

1 Introduction



This research program will show students the **links between fundamental sciences and clinical research**. Topics to be covered include different research and medical fields: cell and molecular biology, genetics, pharmacology, medical imaging, space medicine research, animal experimentation and physiology. The course will be entirely taught in English.

This intensive training is open to all French and International students who already **have completed 2 years** of medicine/biological sciences/pharmacy and who may be interested in pursuing a M.D., M.D. /Ph.D. or Ph.D. programs and envision a career in scientific and/or medical research.

2 Course Objectives

The purpose is to give students the opportunity to be exposed to medical research, in an academic medical environment and to facilitate their accession to advanced course degrees such as MD or Pharmacy/PhD programs. During the course they will:

- be exposed to research methods and state of the art medical devices and technologies in different medical fields
- meet international researchers and interact with European students in an intercultural and interdisciplinary context

In this program a total of 70 hours with:

- **Lectures from international researchers** (45 minutes) followed with questions and debate
- **Research workshops** organized with small groups of students
- **Oral Presentations** from students on selected topics
- **Visits of research institutions**



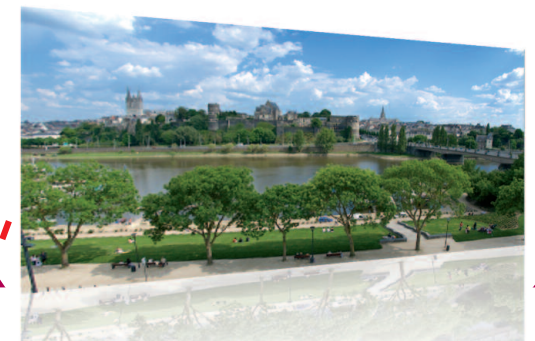
3 Course Site: Angers Medical School



Angers is a beautiful medieval city located in western France, with a unique 12th century Fortress and the world's greatest medieval tapestry. With a population over 160,000 inhabitants, the city is very green and surrounded by a great number of parks and gardens. With more than 19 000 students, Angers offers a dynamic lifestyle with frequent cultural exhibitions and festivals.

As one of the oldest in France, the Medical School of Angers started its teaching activities in 1433. It is in close proximity of the **University Hospital Center (CHU)**, where more than 850 medical students and residents are welcomed each year.

The **international policy** and the **early exposure to research** are some of the main priorities of the establishment which allow 50% of the students to go abroad during their study. A certain number of them also validate a first year in research master at the same time as their medical study and regularly participate to the **INSERM School**.



4 Program

International researchers from different European universities (Angers, Nantes, Moscow, Bristol, Ulm, Tübingen, Bologna, Szeged, etc.) will be teaching on eight selected topics:

- 1 - From gene to clinical application
- 2 - From the proton to medical imaging:
Example of fMRI
- 3 - From chemistry to clinical trial
- 4 - From immune system to human disorders
- 5 - Informatics and medicine
- 6 - From microorganisms to medical microbiology
- 7 - From integrative physiology to space medicine research
- 8 - From animal experimentation to human diseases

Visits

Visits of international research institutes will be organized during the course such as **Neurospin** in Paris, **Cyclotron** in Nantes.

And a cultural component in which students will be attending concerts, museums and other events in the beautiful Loire Valley region, but also in Nantes and Paris.

5 Information about the program

Criteria for admission

The selection of students will be made considering their motivation, English proficiency and previous research experience, if any.

Application

Please complete the online application form and also submit a CV and a letter of motivation.
Enrolment is limited (max. 50 participants).

Pre-registration 2010: From 01.03 to 15.05

Registration fees: 500 Euros

(300 Euros for students from Angers's partner universities)
A grant provided by the University of Angers financially supports part of the summer school.
Fees include tuition, lodging, meals, scheduled excursions, and extracurricular activities during the course. Angers Summer School does not cover the cost of passports, visas, health insurance, or back and forth transport.

Provided materials

University library, study rooms, molecular biotechnology center, multimedia and videoconference room

A **certificate of attendance** will be delivered to the students.



Further information

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Research Summer School

University of Angers
Medical School

« Intensive Training for earlier exposure to research »

30TH JUNE – 14TH JULY 2010

