

ESMTB Infoletter

March 2010



www.esmtb.org

Dear colleague

with this ESMTB Infoletter you receive information about conferences, workshops, schools and open positions. Please send relevant information to be included in the next ESMTB infoletter to info@esmtb.org.

Best regards, Andreas Deutsch
Dresden, 15th of March 2010

Conferences

4th ESF Conference on Functional Genomics and Disease at Dresden, Germany

Date: 2010-04-14 to 2010-04-17

Developments in functional genomics technologies together with the expanding concept of systems biology have led to exciting possibilities for the understanding of disease mechanisms. Following three highly successful conferences in Prague, Oslo and Innsbruck this conference will bring together world leaders in the field to discuss the challenges ahead and the technologies that will lead to novel solutions.

Over 250 attendees have already registered. Register your attendance today to avoid disappointment. Why you should be there!

Join us for a packed 4-day programme, featuring over 60 presentations.

Hear from over 40 prestigious, international speakers about the latest developments in functional genomics and disease.

Be part of our Parallel Symposia, hosted in collaboration with the European Commission and Directorate of Health.

With sessions from the following consortia: AffinityProteome, AtheroRemo, BBMRI, ENFIN, ELIXIR, HEROIC, LIPIDOMICNET, LUPA, PROSPECTS, READNA, SIROCCO and SYBILLA.

Liaise with our exhibitors regarding their services, technologies and developments in this scientific field.

2010 topics include:

- Whole genome associations
- Comparative genomics
- RNomics & miRNA
- Proteomics
- Epigenetics
- Regulatory networks
- Systems biology
- Personalised medicine
- Oncogenomics
- Neurogenomics
- Ageing
- Lipidomics
- Bioinformatics
- High throughput technologies
- Affinity proteomics
- Biobanking

<http://www.esffg2010.org/>

3rd International Congress on Stem Cells and Tissue Formation at Dresden, Germany

Date: 2010-07-11 to 2010-07-14

We cordially invite you to attend the 3rd International Congress on Stem Cells and Tissue Formation from July 11th to 14th 2010 in Dresden, Germany. This congress is organized every second year by the Dresden stem cell community, which includes the DFG-Research Center for Regenerative Therapies Dresden (CRTD) www.crt-dresden.de and the Collaborative Research Center (SFB 655) "Cells into Tissues" www.sfb655.de.

Based on our experiences with the congresses in 2006 and 2008 we expect about 1000 scientists from all over the world to attend this exciting meeting. In 2010 the conference will focus on stem cells including their niches, reprogramming and the for-

mation of tissues of multiple organs, such as the CNS, pancreas, skin, heart and the hematopoietic system. In addition, we will specifically address systems biology, biomaterials research (the Max Bergmann Symposium 2010 will be part of the conference, emphasizing biomaterials for stem cell engineering), clinical developments in the area of regenerative medicine and cell-based therapies.

Main topics for abstract submissions:

- Mesenchymal and Hematopoietic Stem Cells
- Neural Stem Cells and Axonal Regeneration
- Differentiation of Embryonic Stem Cells
- Stem Cell Niches
- Spermatogonial Stem Cells
- Cancer Stem Cells
- Cardiovascular Stem Cells
- Islet Cell Regeneration
- Regeneration of Ectodermal and Endodermal Derivatives
- Animal Models for Regeneration
- Tissue Formation supported by Biomaterials
- Clinical Studies in Regenerative Medicine
- Biology of induced pluripotent Stem Cells
- Diabetes

<http://www.stemcellcongress-dresden.org>
<mailto:info2010@stemcellcongress-dresden.org>

XXX Dynamics Days Europe 2010 at University of Bristol, Bristol, UK

Date: 2010-09-06 to 2010-09-10

Dynamics Days Europe is a major annual international conference aimed at bringing together theoretical and experimental scientists from a variety of disciplines, including nonlinear dynamics, theoretical physics, fluid dynamics and mathematics.

University of Bristol is proud to host the XXX Dynamics Days Europe, which will take place on 6-10 September 2010 in Bristol, United Kingdom, starting on Monday morning and finishing on Friday noon. Conference will consist of invited presentations, mini-symposia, a limited number of contributed talks, and all participants are encouraged to submit poster presentations.

On Wednesday, 8th September 2010 there will be an excursion around the city of Bristol followed by the conference dinner.

The main topics of the conference are:

- Molecular Dynamics
- Quantum Systems
- Multiple Time-Scale Dynamics
- Traffic Modelling
- Sustainable Energy
- Networks and Synchronization
- Waves and Chaos
- Mathematical Biology
- Engineering Applications

The deadline for abstract submission is 7th May 2010. Notification of acceptance is 28th May 2010.

<http://www.enm.bris.ac.uk/anm/ddays10/index.html>
<mailto:ddays-2010@bristol.ac.uk>

Workshops

Second International Workshop-School "Chaos and Dynamics in Biological Networks" at Institut d'Etudes Scientifiques de Cargèse, Corsica, France

Date: 2010-05-03 to 2010-05-08

The main goal of this second International Workshop is to develop the mutual interaction between specialists from biology, nonlinear dynamics, physics and mathematics.

More and more works show that biological systems have non linear dynamics, so they may have also chaotic behavior and strange attractors. In neural systems new observations show that chaos appears both on the level of one neuron and on the level of large networks. In population dynamics, chaos has been observed in experimental cultures and seems to be important in the diffusion of transmitted diseases in social networks. It becomes obvious that there is a challenging demand for studying and modeling complex dynamics of biological systems in order to describe various modes and activities. In particular, there is a need to understand the interplay between non linearity and stochasticity of biological processes.

The workshop will gather specialists from several horizons lecturing and discussing on the achievements and perspectives both fundamental and applied, not excluding junior scientists and PhD students.

List of topics:

- Neurodynamics
- Population dynamics and Epidemiology
- Genetic networks
- Biological rhythms

Deadline for registration and submission of abstracts is April 15, 2010. The registration fees are 500 Euros. They include the accommodation, lunches, coffee break, etc. Dinners and Sunday meals are not included. An additional charge will be asked for an individual room or for accompanied people.

Grants might be available to cover fees and, eventually, part of travel expenses. Application for support should be accompanied by a short curriculum vitae, a summary of research activities or one recommendation letter by a confirmed researcher. Final decision will be made at April 10, 2010.

<http://ecologie.snv.jussieu.fr/chaosbionetwork>
<mailto:chaosbionetwork@gmail.com>

ACA 2010 - First International Workshop on Asynchronous Cellular Automata at Ascoli Piceno, Italy

Date: 2010-09-21 to 2010-09-24

Cellular Automata are a well-known formal model for complex systems that is used in many scientific fields and applications. Synchronicity is one of the main features of Cellular Automata evolutions. Indeed, all cells of common Cellular Automata are updated simultaneously at each discrete time step.

Recent trends consider the modelling of asynchronous systems based on local interactions. The aim of this workshop is to bring together researchers dealing with the theme of the synchronicity inside Cellular Automata in order to foster their interaction and to provide a forum for presenting new ideas and works in progress on the subject.

Topics of either theoretical or applied interest include, but are not limited to the following aspects of Asynchronous Cellular Automata

- dynamics
- complexity issues
- computational issues
- emergent properties
- models of parallelism and distributed systems
- models of phenomena from biology, chemistry, physics, engineering and other fields

Authors are invited to submit papers according to two contribution categories – full and short papers – meant to provide a differentiation of the papers in terms of their length, depth and/or maturity. Papers must comply with the Springer-Verlag format (see <http://www.springer.com/computer/lncs>) and the maximum length of 5 and 10 pages for short and full contributions, respectively. Details on the electronic submission procedure will be provided through the website of the ACRI conference (<http://www.acri2010.disco.unimib.it/>).

Accepted papers will be published by Springer-Verlag in a volume of the Lecture Notes in Computer Science (LNCS) series. This volume will be available by the time of the workshop.

It is also planned that selected papers will be considered for publication in a Special issue of Natural Computing. They will contain refereed extended versions of selected papers presented at ACA workshop.

Paper submission: March 19, 2010

Notification of paper acceptance or rejection: April 16, 2010

Final version of the paper for the proceedings: May 7, 2010

Conference: September 21-24, 2010

<http://www.acri2010.disco.unimib.it/workshops.html>

Schools

The Helsinki Summer School on Mathematical Ecology and Evolution 2010 at Linnasmäki Conference Centre in Turku, Finland

Date: 2010-08-22 to 2010-08-29

This is the second school of a biennial series of international summer schools on mathematical ecology and evolution in Finland, organised by the Biomathematics Group of the University of Helsinki. The school consists of graduate-level lectures on five topics at the research frontier, covering both subjects of mathematics outstandingly important in the field and subjects of biology of current interest.

The 2010 school will be held between 22 and 29 August 2010 in the Linnasmäki Conference Centre in Turku, Finland. The deadline for applications is 15 April 2010.

Topics and lecturers

- Evolutionary game theory: Karl Sigmund (University of Vienna)
- Bifurcation analysis: Yuri Kuznetsov (University of Utrecht)
- Stochastic differential equations: Carlos Braumann (University of Evora)
- Population genetics: Reinhard Bürger (University of Vienna)
- Stochastic models for epidemics: Tom Britton (University of Stockholm)

Program

The school will be a week of high-speed, concentrated effort where most of the time is allocated to lectures. In addition, round-table discussions will foster informal interaction between students and lecturers. At the beginning of the school, all students will introduce themselves briefly (2-3 minutes, 1 overhead sheet each) to help people of similar interests to find one another and engage in informal discussions.

Application

All PhD students and young researchers working in mathematical ecology/evolution can apply from all countries, especially from Europe and the Mediterranean. The school is organised primarily for PhD students of mathematics. We also welcome advanced undergraduates, postdocs, and biologists with sufficient background in mathematics.

Application is by email to petr.ondracek [funny character] helsinki.fi. The application should contain

- full contact data (name, affiliation, postal address, email address, phone and fax)
- a brief CV containing prior studies and/or positions
- a 1-paragraph description of scientific interest and motivation
- list of publications (if any)

The school can accept 40 students. The deadline for applications is 15 April 2010 and we shall notify all participants by 30 April. There is no fee for registration.

<http://wiki.helsinki.fi/display/huippu/mathbio2010>
<mailto:eva.kisdi@helsinki.fi>