



SUMMER SCHOOLS

UNIVERSITY OF
ANGERS-**FRANCE**

*Share your knowledge with
international researchers and
students from different countries
and cultures.*

Research - Cancer - Ethics
Bioinformatics - Plant science
Mitochondrial medicine

www.summerschools.univ-angers.fr

ANGERS

SUMMER SCHOOLS ANGERS 2015



Angers is the historical, political and economic capital of Anjou, located in western France, in the Loire Valley, which is a UNESCO World Heritage Site famous for its wines and castles. Angers has a unique 12th century fortress which overlooks the River Maine and the world's largest medieval tapestry.

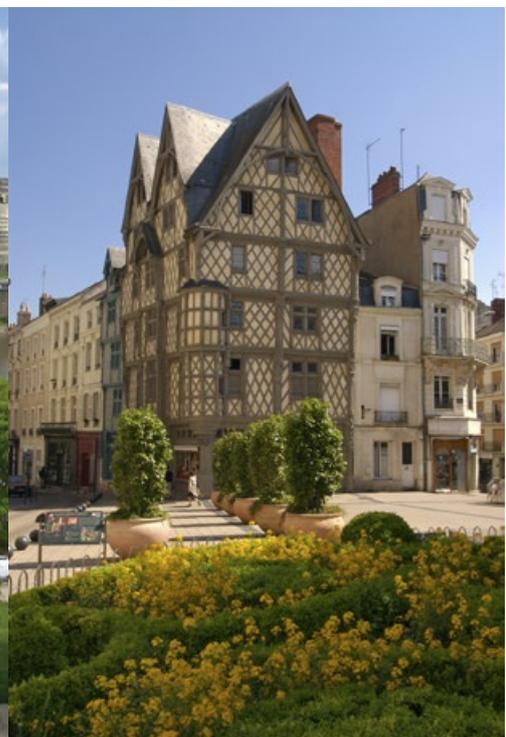
Regularly acknowledged in the national press as one of the leading cities in France for its quality of life and respect for the environment, Angers has now received the first award as "the greenest city in France".

With more than 30,000 students every year, in an urban area of 250,000, Angers offers a very dynamic lifestyle with frequent cultural events and festivals all year round. The city is a major centre for higher education and research. The University of Angers Medical School is close to the University Hospital Centre (CHU) and to the INSERM and CNRS national research laboratories.

Scientific program of the Summer Schools

During these summer schools the students will be exposed to research methods in different medical/scientific fields. They will have the opportunity to meet international researchers and interact with international students in an intercultural and interdisciplinary context.

The 55-hour programs include lectures by international researchers (max. one hour) followed by questions and discussion, workshops with small groups of students, visits to research institutions and, oral presentations on selected topics. Come to Angers and discover a new field in a motivating environment.



BIOINFORMATICS

SUMMER SCHOOLS ANGERS 2015



1st Edition 29th June – 10th July 2015 Faculty of Sciences University of Angers

Presentation:

Bioinformatics is an exciting new area of interdisciplinary science. The future of many biological and medical studies promotes smart use of computational tools as an essential knowledge in scientists background. The program developed in this summer school aims at bringing students the ability to conduct ambitious biological studies from big data analysis to extract relevant biomarkers to large scale models engineering in order to enhance biological production. Topics to be covered include different fields of bioinformatics: data processing of genomic data, optimization methods in systems biology, statistics and classification for biomarker extraction, meta-genomics and a few more. Focus is also made on valorization concerns and technology transfer. Workshops and visits of institutes in bioinformatics facilities are of course included.

Sessions:

- Plenary conference by Professor Gareth Williams.
- Warm up session : Informatics for beginners
- Session 1: Statistics and classification for genomic studies
- Session 2: Clinicobiological Databases in genetics
- Session 3: Applications and Pipelines "Next generation sequencing" (NGS) in genetics and genomics
- Session 4: Visit of Biogenouest Bioinformatics core facilities
- Session 5: Bioinformatics and Business companies
- Session 6: Microbial metagenomics
- Session 7: Mapping, Structural note and NGS Data management
- Session 8: Optimization methods for bioinformatics
- Session 9: Computer modeling of living systems: a guided tour to synthetic biology

Invited speakers (among others):

- G. Williams, Bristol, UK
- C. Dina, Nantes, FR
- L. Jourdan, Lille, FR
- D. Milea, Singapore, SG
- R. Redon, Nantes, FR
- A. Bockmayr, Berlin, DE

Criteria:

This program is ideal for those wishing to develop advanced skills in bioinformatics. Prior experience in computer science and computer programming is not required. This summer school is aimed at undergraduate students from 3rd year and graduate students (M. or Ph.D) in biological sciences / medicine / pharmacy / informatics / engineering or other scientific background.

PRACTICAL INFORMATION

SUMMER SCHOOLS ANGERS 2015

Social activities

Our summer schools not only offer you a fine selection of interesting courses and scientific visits, they also aim at giving their participants an unforgettable stay in France.

Therefore we offer all of our students an attractive social program, including excursions, sports, social gatherings and festivities.

The activities will provide the perfect setting for you to get to know one another!

A few examples of socio-cultural activities: Welcome barbecue, Kayak session, free afternoon/evening in Nantes and Paris, a day on the Atlantic Coast, a farewell dinner, etc.

These activities are mainly free (or cost no more than 5 euros).

Admission criteria

The selection of students will be made based on motivation, level of English and previous scientific experience, if any.

Application procedure

Application forms are available on the page "admission" of each school

The number of places is limited to 35 participants for each summer school.

Application deadline: 15th April 2015

Final answer about your selection: 1st May 2015

Registration and payment deadline: 15th May 2015

Fees

€700 which includes tuition, accommodation, lunches, scheduled excursions and extracurricular activities during the course. The Summer Schools do not cover the costs of passports, visas, health insurance, or travel to and from Angers.

Materials resources: access to the technological platform, university research labs, university library, study rooms, multimedia- and videoconference rooms.

Each participant will receive a binder containing all material presented in the summer schools, as well as a public transport tram/bus pass for the two weeks.

A certificate of attendance and 6 ECTS credits will be delivered to the students.

Housing and catering

Access to the university restaurants and residences.

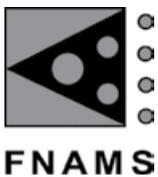
Fully furnished single rooms with bathrooms and showers. Shared kitchen but no crockery, cutlery or cooking utensils: Please bring it with you.

Facilities include: IT/study room, laundry room, TV lounge, computer room, security phone & badges, wheelchair access, sports facilities, a doorman and a car park. In order to access the Internet all students should bring their own cable.





Further information:
summerschools@univ-angers.fr



www.summerschools.univ-angers.fr

