EUROPEAN CYTOGENETICISTS ASSOCIATION (E.C.A.)

European Advanced Postgraduate Course in Classical and Molecular Cytogenetics

Director: Prof. Jean Paul Bureau, Montpellier/Nîmes - France

Objectives

The course is designed to provide advanced training in constitutional, haematological, and oncological cytogenetics to medical graduates, pharmacists, pathologists, biologists, health professionals and researchers, with an academic qualification. The students will be trained to identify genetic abnormalities for diagnosis and prognosis, and for fundamental and applied research using both classical and molecular cytogenetic techniques. The course is co-organized by E.C.A. and two French Universities, either as a stand-alone course with only the theoretical part or as a University Diploma including both theoretical and practical training. In 2009, the course was given **45 European CME credit points** (ECMEC, European Accreditation Council for Continuing Medical Education). An application for CME points will also be made for 2010.

Topics see the other side.

Practical information

Theoretical training: A ten-day course held in February/March of each year.
Venue: Faculty of Medicine, Nîmes, France. *Accommodation:* a hotel close to the Medical Faculty.
Official language: English.
Practical training: A training of maximum 2 months in a laboratory of your choice. A list of laboratories is provided during the theoretical course.
Assessment: There is an examination in June and another one in September (rescue session) for those students who are registered at one of the universities for a diploma.
Examination format: a written test (three questions) and an oral examination including a presentation (10-15 min) related to the practical training. At the end of each session the results of the examination are assembled by the administration, signed by the examiners, and sent to the Dean of the Faculty where the student is registered.

Nîmes arena

Registration

Registration opens in September and closes on January 30th.
To register please send a letter of application together with your CV by e-mail to one of the organizers mentioned below. If you are accepted you will receive a registration form.

Université Paris-Descartes
Prof. Jean-Michel DUPONT
Laboratoire de Cytogénétique,
Groupe Hospitalier Cochin
Saint Vincent de Paul
123 Bd Port Royal, 75014 Paris, FRANCE
e-mail: jean-michel.dupont@cch.aphp.fr

Université de Montpellier / Nîmes
Prof. Thierry LAVABRE-BERTRAND
Laboratoire de Biologie Cellulaire
et Cytogénétique Moléculaire
Faculté de Médecine Montpellier-Nîmes,
Avenue Kennedy, 30900 Nîmes, FRANCE
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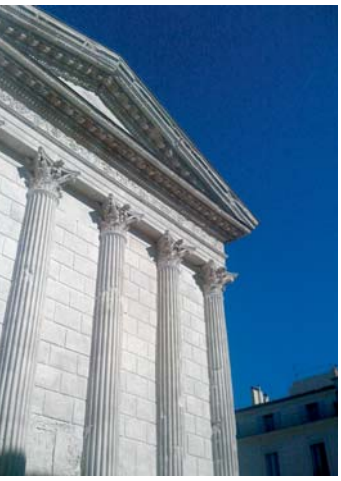

Maison carrée

Registration fees

Payment can be made either by bank transfer, or a cheque drawn on a French bank.
E.C.A. registration includes hotel accommodation in Nîmes (on the bases of a shared double room, an extra fee will be charged for a single room).

Theoretical course only
E.C.A. registration: €900 for E.C.A. members and €1000 for non-E.C.A. members.

Theoretical course and practical training
E.C.A. registration: €650 for E.C.A. members and €750 for non-E.C.A. members.
University registration: varies from €850 (if paid by individuals) to €1400 (if paid by institutions) and depends also on individual status (experience, citizenship of a European Union country).

2010 Course
preliminary program

- Techniques of cell culture. Chromosome staining methods (Q-, G-, C-, R- banding etc, high resolution banding)
- ISCN 2009
- Techniques and methods in microscopy
- Structure of interphase chromatin up to metaphase euchromatin, heterochromatin and its relation to chromosome banding
- Chromosome abnormalities and reproductive problems. Groups at risk in population. Ultrasound markers of chromosomal abnormalities
- CGH Array, new methods in cytogenetics (QPCR, MLPA, QMPSF)
- Imprinting, Beckwith-Wiedemann syndrome
- Prenatal chromosome diagnosis. Indications, methods, and interpretation
- Prenatal diagnosis. Non invasive method using DNA-PCR and foetal cells in maternal blood
- Clinical cytogenetics I: Numerical and structural abnormalities of the autosomes. Autosomal trisomies
- Clinical cytogenetics II: Abnormalities involving the sex chromosomes
- Mosaicism
- Plant Cytogenetics
- Quality assessment
- Ring chromosomes
- Genetic counselling and ethical issues in cytogenetics
- Pre-implantation diagnosis
- Micro-deletion syndromes and screening for sub-telomeric rearrangements
- Molecular cytogenenetics: production and use of molecular probes
- Plasticity of the human genome
- Molecular cytogenetic approach in cancer cytogenetics
- MFISH. Principle and methods. Application in constitutional, heamatological and oncological cytogenetics
- Cancer cytogenetics. Introduction, mechanisms. Solid tumors, hematologic malignancies, and lymphomas
- Diagnosis of predisposition to cancer
- Chromosome instability syndromes
- Chromosome mutagenesis
- From cytogenetics to clinical applications in onco-haematology
- Evaluation of the course by the students

The European Cytogeneticists Association offers two **fellowships** for the **European Advanced Postgraduate Course in Classical and Molecular Cytogenetics** to candidates of excellence. The Education Committee of the E.C.A. will select the suitable candidates. The fellowships include the E.C.A. registration fees of the course (the stand-alone or the university diploma). This includes accommodation during the theoretical course in Nîmes but not during the practical training in one of the participating laboratories. The fellowships do not include any travel expenses or the university registration fees.