

ΠΑΝΕΠΙΣΤΗΜΙΟ ΚΡΗΤΗΣ
Τμήματα Βιολογίας και Χημείας



UNIVERSITY OF CRETE
Depts. of Biology & Chemistry

Πρόγραμμα Μεταπτυχιακών Σπουδών
Πρωτεϊνικής Βιοτεχνολογίας

Joint Graduate Program in
Protein Biotechnology

*SUMMER SCHOOL
on Protein Biotechnology
Crete, Greece*

26-27 MAY 2010

Place:

**Foundation for Research and Technology - Hellas (FORTH)
IMBB, Forth- Stelios Orfanoudakis seminar room
Heraklion, Crete**



The University of Crete and the Institute of Molecular Biology and Biotechnology wish you a warm welcome to Crete Summer School on Protein Biotechnology 2010.



AIMS:

The summer school aims to bring MSc & PhD students and researchers to Crete on May 2010, to attend lectures given by world class researchers in the following areas:

- Protein and peptide assembly in disease
- Yeast evolutionary engineering and phage -display selection of peptides
- Design of biomimetic materials
- Genetically engineered peptide-based technologies



Specifically, the aims of the school are:

- To present the latest developments and current methodologies in Protein Biotechnology
- To cover both fundamental issues as well as practical applications in the area
- To encourage personal interaction thought stimulating discussions and poster session
- To promote contacts between attendants
- To encourage students and young researchers to consider future career plans

Audience:

- MS and PhD students in Life sciences or Natural Sciences working on biological systems
- Final year undergraduate students
- Researchers

INVITED SPEAKERS :

<u>Prof. Ehud Gazit</u>	Department of Molecular Biology and Biotechnology, Vice-president for Research and Development, Tel-Aviv University, Israel	http://www.tau.ac.il/lifesci/departments/biotech/members/gazit/gazit.html http://www.tau.ac.il/president/vp-rd-e.html
<u>Prof. Candan Tamerler</u>	Department of Molecular Biology and Genetics, Istanbul Technical University, Turkey And Department of Materials Science and Engineering, University of Washington, USA	http://depts.washington.edu/bionano2/people.shtml http://www.bio.itu.edu.tr/tamerler/

Unfortunately Prof. Tamerler due to a last minute health problem, had to cancel her trip.

PROGRAM

Protein Biotechnology Summer School 26-27 May 2010

IMBB, Forth Stelios Orfanoudakis seminar room - Heraklion - Crete

Program

Wednesday 26 May 2010

09:30 - 10.00 Arrivals - Welcome - Opening

10.00- 11.15

Michael Saitakis

"Preparation of T cell clones for two-dimensional characterization of TCR/pMHC binding.

Alexandros Pantazis

"A membrane-supported acoustic biosensor device."

Paravidaki Maria

"Method validation for pharmaceutical drugs by using high pressure liquid chromatography (HPLC)."

11:15-12.00 - Coffee Break

12:00 -13.00 Prof. Ehud Gazit

"Organic Nanotechnology for Technological Applications: From Biopharma and Materials to Energy Storage and Surface Modification"

NB: Prof. Gazit's lecture will take place at the main ITE amphitheater

13:00 - 14:00 Lunch Break

14:00 - 15:00 Posters

15:00 - 16:15

Maria Ambrazi

"Redesigning the self-assembly of α -helical bundles towards nano-fibrils."

Vasilakos Byron

"Investigation of the self-assembly process in amyloid-forming peptides that contain aromatic amino acid residues."

Katerina Chatzi

"The signal peptides regulate the secretion efficiency."

16:15 - 17.00 Coffee Break

17:00- 18.00 Round Table

"Technology transfer and exploitation of biotechnology results"

co-ordinator: Prof. Ehud Gazit

Thursday 27 May 2010

09:30- 10.00 Arrivals

10.00 - 11.15

Marios Frantzeskos Sardis

"Long-range interaction between the motor and the preprotein binding domain of SecA."

Afroditi Chatzi

"Biogenesis of Mia40, a key component of the mitochondrial oxidative folding pathway."

Prigipaki Ariadne

Expression and structural characterization of proteins from the Adenovirus fiber shaft towards the design of new nanobiomaterials.

11.15 - 12.00 Coffee Break

12:00 - 13:15

Balomenou Stavroula

Peptidoglycan *N*-Acetylglucosamine Deacetylases from *Bacillus anthracis*.

Antigoni Nikolaki

"Study of the outer membrane proteome of the bacterium *Pseudomonas sp. phDV1* grown in different carbon sources."

Arnaouteli Sofia

Polysaccharide deacetylase BA0331 from *Bacillus anthracis*."

13:15 - 14:15 Lunch Break

14:15 - 15:15 Posters

15:15- 16.00

Portaliou Athina

"Analysis of the secretome of enteropathogenic *Escherichia coli*."

Orfanoudaki Georgia

"Secretory protein features and prediction of localization using machine learning tools."

16.00 Closing comments

POSTERS DEADLINE: 25th May 10

Participants will have the opportunity to present their research work during a poster session. This dedicated session will allow researchers to present and discuss their work with invited speakers and other participants. Posters will be selected by the Organizing Committee of the Protein Biotechnology.

Detailed instructions for posters ⇒ probiotech@biology.uoc.gr

External final year undergraduate students, Master's/PhD graduate students or researchers are welcome to attend the sessions and may present a poster if they wish.

CONFERENCE SITE:

The Conference is co-organised between the Departments of Biology and Chemistry of the University of Crete and the Institute of Molecular Biology and Biotechnology - Foundation of research and technology (IMBB-FORTH-<http://www.imbb.forth.gr/>).

The lectures will take place in Foundation for Research and Technology - Hellas (FORTH), Heraklion, Crete (<http://www.forth.gr>), which is located near a village called Vassilika Vouton (<http://www.interkriti.org/iraklion/map/>).

Foundation for Research and Technology - Hellas (FORTH)
Institute of Molecular Biology and Biotechnology
Nikolaou Plastira 100, Vassilika Vouton
GR - 700 13 Heraklion, Crete, Greece

CONTACT:

Dr. Anna Mitraki
mitraki@materials.uoc.gr

Prot Biotech Secretariat
probiotech@biology.uoc.gr