

# International Symposium on Chemistry, Biology and Medicine

## Program

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### Sunday May 28, 2006

14:00      Registration

18:00      Welcome Reception

19:00      Live Performance of Cypriot and Greek Songs by the Choir of Karavas Organization

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## Program

### Monday May 29, 2006

- 08:00**      **Welcome and Opening remarks**
- 08:40**      **Natural Product Synthesis: A Stimulus for Discovery**  
Prof. Steven V. LEY  
(UNIVERSITY OF CAMBRIDGE, Cambridge, United Kingdom)
- 09:30**      **Coffee break and Poster session**
- 10:00**      **Multidimensional Lead Optimization: The Discovery of Innovative Small Molecule Therapeutics**  
Prof Magid ABOU-GHARBIA  
(TEMPLE UNIVERSITY, Philadelphia, United States)
- 10:50**      **Reactivity and Applications of a New Diene for Organic Synthesis**  
Prof. Erik SORENSEN  
(PRINCETON UNIVERSITY, Princeton, United States)
- 11:30**      **The Discovery of Non Transition-State Isostere BACE Inhibitors**  
Dr Philippe NANTERMET  
(MERCK AND CO., WEST POINT, United States)
- 12:00**      **Lunch and Poster session**
- 14:00**      **Mini Business Symposium and Panel Discussion**
- 14:01**      **Chemistry in Drug Discovery: New Trends and New Challenges. Coordinator: Dr Ron Magolda, Wyeth Research, Princeton, USA. Participants: to be announced**
- 14:02**      **New Trends in Chemistry Outsourcing. Coordinator: Dr Eugene Vaisberg, ChemBridge, San Diego, USA. Participants: to be announced**

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**Tuesday May 30, 2006**

- 08:00 Synthetic Investigations of Antimitotic Agents**  
Prof. Madeleine JOULLIÉ  
(UNIVERSITY OF PENNSYLVANIA, Philadelphia, United States)
- 08:50 From Chemistry to Medicine: New Chemical Reactions and New Synthetic Molecules Leading to New Therapies for Inflammation and Cancer**  
Prof. Nicos A. PETASIS  
(UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, United States)
- 09:30 Coffee break and Poster session**
- 10:00 Structure-based Design of Nuclear Receptor Hormone Ligands: Potent Quinoline-based Liver X Receptor (LXR) Agonists**  
Dr Ronald MAGOLDA  
(WYETH RESEARCH, Monmouth Junction,, United States)
- 10:30 TAFIa Inhibitors for Treatment of Thrombosis**  
Dr Mark BUNNAGE  
(PFIZER, Boston, United States)
- 11:00 From the Insoluble Dye Indirubin Towards Highly Active, Soluble CDK2-Inhibitors**  
Dr Rolf JAUTELAT  
(SCHERING, Berlin, Germany)
- 11:30 Discovery of Pyrido-Pyrimidone Based Selective and Orally Efficacious p38 MAP Kinase Inhibitors**  
Dr Swaminathan (Ravi) NATARAJAN  
(MERCK, Rahway, United States)
- 12:00 Lunch and Poster session**
- 14:00 A Multi-dimensional Approach to Molecular Recognition in Chemistry and Biology: Towards New Antimalarial Therapies**  
Prof. François DIEDERICH  
(ETH ZURICH, Zürich, Switzerland)
- 14:50 Towards Measuring and Modulating Protein Function with Small Molecules**  
Prof. Nicolas WINSSINGER  
(UNIVERSITY OF STRASBOURG, Strasbourg, France)
- 15:30 Coffee break**
- 15:50 Discovery and Optimization of Novel Drug Like Molecules via the ConTour™ Design Technology**  
Dr David CLAREMON  
(VITAE PHARMACEUTICAL, Fort Washington, United States)
- 16:20 Development of Transition Metal Catalyzed Reaction for Organic Synthesis**  
Prof. F. Dean TOSTE  
(UNIVERSITY OF CALIFORNIA, Berkeley, United States)

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### Wednesday May 31, 2006

- 08:00      Structure-based Organic Synthesis of Drug Prototypes**  
Prof. Stephen HANESSIAN  
(UNIVERSITY OF MONTREAL, MONTREAL, QC, Canada)
- 08:50      Chemistry and Biology of Heterocycles: From Combinatorial Chemistry to Natural Product Synthesis**  
Prof. Stefan BRAESE  
(UNIVERSITY OF KARLSRUHE, KARLSRUHE, Germany)
- 09:30      Coffee break and Poster session**
- 10:00      Stereoselective Synthesis of Biologically Active Alkaloids**  
Prof. David TANNER  
(THE TECHNICAL UNIVERSITY OF DENMARK, LYNGBY, Denmark)
- 10:40      Geometric Control of Alkenes in Organic Synthesis**  
Prof. Jun'ichi UENISHI  
(KYOTO PHARMACEUTICAL UNIVERSITY, KYOTO, Japan)
- 11:20      Natural Products; Targets of Opportunities**  
Prof. Emmanuel THEODORAKIS  
(UNIVERSITY OF CALIFORNIA SAN DIEGO, La Jolla, United States)
- 12:00      Lunch and Poster session**
- 14:00      Excursion Details to be announced**
- 19:00      Nicolaou Group Re-union Dinner**

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### Thursday June 1, 2006

- 08:00 Melatonin, a Hormone in the Dark**  
Prof. Peter J. GARRATT  
(UNIVERSITY COLLEGE LONDON, London, United Kingdom)
- 08:50 Synthesis Adventures with Bases and Bridges**  
Prof. Nigel SIMPKINS  
(UNIVERSITY OF NOTTINGHAM, NOTTINGHAM, United Kingdom)
- 09:30 Coffee break and dPoster session**
- 10:00 Biocatalysis: Key Element in the Synthesis of Bioactive Heterocycles and Natural Products**  
Prof. Floris RUTJES  
(Radboud University Nijmegen, Nijmegen, The Netherlands)
- 10:40 Study towards the Total Synthesis of Micrandilactone A**  
Prof. Zhen YANG  
(PEKING UNIVERSITY, BOSTON, United States)
- 11:20 Inhibition of the Formation of the Transcription Activation Complex by the Thyroid Hormone Receptor**  
Dr Rodney KIP GUY  
(ST. JUDE CHILDREN'S RESEARCH HOSPITAL, Memphis, United States)
- 12:00 Lunch and Poster session**
- 14:00 Asymmetric Two-Center Catalysis: Construction of Tetrasubstituted Carbons**  
Prof. Masakatsu SHIBASAKI  
(UNIVERSITY OF TOKYO, Tokyo, Japan)
- 14:50 The Catalytic Cycle of Discovery in Total Synthesis**  
Prof. Phil BARAN  
(THE SCRIPPS RESEARCH INSTITUTE, La Jolla, United States)
- 15:30 Coffee break**
- 16:40 The Art of Total Synthesis at the Limits of Chemical Complexity**  
Prof. K.C. NICOLAOU  
(THE SCRIPPS RESEARCH INSTITUTE, Houston, United States)
- 17:00 Closing**
- 19:00 Banquet**