

>> Invitation to FEBS-SysBio2009

On behalf of the Scientific Advisory Board, it is a pleasure to invite you to the third FEBS Advanced Lecture Course on **Systems Biology: From Molecular Biology to Biological Function**.

Systems Biology is one of the most prominent newly emerging interdisciplinary science areas. By connecting fields such as genomics, proteomics, cell biology, medicine, molecular biology and genetics, with mathematics, bioinformatics, engineering and computation, it enables discovery of yet unknown principles underlying the functioning of living cells. At the same time testable and predictive models of complex cellular pathways and eventually of whole cells are generated, which are useful for efficient experimental design and bioengineering and the network-based design of drugs and therapies. FEBS-SysBio2009 will cover of SysBio from principles and methods essential and state-of-the-art aspects through the modeling of living systems to applications in biotechnology and medicine.

The Federation of the European Biochemical Societies, FEBS, is the main sponsor of this exciting event. Additional contributions (see below) from key Systems Biology funding organizations, from learned societies, from Systems Biology centers and from companies facilitate the organization of FEBS-SysBio2009 and the participation of its students.

We were able to commit many leading experts to participate as lecturers, tutors, black-board teachers and informal poster discussants and we are thus confident that **FEBS-SysBio2009** will again be an outstanding lecture course with an excellent scientific program. It will open the doors for regular student training in Systems Biology in Europe, provide a basis for a human network of young Systems Biology experts, and provide a centre for other Systems Biology discussions between scientists and funders.

We are looking forward to welcoming you in Alpbach, Austria.

The Course Organizers

>> Scientific Programme

Plenary Symposia will each be introduced and moderated by the indicated chair person. Lecturers will then discuss their methodologies, discuss these in detail with the students and then show their most recent Systems Biology discoveries.

Symposium 1 **Foundations of Systems Biology**
(Chair – Erik Mosekilde)

C. Goble, R Aebersold, U Sauer

Symposium 2: **Systems Biology in Space**
(Chair – Hans Westerhoff)

P Bastiaens, M White, B Kholodenko

Symposium 3: **The proof of the pudding**
(Chair –Uwe Sauer)

E Klipp, S Hohmann, J Beggs, I Goryanin, R Brent

Symposium 4: **The dynamic genome**
(Chair – Frank Bruggeman)

C Carlberg, J Ferrell, B Novak

Symposium 5: **Making Systems Biology work**
(Chair – Adriano Henney)

R Weiss, D de Graaf, P Tass, S-Y Lee

>> List of Confirmed Invited Lecturers & Chairs

Ruedi Aebersold
Jean Beggs
Carsten Carlberg
David Fell
Carole Goble
Adriano Henney
Marc Huett
Boris Kholodenko
Sang Yup Lee
Luis Serrano
Peter Tass
Jens Timmer
Mike White

Philippe Bastiaens
Roger Brent
David de Graaf
James Ferrell
Igor Goryanin
Stefan Hohmann
Jeroen Jeneson
Ursula Klingmüller
Erik Mosekilde
Jaroslav Stark
Bas Teusink
Ron Weiss

The SysBio Course will also host two integrated **Opening Lectures** (Bela Novak and t.b.a). **Denis Noble** will give a **Keynote Address**. Both lectures and a **debate** will address the man-on-the-moon like program towards **the virtual/digital human**.

>> Oral Presentations

Selected **“Short Talks”** will be delivered during afternoon sessions by principal investigators, graduate students and postdocs. These presentations will be selected by the Scientific Advisory Board on the basis of submitted abstracts.

>> Poster Session and Dialogues

The poster session represents a vital part of the SysBio Course. All abstracts not selected for oral presentations will be on display as **posters during the entire course** to provide ample time for informal discussions among students, participants and lecturers. In small-group sessions lecturers will provoke **discussions about the posters** and about careers and research plans with the individual students.

>> Blackboard Teaching

In Black board teaching sessions teachers carefully selected for this mode will explain in the simplest possible terms and in highly interactive mode, principles and methodologies.

>> Preparatory Teaching

On the Saturday, before the official course begins, there will be getting-up-to-speed courses in both mathematics and cell biology, for interested students.

>> Computer Practicals

Computer practicals will demonstrate modern modeling and data analysis tools hand on.

>> Tutorials

Lecturers will explain their systems biology methodology in detail in interaction with the students during tutorial sessions.

>> Young Investigator Awards

All abstracts with graduate students or postdoctoral fellows as **first authors** are subject to scientific evaluation by selected members of the SAB. The best **abstract in each topic** (5 in total) shall receive the **“SysBio2009 Young Investigator Award”**.

>> Satellite meetings

Satellites are being planned, e.g. EraSysBio, MOSES/SysMO (cf. website for updates)

>> Important Dates & Deadlines

November 28, 2008

Deadline for YTF grant application

December 12, 2008

Deadline for online registration and abstract submission via <http://www.febs-sysbio2009.org>

January 21, 2009

Letters of acceptance and detailed course information will be e-mailed to all participants.

February 21, 2009

Deadline for any **last minute changes** and **last cancellation date** to obtain a refund.

>> Accommodation

The venue is the "**Congress Centrum, Alpbach, Austria**", since 1945 venue of the world famous annual European Forum. Accommodation is in various hotels and guesthouses within walking distance of the centre. Nearby skiing slopes strongly encourage informal scientific discussions in fresh air, rental gear and ski-passes at special FEBS-course discounts.

>> Travel to Alpbach

Alpbach is centrally located in between the airports of Munich (160km), Salzburg (150km) and Innsbruck (57 km) and the Express railway stations of Wörgl (25 km) and Jenbach (20km). We offer roundtrip shuttle transportation service to the venue from Innsbruck airport and express railway station Wörgl.

>> Social Program

An attractive social program is available. We shall visit Innsbruck. Alternatively, participants can explore the nearby towns of Rattenberg and Kufstein or the Swarovski Kristallwelten.

>> Application Procedure

The number of participants is strictly limited to ensure an efficient interaction between students and lecturers. We will accept a maximum of **122 students** or **post-docs** and **30 principal investigators**. Participants will be primarily selected on the basis of submitted abstracts. A **maximum number of students** per research group or laboratory may be instated.

A total of **32 FEBS Youth Travel Fellowships** are available (2 for students from Africa). Student applications for YTF grants must include a **one page CV** and **two letters of recommendation**. All applications for YTF grants must be made to the Organizers (Course Secretary) by **November 28, 2008** (<http://www.febs-sysbio2009.org>)

The **registration fees** are **770,- Euro** for students and postdocs, **1050- Euro** for academic senior scientists and **1500,- Euro** for participants from industry. The registration fees include **roundtrip shuttle transportation** from Innsbruck or Wörgl to Alpbach and **full board and lodging** (6 nights). **No payments** should be made before **notification of acceptance** has been received from the organizers.

Deadline for applications and abstract submissions:

December 12, 2008

All abstracts **must** be submitted via the **SysBio2009 home page**. Registration forms and detailed instructions for abstract submission are available at <http://www.febs-sysbio2009.org>

>> FEBS-SysBio2009 Course Office

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(Course Secretary)

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Hans V. Westerhoff

(Course Director)



Announcement FEBS-SysBio2009

3rd FEBS Advanced Lecture Course

Systems Biology:

**From Molecular Biology to
Biological Function**

March 7 – 13, 2009

Congress Centrum Alpbach, Austria EU

Organizers

Hans Westerhoff (The Netherlands, UK)

Karl Kuchler, Walter Glaser (AT)

Edda Klipp, Ursula Kummer (DE)

Frank Bruggeman, Anneke Koster (NL)

Uwe Sauer (CH), Jacky Snoep (RSA)

Supported by: **FEBS** Agilent Alpbachtal AstraZeneca

BCA BioSim BMBF Dechema DSM DTC-ISBML

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Novo-Nordisk Steinbeis Fdn. SystemsX-ch Unilever

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Marta Cascante

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Ursula Klingmüller

Sang Yup Lee

Steve Oliver

Jens Timmer

Roel van Driel

Lilia Alberghina

Barbara Bakker

Igor Goryanin

Douglas Kell

Hiroaki Kitano

Ursula Kummer

Erik Mosekilde

Bernhard Palsson

Masaru Tomita

Barry Wanner

**Deadline for online applications and abstract
submission: December 12, 2008**
<http://www.febs-sysbio2009.org>