



**Profs. D. Synetos & D. Drainas**  
Biochemistry\*, School of Medicine  
University of Patras

&

**Prof. C.O. Gualerzi**  
Biosciences and Biotechnology  
University of Camerino

are proud to announce the

## Twinning

of the research and teaching activities of their institutions  
and invite you to attend the **joint workshop\*\***

# Biotechnology, Drug Discovery & Novel Therapeutic Approaches

**Camerino October 28-30, 2010**

Biosciences and Biotechnology - Sala Conferenze

### Scientific Program

#### Thursday, 28 October 2010

- 17:20 Getting acquainted  
17:30 **Welcome** by Fulvio Esposito, Rector of University of Camerino  
17:40 Antonella Ragnini-Wilson (Dept. of Translational Pharmacology, Consorzio Mario Negri-Sud) **The potential of high-content high-throughput microscopy in drug discovery**  
18:20 Janine Maddock (Dept. of Mol., Cell., & Develop. Biol., Univ. Michigan, Ann Arbor, MI, USA)  
**Novel Escherichia coli translational factors: potential antibiotic targets**

#### Friday, 29 October 2010

- (Sessions chairs: D. Synetos, L. Marchetti, D. Drainas, M. Angeletti)  
9:00 Anna Maria Puglia (Dept. of Cell and Developmental Biology, University of Palermo)  
**Exploiting actinomycetes 'omics' for the optimization of antibiotic production**  
9:40 Dionissios Papaioannou (Faculty of Medicine, University of Patras)  
**Syntheses of pharmaceutically interesting acidic retinoids, mimetics and conjugates thereof**  
10:10 Cristina Marchini (University of Camerino)  
**DNA vaccination for cancer therapy**  
10:40 Coffee Break

- 11:10 Denis Drainas (University of Patras)  
**Modulation of RNase P activity by small molecule effectors: A promising molecular target for the development of new drugs**  
11:40 Irene Ricci (University of Camerino)  
**Microbial symbionts of malaria vectors: a possible tool for malaria control**  
12:10 Dennis Synetos (University of Patras)  
**Changes in translational fidelity and catalytic activity of eukaryotic ribosomes caused by mutations can reveal the function of several antibiotics in protein synthesis**

Lunch break

- 15:00 Valentina Cekarini (University of Camerino)  
**Polyphenols: From reducing properties to biological functions**  
15:30 Konstantinos Avgoustakis (University of Patras)  
**Nanocarriers for the controlled delivery of bioactive agents**  
16:00 Coffee break  
16:30 Letizia Brandi (University of Camerino)  
**Innovative HTS strategies for the identification of anti-microbials and anti-cancer drugs**  
17:10 Claudio O. Gualerzi (University of Camerino)  
**Mechanism of action of novel antibiotics targeting the bacterial ribosome**  
18-19 **Roundtable discussion** on twinning strategies for research and teaching

### Under the patronage of the 'School of Advanced Studies' Graduate students brunch and poster presentation

#### Saturday, 30 October 2010

- 9:00-12:00 - Session chair: C. Miceli  
C. Nhan Tran, M. Giangrossi, A. Brandi & M. Falconi (University of Camerino)  
**A multifactor regulatory circuit involving H-NS, VirF and an antisense RNA modulates transcription of the virulence gene icsA of Shigella flexneri**  
O. N. Kostopoulou, T. Choli-Papadopoulou, G. P. Dinos & D. L. Kalpaxis (University of Patras & Aristotle University of Thessaloniki)  
**Effects of L4 and L22 protein mutations on the interaction of telithromycin with E. coli ribosomes**  
M. C. Di Luca, D. Petrelli, S. Ripa & M. Prenna, (University of Camerino)  
**Macrolide efflux in GAS: who cares and who carries**  
M. Apostolidi, C. Toumpeki, V. Stamatopoulou, D. Drainas & C. Stathopoulos (University of Patras)  
**Studies on the functional participation of Dictyostelium discoideum La protein in the maturation of nascent tRNAs**  
F. Di Pietro, A.M. Giuliadori, C.L. Pon (University of Camerino)  
**A riboswitch controlling the cold-shock translational bias**  
C. Toumpeki, V. Stamatopoulou, M. Bikou, C. Kontopoulou, F. Kakatsidis & D. Drainas (University of Patras)  
**Modulation of RNase P activity by small molecule effectors**  
A. Capone, P. Rossi, C. De Freece, I. Ricci & G. Favia (University of Camerino)  
**Microbial competition in mosquito vectors**  
D. Hadjipavlou-Litina a\*, George E. Magoulas b, S. E. Bariamis b, D. Drainas c, K. Avgoustakis d and D. Papaioannou b  
**Does conjugation of antioxidants improve their antioxidative/anti-inflammatory potential?**  
R. Devaraj, G. Yang, S. Pucciarelli, S. Barchetta, T. Yu & C. Miceli (University of Camerino)  
**The cold-adapted ciliate Euplotes focardii as model organism to study gene loss and acquisition and enzymes of potential biotechnological applications**  
D. Sparvoli, S. Pucciarelli, S. Barchetta, P. Ballarini, M. Montani, T. Yu & C. Miceli (University of Camerino)  
**New roles for beta-tubulin isotypes**  
F. Gabrielli & A. Amici (University of Camerino)  
**Mapping of B-cell epitope on HER2/neu oncogenic protein and new epitope-based DNA vaccine design**  
F.M.Carpi, S. Vincenzetti, D. Micozzi (University of Camerino)  
**Cytidine Deaminase: a new marker in B-chronic lymphocytic leukemia**

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\* scientific network on 'Development and biological evaluation of novel anti-inflammatory and anti-microbial pharmaceutical agents'

\*\* Students of the courses offered by the School of Bio-sciences and Biotechnology may receive one credit (CFU) for the attendance to entire workshop