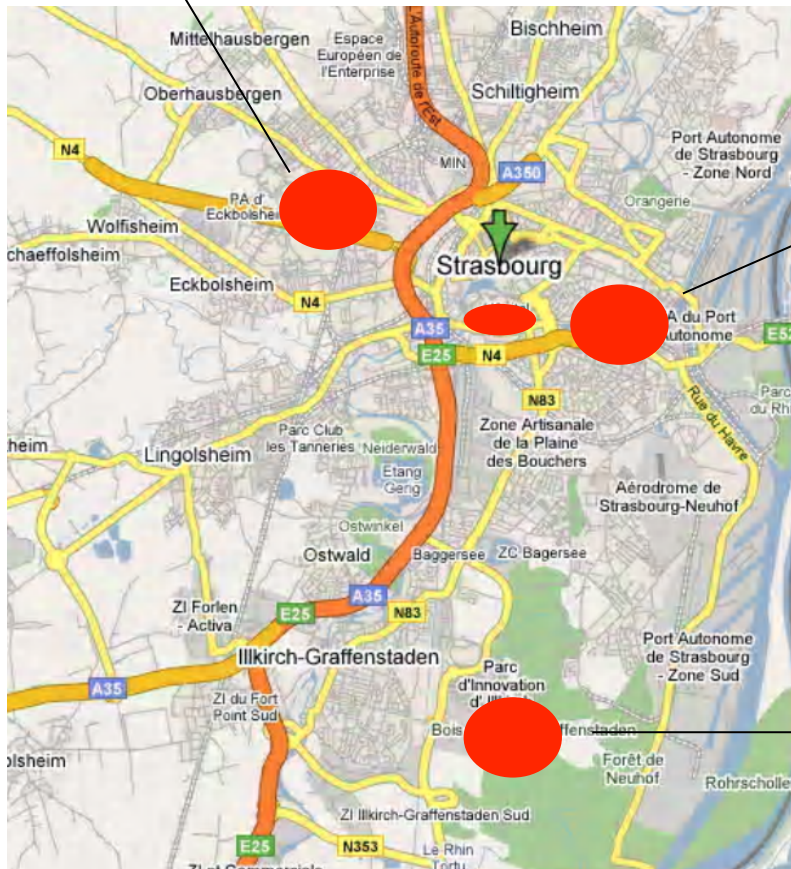


Cronenbourg



A global European research university

Main Campus



Illkirch



73 Research Units within 3 Domains

Domain I

Law, Economics,
Management

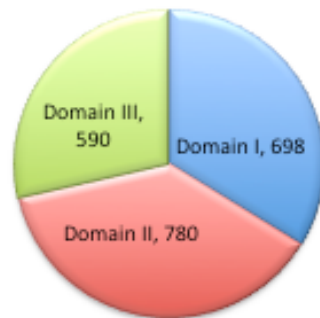
Domain II

Science and
technologies

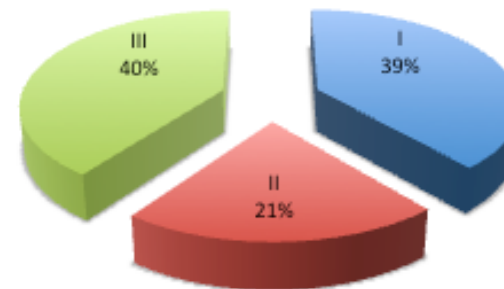
Domain III

Life and health
sciences

Permanent Scientists



Research Unités



Domain I

Law, Economics, Management

Arts, Languages, Literature
Law, administration, society
Education and learning
Journalism & Politics
Economics and management
Humanities and social sciences



Domain II

Science and technologies

Chemistry

Engineering & Technology

Mathematics, Engineering,
Informatics, Imaging

Nanosciences

Molecular electronics, spintronics

**Advanced materials for energy,
environment and health**

**Hybrid multifunctional materials and soft
matter**

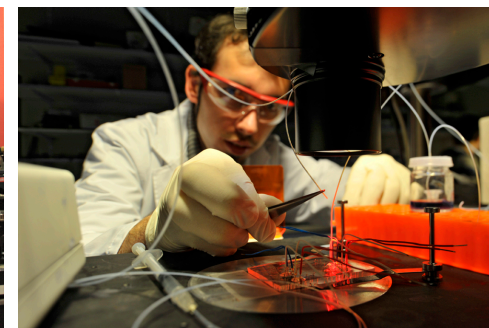
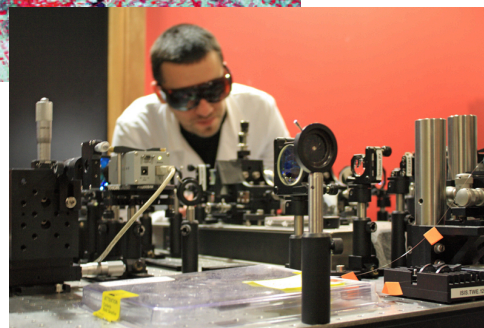
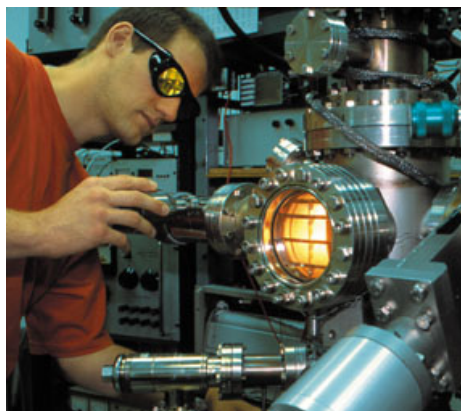
Molecular and mesoscopic simulation

Nano- and femto- magnetism

Nanophotonics and nanoplasmonics

Ultrafast optics and quantum dynamics

Subatomic physics





A strong place for Physics

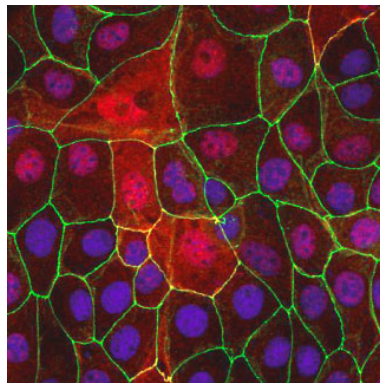
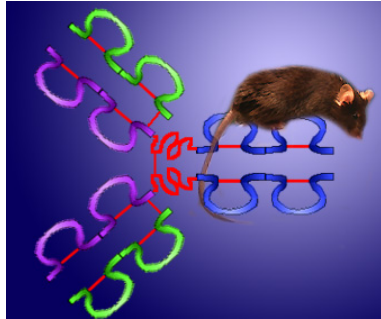
- **350 researchers**
- **5 most important labs**
 - ISIS, devoted to nanosciences
 - IPCMS condensed matter, nanosciences
 - ICS working on soft-matter
 - IPHC specialized in nuclear and high-energy physics
 - ICUBE in Engineering
- **key words**

Cyclotron facility, CERN, Heavy nuclei, Ultrafast optics, spintronics, nanomagnetism, surface physics, biophysics, molecule-surface plasmon interactions, novel optical properties of sub-wavelength apertures, polymer physics
- **programs**

800 bachelor and master students ; 200 PhD students
6 master programs, 1 special program in polymer science shared with Freiburg-Germany

Domain III

Life and health sciences



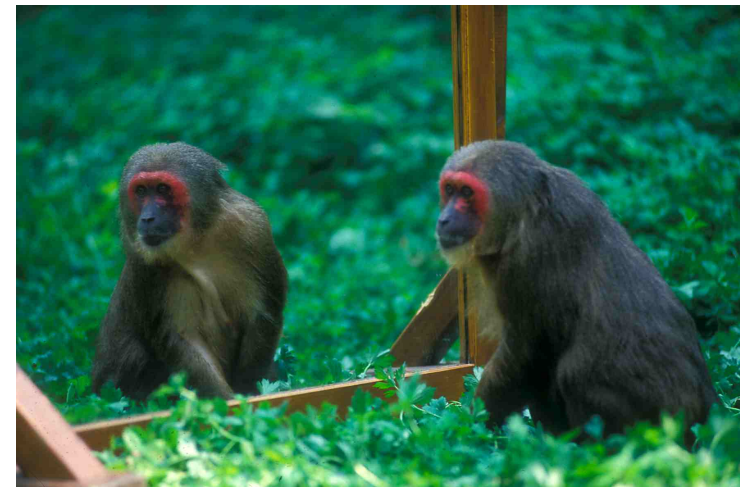
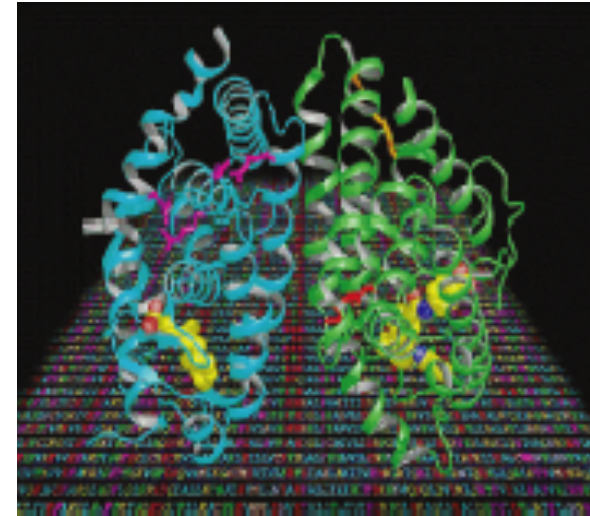
Life and Health Sciences

Immunity and infection, host-pathogen relationships

Genomes, functional genomics, regulation

Neurosciences and neurogenetics

Drug discovery



Strong Points

- **Partnership with governmental organizations**
 - CNRS, INSERM, INRA, INRIA, ...
 - Research Units under double tutelling)
- **Diversified research** favoring interdisciplinarity
- **Important influence on economic development**
 - 45 “start-up” established in the last 15 years leading to 800 new jobs
 - SATT - Connectus (Society for transfer of Technology)
- **Strong success at the national competition**
« Investissements d'Avenir 2011 & 2012 »
 - IdEX, LabEx, ...

Laboratories of Excellence 2012-2019



Hepatitis System



Genomes expression
and cross-talk in
mitochondrial function
and dysfunction



Integrative biology,
Nuclear dynamics,
Regenerative and
Translational
medecine



Networks of Regulatory
RNAs across kingdoms
and dynamical responses
to biotic and abiotic
stresses



Drug Discovery
Center



Novel histocompatibility
antigens and
biomarkers in human
transplantation

Laboratories of Excellence 2012-2019



Centre for
Chemistry of
Complex
Systems



Nanostructures in
Interaction with their
Environment



Deep
Geothermal
Energy



Institut de recherche
en mathématiques,
interactions et applications

Research in
Mathematics :
Interactions and
Applications



Experimental
Research Group
on the Creative
Musical Art

Distinctions

3 Nobel Prizes :

Jean-Marie Lehn, Chemistry, 1987

Jules Hoffmann, Medicine, 2011

Martin Karplus, Chemistry, 2013



1 Fields Medal : René Thom, 1958

14 members of the Academy of Sciences

49 members of the Institut Universitaire de France

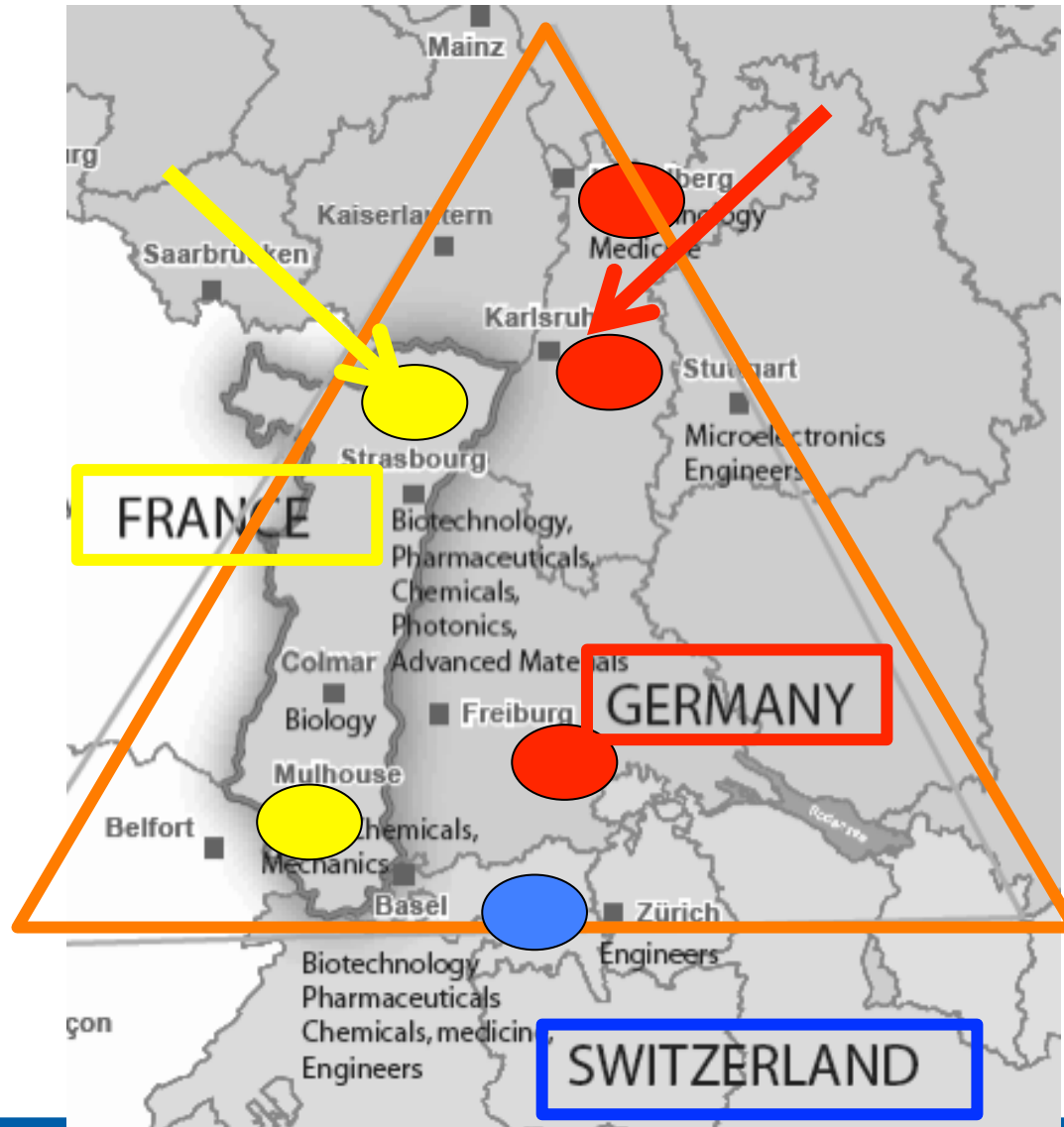
19 European Research Council grants

Many major scientific prizes (King Fayçal, Louis Jeantet, Balzan, Koch, von Humboldt, Academy of Sciences, CNRS Medals, Royal society of chemistry...).

A research-based university at the heart of Europe : crossing frontiers



Alsace Region and the European Golden Triangle



University of Strasbourg



Part of the

- Federation of Upper Rhine Universities (EUCOR)
- League of European Research Universities (LERU)
- One of the eight French Universities of Excellence (IDEX)

European Summer School « From the Mystery of Mass to Nobel Prizes »

French-German research
workshop

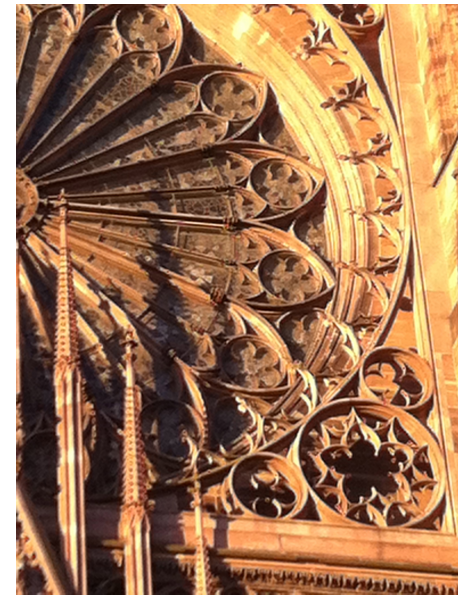
on

Physics of the Higgs Boson
discovered at the LHC (CERN
Geneva)

for

Master and PhD Students,
Post-docs from 11 countries

Lectures, Working groups,
Workshops



The logo of the University of Strasbourg, consisting of two blue curved segments forming a stylized 'S' shape.

UNIVERSITÉ DE STRASBOURG

Photos :

Catherine Schröder, Jean-François Badias, Caroline Schneider, Patrick Bogner, Pascal Disdier, Bernard Braesch, Sébastien Coly, Klaus Stöber