

Friday, 14 October 2011
COURSE ON SYSTEMS BIOLOGY

- 10:00 Introduction to the Day
Georgios Skretas and Ignacio Rangel
- 10:15 Group Presentation of the Proposal Outline
- 12:00 Course Summary
Jana Jass, Dimitra Mitsiou and Georgios Skretas
- 12:15 Closing of the Conference and Course and Information on the Continued Activities
Michael Alexis and Per-Erik Olsson
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ÖREBRO UNIVERSITY



Course student participants:

IBEB-NHRF: E. Argyropoulou, D. Gialama, A. Kalaitzaki, V. Kyriakou, M. Logotheti, A. Meligkova, D. Zarafeta, S. Zerva

Örebro University: C.S. Bang, V. Basic, E.M. Elmarghani, R. Hussain, K. Jayaprakash, J. B. Kharlyngdoh, H. Mujahed, A. Pradhan, A. Teklu, B. Zhang

CAPE SOUNION



Organized by:

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Institute of Biological Research & Biotechnology (IBRB)

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Committee: Michael N Alexis, Dimitra J Mitsiou and Georgios Skretas

Örebro University:

School of Science and Technology, Örebro Life Science Centre (ÖLSC)

School of Health and Medical Sciences, Department of Clinical Medicine

701 82 Örebro, Sweden, 019-30 30 00

Committee: Per-Erik Olsson, Jana Jass, Nikolaos Venizelos, Allan Sirsjö

4th Swedish-Hellenic Life Sciences Conference & Course on Systems Biology

National Hellenic Research Foundation - Örebro University



10-14 October 2011,
Athens, Greece



Hosted by:

Institute of Biological Research & Biotechnology
National Hellenic Research Foundation

Conference Organizers:

Michael N. Alexis, Research Professor

NHRF, Greece.

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Monday, 10 October 2011
CONFERENCE ON SYSTEMS BIOLOGY

- 09:30 Registration
- 10:00 Introduction to Conference and Course
Michael Alexis, Per-Erik Olsson, Fragiskos Kolisis and Alex Pintzas
- Chair: [Michael Alexis and Per-Erik Olsson](#)
- 10:15 Systems Biology in Developmental Biology
Per-Erik Olsson
- 10:45 Systems Biology Approaches in Environmental Health Research
Soterios Kyrtopoulos
- 11:30 *Coffee break*
- 11:45 Bioinformatics Analysis of Cell Death by N-Methyl-N-Nitrosourea, a Model SN Methylating Agent, in Lung Cancer
Vassiliki Pletsa
- 12:30 Transcriptomics and Genetics of Cardiovascular Disease: Building a Human Biobank
Per Eriksson
- 13:15 *Light Lunch and Students Group Tour of NHRF*
- Chair: [Soterios Kyrtopoulos and Nikolaos Venizelos](#)
- 14:30 A Ribonomics Approach (RIP-Chip Assay) to Identify mRNAs Associated with HnRNPA1-Immunoselected RNP Complexes from wild-type or HuR-Depleted Mouse Embryonic Fibroblasts
Apostolia Gualis
- 15:15 Global Oncogenic Signatures: Towards New Markers and Rational Cancer Therapeutics Design
Alexander Pintzas
- 16:00 Combinatorial Techniques and Models to Study Aging *In Vitro* and *In Vivo*
Niki Chondrogianni
- 16:45 Summary of the Day
Nikolaos Venizelos and Soterios Kyrtopoulos
- 19:00 *Dinner (NHRF foyer)*
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Tuesday, 11 October 2011
CONFERENCE ON SYSTEMS BIOLOGY

- Chair: [Efstathios Gonos and Allan Sirsjö](#)
- 10:00 Collaboration Between Örebro and NHRF: a Win-Win Case
Aris Xenakis
- 10:15 **Docent Lecture:** Proteasome Activation Results in Global Changes of Cellular Proteolysis and Delays Aging *In Vitro* and *In Vivo*
Efstathios Gonos
- 11:15 *Coffee break*
- 11:30 A Transcriptomic Computational Analysis of Mastic Oil-Treated Lewis Lung Carcinomas Reveals Molecular Mechanisms Targeting Tumour Cell Growth and Survival
Olga Papadodima
- 12:15 Development of Bioinformatics Tools for the Identification of Transcription Factors Functional Motifs in Bacteria
Eleftherios Pilalis
- 13:00 *Light Lunch*
- Chair: [Alexander Pintzas and Jana Jass](#)
- 14:30 Combination of Molecular Biology Techniques, Computational Biology and Multivariate Statistics to Unravel the Composition and Complexity of the Intestinal Microbiota
Ignacio Rangel
- 15:15 An In-Silico Compartmentalized Metabolic Model of *Brassica Napus* Enables the Systemic Study of Regulatory Aspects of Plant Central Metabolism
Aristotelis Chatziioannou
- 16:00 Summary of the Day
Allan Sirsjö and Alexander Pintzas
- 16:15 Information on the Course Held at Hotel Eden
Michael Alexis and Jana Jass
- 16:30 Committee Meeting on Group Organization
Participating Teachers
- 20:00 *Dinner (Tavern 'Karavitis')*
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Wednesday, 12 October 2011
COURSE ON SYSTEMS BIOLOGY

Wednesday Morning Transfer to Hotel Eden

- 13:00 Introduction to the Course
Jana Jass, Dimitra Mitsiou and Georgios Skretas
- 13:30 Presentation of Case Study
- 13:45 *Coffee break*
- 14:00 Group Exercise on Case Study
- 16:00 Five-Minute Presentation of Case Study by Each Group
- 16:45 Group Preparation of Proposal (till 19:00)
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Thursday, 13 October 2011
COURSE ON SYSTEMS BIOLOGY

- 09:00 Introduction to the Day
Dimitra Mitsiou and Nikolai Scherbak
- Chair: [Per-Erik Olsson and Michael Alexis](#)
- 09:15 Proteomics: A Valuable Tool for Global Characterization of the Cell's Response to Prospective Chemopreventive Agents
Michael Alexis
- 09:45 Coactivation of GR and NFKB Leads to Extensive Rearrangement of their Binding Sites and Target Genes
Dimitra Mitsiou
- 10:25 Directed Evolution of Small-Molecule Cancer Therapeutics
Georgios Skretas
- 10:45 Group Preparation of Proposal (till 19:00)
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