

Theme: V. Nanomedicines: Biocompatibility Issues:

Y. Missirlis (Patras, GR) "Nanomedicines and Biocompatibility" **G. Michanetzis** (Patras, GR) "Evaluation of Haemocompatibility of Nanomedicines" The Haemocompatibility of Nanomedicines – Has it been underestimated?
Poster Session 1

Thursday, September 18, 2008

Conference Center, Univ. of Patras / ICEHT

Morning (9.00 -12.30)

(Theme: V . Continued) **M. Moghimi** (Copenhagen, DK) "Nanoparticles and Complement activation"

Visit to FORTH_ICEHT Presentation of Institute by President Prof. C. Galiotis, and tour in Institute Laboratories and Facilities

Afternoon (14.30 – 18.30)

Oral delivery – *Absorption Issues*

P. Constantinides (Gurny, USA) Self-assembled lipid nanostructures in drug delivery: physicochemical and biopharmaceutical aspects
R. Kumar (Glasgow, UK) "Nanomedicines: The potential of biodegradable nanoparticles for peroral drug delivery".
D. Fatouros (Portsmouth, UK) "Oral delivery of SNEDDS formulations: Physicochemical characterization of their lipolytic products in the GI tract"
C. Reppas (Athens, GR) "Absorption of drugs administered in lipids"

Poster Session 2

Friday, September 19, 2003

Conference Center, Univ. of Patras

Morning (9.30 -12.30)

Special Issues in Nanomedicines

J. Bouwstra (Leiden, NL)-Skin Delivery I]. Skin structure and transdermal and dermal delivery II]. Nanoparticulate systems for dermal delivery including vaccination.

R. Schiffelers (Utrecht, NL) *Therapeutic Applications* Selected Therapeutic examples in I] Inflammatory diseases II] Cancer

Special constructions

S. Sofou (N.Y, USA) "pH controlled lateral phase separation on lipid bilayer membranes: applications in liposome-based drug delivery"

Afternoon (14.30 – 18.30)

"Calcium phosphate cements for clinical applications" **N. Bouropoulos** (Patras, GR) Part A: Synthesis & applications **D. Mouzakis** (Patras, GR) Part B: Biomechanical Properties & Characterization

G. Voyatzis (Patras, GR) "Antimicrobial cross linked polystyrene nanospheres for specialty multifunctional textile production"

A. Bakandritsos (Patras, GR) "Synthesis and Characterization of Nanoparticulate Magnetic Colloids Towards Biomedical Applications."

Saturday –Monday September 20-22

Practical courses- Course evaluation and test.

Organizing Committee: S.G. Antimisiaris, P. Klepetsanis, S. Mourtas, V. Ntimenou, P. Hatzis, S. Duraj, C. Loi, M. Kastellorizios

Registration Information:

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<http://www.pharmacy.upatras.gr/nanomedicines08/>



4th International Intensive Course & Workshop:

**Nanomedicines-
Nanoparticulates for Drug
Delivery**

**(& GALENOS THEMATIC
WORKSHOP)**

www.pharmacy.upatras.gr/nanomedicines08



September 11-22, 2008

Galenos is a University Network
The IP is financed by **Marie Curie, Erasmus, ICEHT-FORTH University of Patras &**

**Department of Pharmacy -
Conference Center, Univ. of Patras,
&
ICEHT-FORTH,
Patras, Greece**

Thursday, September 11, 2008

ARRIVAL TO PATRAS

Arrival for IP – students / organizers / instructors

Afternoon: Orientation Welcome Reception

Friday, September 12, 2008

Dept. of Pharmacy, Univ. of Patras

1st Day- **Introduction in Nanoparticles for Drug delivery Applications** (Focus on Liposomes)

Introductory Lectures & Practicals – Demonstrations of Liposome/particle Preparation techniques

S.G. Antimisiaris- P. Klepetsanis- S. Mourtas

Morning: 9.30 – 12.00

Afternoon: 14.00 – 18.00

Saturday, September 13, 2008

Dept. of Pharmacy, Univ. of Patras

2nd Day Introduction in Liposomes /

Demonstrations of Techniques for characterization and evaluation of performance of nanoparticles in general

P. Klepetsanis, N. Bouropoulos, D. Mouzakis

Visit to FORTH- ICEHT (informal for workshop students)

(Arrival day for Marie Curie Thematic Meeting)

Morning: 9.30 – 12.00

Afternoon: 14.00 – 18.00

Sunday, September 14, 2008

Cultural Event Day

Monday, September 15, 2008

Conference Center, Univ. of Patras / ICEHT

Opening Ceremony (by a representative from Patras University)

09:00 - 10:30 Key Notes (2 Speakers:

Gregoriadis, Macheras)

G. Gregoriadis (London, UK) “General

Introduction on Liposomes in Drug Delivery - Challenges”

P. Macheras (Athens, GR) “Biopharmaceutic-Pharmacokinetic Issues related to Drug Delivery”

Coffee Break

Euro-PhD presentations (8 presentations, 15 min)

Buffet Lunch

Euro-PhD presentations (7 presentations, each 15 min)

Euro-PhD award ceremony

Coffee Break

Galenos Marie Curie Consortium Meeting (for professors) at ICEHT

Management Training (for the students)

Evening: Galenos-Dinner for all Fellows and Supervisors of the Galenos Marie Curie Project

Tuesday, September 16, 2008

Conference Center, Univ. of Patras

Morning (9.00 -12.30)

Theme: I. Liposomes –Nanomedicines- Biopharmaceutic/ Pharmacokinetic Issues

E. Fattal, (Paris, FR) “Liposomes for antisense and siRNA delivery”

A. Fahr (Jena, DE) “Photodynamic therapy using liposomal formulations”.

Liposomes and other administration routes

E. Fattal, (Paris, FR) “Liposomes for intraocular delivery of biotech products “

A-M. Fadda (Cagliari, IT) “Liposomes and niosomes for cutaneous drug delivery “

Afternoon (14.30 – 18.30)

C. Ehrhardt, (Dublin, IR) "Liposome aerosols in cancer therapy"

Theme: II. Nanomedicines: Technological advances

J. Kristl (Ljubljana, SL) to be announced)

C-M Lehr (Saarbruecken, D E)

"Nanotechnology for delivering drugs across biological barriers: intestines, skin and lungs"

P. Maincent (Nancy, FR)“Encapsulation of nanoparticles in microparticles: in vitro and in vivo approach.”

M.G. Fuentes (Compostela,

ES)"Nanomedicine: a target of opportunity in cancer therapy and research

Wednesday, September 17, 2008

Conference Center, Univ. of Patras

Morning (9.00 -12.30)

T. Christopoulos (Patras, Greece)

"Nanotechnology applications in bioanalytical methods:Nanoparticle-based biosensors"

Theme II (continued)

P. Constantinides (Gurny, USA) “Scientific and technological advances in nanoparticles for drug formulation and delivery “

B. Forbes (London, UK)"Nanoparticles for inhaled drug delivery"

B. Forbes (London, UK) “Influencing drug absorption and retention in the lung"

Theme III. Gene Delivery:

W. Hennink (Utrecht, NL) “Polymer based gene delivery systems”

Afternoon (14.30 – 18.30)

M. Gumbleton (Cardiff, UK)"Phage display applications in drug delivery and targetting to Lung andBlood Brain Barrier"

Theme IV Brain Targeting

P. Kallinteri (Kent, UK)“Novel PGA nanoparticles for brain tumour therapy”