

## Program

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**Tuesday May 4, 2004**

**Registration**

The registration desk will remain open during the whole symposium.

**Welcome Reception**

From 17:30 - 18:30, in the hall of the Mezhdunarodnaya Hotel.

## Program

**Wednesday May 5, 2004**

**Opening**

**Perspectives in Total Synthesis**

Prof. K.C. NICOLAOU  
(THE SCRIPPS RESEARCH INSTITUTE, Houston, United States)

**Coffee break**

**Biomimetic Oxidations of Organic Substrates**

Prof. Jan-Erling BÄCKVALL  
(STOCKHOLM UNIVERSITY, Stockholm, Sweden)

**Studies on Bioactive Macrocycles: New Concepts and Spin-offs**

Prof. Alois FÜRSTNER  
(MAX PLANCK INSTITUT FÜR KOHLENFORSCHUNG, Muelheim an der Ruhr, Germany)

**Lunch**

**"IN SILICO" Design and Focused Synthesis of New Neuroactive Compounds in the Series of Glutamate Receptors Ligands**

Prof. Nikolay S. ZEFIROV  
(INSTITUTE OF PHYSIOLOGICALLY ACTIVE COMPOUNDS, Moscow, Russia)

**Biomimetic Synthesis**

Prof. Sir Jack BALDWIN  
(UNIVERSITY OF OXFORD, OXFORD, United Kingdom)

**Coffee break**

**Catalytic Asymmetric Synthesis of Pharmaceuticals**

Prof. Masakatsu SHIBASAKI  
(UNIVERSITY OF TOKYO, Tokyo, Japan)

**Drug Discovery - Back to the Future**

Prof. K. Barry SHARPLESS  
(THE SCRIPPS RESEARCH INSTITUTE, LA JOLLA, CA, United States)

**BANQUET**

**Buffet dinner at the Presidency of the Academy of Science.**

**Thursday May 6, 2004**

**Challenges in Drug Discovery: Design and Synthesis of Novel Drug Candidates**

Prof Magid ABOU-GHARBIA  
(TEMPLE UNIVERSITY, Philadelphia, United States)

**Application of Enabling Technologies to Expedite Drug Discovery**

Dr Mark DUGGAN  
(LINK MEDICINE CORPORATION, Cambridge, United States)

**Designing Selective Kinase Inhibitors: Tools, Concepts, Challenges and Opportunities**

Dr Serge HALAZY  
(SERONO INTERNATIONAL S.A., GENEVE, Switzerland)

**Electrophilic Fluorodesilylation of Organosilanes a New Synthetic Route to Various Fluorinated Compounds**

Prof. Véronique GOUVERNEUR  
(UNIVERSITY OF OXFORD, Oxford, United Kingdom)

**Coffee break**

**Design and Synthesis of Enzyme Inhibitors - From Concepts to Practice**

Prof. Stephen HANESSIAN  
(UNIVERSITY OF MONTREAL, MONTREAL, QC, Canada)

**Indoline and Indolenine Intermediates in the Syntheses of Complex Indole Derivatives**

Prof. Maria PREOBRAZHenskAYA  
(GAUSE INSTITUTE OF NEW ANTIBIOTICS, MOSCOW, Russia)

**Molecular Diversity from Acylnitroso Cycloadditions: Preparation of Novel Scaffolds and Focused Targets**

Prof. Marvin MILLER  
(UNIVERSITY OF NOTRE DAME, NOTRE DAME, IN, United States)

**Viagra<sup>TM</sup> & Beyond: Selective PDE5 Inhibitors for Treatment of MED**

Dr Mark BUNNAGE  
(PFIZER, Boston, United States)

**Application of Chemogenomic Principles to Library and Template Design**

Dr Thomas R. WEBB  
(CHEMBRIDGE CORPORATION, SAN DIEGO, United States)

**Lunch**

**Structure-Based Design of Nonpeptidic Enzyme Inhibitors: Molecular Recognition Studies with Biological Receptors**

Prof. François DIEDERICH  
(ETH ZÜRICH, Zürich, Switzerland)

**SAR By XRay: A New Approach Combining Screening and Rational Drug Design. Application to the Discovery of Nanomolar Src SH2 Binders**

Dr Dominique LESUISSE  
(SANOFI AVENTIS, Chilly-Mazarin, France)

## Program

### **Molecular Design, Chemical Synthesis and Biological Evaluation of Quinoxaline-Carbohydrate Hybrids as Novel and Selective Photo-Induced Dna Cleaving and Cytotoxic Agents**

Prof. Kazunobu TOSHIMA  
(KEIO UNIVERSITY, YOKOHAMA, Japan)

### **Coffee break**

### **From Synthetic Polyelectrolites to Vaccinating Macromolecules**

Prof. Viktor A. KABANOV  
(RUSSIAN ACADEMY OF SCIENCES, Russia)

### **Arene-Arene Interactions Between the Substrate and the Organocatalyst as the Driving Force In the Asymmetric Allylation of Aldehydes with Allyltrichlorosilanes.**

Dr Andrei MALKOV  
(UNIVERSITY OF GLASGOW, Glasgow, United Kingdom)

### **Asymmetric Approach to Proline-Derived Spiro-?-Lactams - Staudinger Reaction of N-Protected-4-Methanesulfonyloxy-L-Proline with N-Aryl Imines**

Dr Mohan THIRUVAZHI  
(CHEMBRIDGE RESEARCH LABORATORIES, SAN DIEGO, United States)

### **Hit and Lead Generation - Beyond High Throughput Screening**

Dr Alexander ALANINE  
(INDEPENDANT RESEARCHER, Cambridge, United Kingdom)

### ***Optional:***

***Swan Lake Ballet at the Bolshoi Theater***

### **Moscow by night guided tour (First departure)**

### **Moscow by night guided tour (Second departure)**

## Program

**Friday May 7, 2004**

**Synthesis and Pharmacological Characterization of Novel Epothilone Derivatives**

Dr Rainer METTERNICH  
(CAPROTEC BIOANALYTICS, Basel, Switzerland)

**The Discovery of BIBN4096, a Novel CGRP Antagonist for the Treatment of Migraine**

Prof. Dr. Gerd SCHNORRENBURG  
(BOEHRINGER INGELHEIM PHARMA KG, Biberach an der Riss, Germany)

**The Synthesis of Biarylthioether derivatives as GlyT1 Inhibitors**

Dr Garrick SMITH  
(H. LUNDBECK A/S, VALBY, Denmark)

**Catalytic Synthesis of Azoles, or Teaching an Old Dog New Tricks**

Prof. Valery FOKIN  
(THE SCRIPPS RESEARCH INSTITUTE, LA JOLLA, United States)

**Coffee break**

**New Multicomponent Reactions**

Prof. Nicos A. PETASIS  
(UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES, United States)

**Computer-Aided Discovery of New Pharmacological Agents With Multiple Mechanisms Of Action**

Prof. Vladimir POROIKOV  
(INSTITUTE OF BIOMEDICAL CHEMISTRY OF RUS. ACAD. MED. SCI., Moscow, Russia)

**Dysynosins B – D, Inhibitors Of Factor Viia And Thrombin From The Australian Sponge Lamellodysidea Chlorea**

Dr Malcolm BUCHANAN  
(GRIFFITH UNIVERSITY, BRISBANE, QUEENSLAND, Australia)

**LMW Agonists for the Human LH Receptor: Identification, Optimisation and Mechanism of Action**

Dr Marco TIMMERS  
(ORGANON, OSS, The Netherlands)

**Solution Phase Combinatorial Chemistry: Enabling Technologies for Heterocyclic Synthesis**

Dr Larry TRUESDALE  
(PFIZER, LA JOLLA, United States)

**Lunch**

**Research Collaborations and Technology Integration**

Dr Michael T. CLARK  
(PFIZER, NEW LONDON, United States)

**Compound Collection Enhancement Activities in AstraZeneca**

Dr Mike T. COX  
(, HOLMES CHAPEL, Cheshire, United Kingdom)

**Developing and Managing Discovery Chemistry Collaborations**

## Program

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Mr Steven HUTCHINS  
(MERCK & CO., RAHWAY, United States)

### Coffee break

### The Impact of Out-sourcing on R&D Productivity

Dr Jay MCGILL  
(LILLY, INDIANAPOLIS IN, United States)

### Chemical Outsourcing: Beyond Routine Work

Dr. Patrice TALAGA  
(UCB, Braine-L'Alleud, Belgium)

### 10 Years of Discovery Chemistry Outsourcing in Russia: From Compound Acquisition to Strategic Research Collaborations

Dr Gene VAISBERG  
(CHEMBRIDGE CORPORATION, San Diego, United States)

### OPERA PERFORMANCE at NEW OPERA THEATER

## Program

**Saturday May 8, 2004**

**Progress in the Total Synthesis of Polycyclic Natural Products**

Prof. Johann MULZER  
(UNIVERSITY OF VIENNA, Vienna, Austria)

**The Construction of the Chiral Quaternary Carbon in Drug Discovery Directed towards the Novel Neuroprotective Agent E2050**

Dr Teiji KIMURA  
(EISAI CO. LTD, IBARAKI, Japan)

**Fluorinated Azaheterocycles in Medicinal Chemistry**

Prof. Valeri Nikolaevich CHARUSHIN  
(URAL TECHNICAL UNIVERSITY, EKATERINBURG, Russia)

**Coffee break**

**Polycycles from Polyenes, Seeking Opportunities for Organic Synthesis**

Prof. Erik SORENSEN  
(PRINCETON UNIVERSITY, Princeton, United States)

**Tris-(2-Hydroxyethyl) Ammonium Salts of Aryl Heteroacetic Acids – New Class of Drugs And Biologically Active Compounds**

Prof. Anna MIRSKOVA  
(FAVORSKII INSTITUTE OF CHEMISTRY, IRKUTSK, Russia)

**Practical Considerations in Predicting ADMET Properties from Chemical Structure**

Dr Scott BOYER  
(ASTRAZENECA, Barcelona, Spain)

**Lunch**

**KREMLIN GUIDED TOUR**

*Optional:  
Evgeny Onegin at the Bolchoï Theater*

# ASCMC'04 Moscow

## Program

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**Sunday May 9, 2004**

*Optional:*  
**TOUR 1 Tretyakov Gallery + Cathedral of Christ the Saviour**

*Optional:*  
**TOUR 2 Pushkin Museum + Cathedral of Christ the Saviour**