

Pharmacology **International**

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The half-yearly newsletter from the International Union of Basic and Clinical Pharmacology

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Dr. **Terry P. Kenakin** of GlaxoSmithKline Research and Development in Research Triangle Park, NC USA will be giving the IUPHAR Lecture in Analytical Pharmacology during Beijing2006.

Terry P. Kenakin, IUPHAR Lecture in Analytical Pharmacology



From Systems to Target to Systems: Can We Keep Caprice Out of Pharmacological Numbers?

"From its inception, receptor theory has been used in attempts to quantify drug activity in a system independent manner in attempts to predict therapeutic activity from data obtained in test systems. This lecture will highlight key findings from various authors that have progressed these ideas to the present day state of the art. Broadly speaking, agonism can be described by the Operational model while antagonism can be discussed either through orthosteric or allosteric models. This presentation will focus on the 'prescience' of Operational theory in predicting agonist activity in systems, the impact of kinetics on observed orthosteric antagonism in different experimental assay formats, and the ability of allosteric theory to put numbers to ligand interactions with shapeshifting proteins. This latter idea will be discussed in relation to newly discovered CCR5 HIV entry inhibitors and the concept

of GPCR target-salvage. The influence of receptor/G-protein pleiotropism, ligand-selective receptor active states and collateral efficacy also will be considered. Finally, a look to the future of receptor theory in drug discovery will be made."



Beijing2006 Official Satellite Meetings

Serotonin Club Meeting
Sapporo, JAPAN, 28-30 June

International Conference on Pharmacogenetics
Changsha, CHINA, 28-30 June

Vascular Neuroeffector Interactions
Suzhou, CHINA, 28 June-July 1

Pediatric Pharmacology Satellite Symposium
Shanghai, CHINA, 29-30 June

Pharmacological Teaching: Facing New Challenges
Beijing, CHINA, 1-2 July

Pharmacology of Adrenoceptors
Beijing, CHINA, 7-9 July

Bioregulation in the Gastrointestinal Tract
Osaka, JAPAN, 7-9 July

From Molecular to Drug Discovery Xi'an, CHINA, 8-10

Pharmacology International

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Administrative Office.

Contributions:

We welcome contributions from member societies.
Please submit articles and photos to Dr. Sue Piper
Duckles.

Membership:

The members of IUPHAR are the national societies
from each country, regional societies and special
research interest organizations. If you are an
individual, please see the Members section on the
IUPHAR website for contact information to an
organization that you can join, or contact us at the
Administrative Office.

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Questions about the 15th IUPHAR World Congress of Pharmacology in Beijing

Contact the Beijing congress secretariat
directly at:

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The IUPHAR Administrative Office can
only refer your questions to the Beijing
organizers.

We look forward to seeing you in Beijing.



PEOPLE

IUPHAR President Prof. **Paul M. Vanhoutte** has received these honors:

Doctor Honoris Causa, Royal Melbourne Institute of Technology University, December 2005

Pharmacology (ACCP) has published the first issue of the new Student E-Newsletter located at www.accp1.org/studentcenter. ACCP comments "This newsletter reflects the passion of a dedicated student outreach committee comprised of members from various pharmacy graduate programs. The newsletter has

MILESTONES

Carl J. Wiggers Award, American Society of Physiology, April 2006

Honorary Fellow of the British Pharmacological Society, May 2006

Royal Belgian Academy of Medicine, Corresponding Member, May 2006

Doctor Honoris Causa, Université Louis Pasteur, Strasbourg, France, June 2006

AWARDS

National Institute of Drug Abuse (USA) Travel Awards for international early career investigators - Co-sponsored by IUPHAR

Dr. Daina Economidou

Dept of Experimental Medicine and Public Health, University of Camerino

Masami Suzuki, Ph.D.

Hoshi University School of Pharmacy and Pharmaceutical Sciences

Alexis Bailey, Ph.D.

School of Biomedical and Molecular Sciences University of Surrey

MEMBERS

The **American Society for Clinical Pharmacology and Therapeutics** (ASCPT) has named a new Editor and a new Publisher for its journal *Clinical Pharmacology and Therapeutics* (CPT). Noted clinical pharmacologist Dr. **Scott Waldman** of Thomas Jefferson University in Philadelphia will be the journal's next editor, and Nature Publishing Group will become the new publisher. Both appointments will take effect on January 1, 2007.

The **American College of Clinical**

received rave reviews from nationally and internationally renowned academic institutions." ■

Support for Vitamin D Research

Center for D-Receptor Activation Research (CeDAR) will support approximately 5 to 10 grants, ranging from \$100,000 to 200,000 each. The maximum allowable overhead charged to the grant will be 15%, and the total amount (direct and indirect) cannot exceed \$200,000.

Grants will be for one year from the time of fund transfer, with the expectation that results of the funded study will be published in a leading journal within two years of fund transfer. Grant deadlines will be December 1st and May 1st and all applicants will be notified of the status of their application by January 31st and June 30th, respectively.

Established investigators previously working in other areas and now wishing to pursue clinical/translational research in the area of vitamin D are strongly encouraged to apply. For more information see: www.mghcedar.org.

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June 2006

The Italian Society of Pharmacology (SIF) was founded in 1939. In 1996 it was recognised as a non-profit scientific association by the Ministry of the University,

Rodolfo Paoletti, Paolo Preziosi and Giancarlo Pepeu have served in various capacities in IUPHAR committees and SIF was directly involved in the organization of

Società Italiana di Farmacologia

Italian Society of Pharmacology

Scientific and Technological Research. The present membership consists of 1180 ordinary members, 12 honorary members and 20 supporting members. This membership makes the Italian Society one of the largest Societies of Pharmacology in Europe. The Society has a permanent office in Milan and is managed by a President, a President-elect and a Steering Committee of 7 members. The Society includes a Section of Clinical Pharmacology which is managed by a Co-ordinator and a Steering Committee reporting to the President.

The publications of the Society are Pharmacological Research, an international journal published by Elsevier, a quarterly newsletter called "Quaderni della SIF", in Italian, reporting the activity of the Society and its members, political and academic news which may be of interest to them, official position papers and documents prepared by the Society on issues concerning pharmacological problems of interest for the general public.

SIF is an active and lively society which has gradually changed from a typical learned society devoted mostly to the exchange of scientific information among its members to a kind of professional society which, without severing the scientific roots which represent its "raison d'être", aims to promote pharmacology in Italy. We do this by fostering pharmacological education within the University, the National Health System and the general public, by supporting young pharmacologists with travel fellowships and grants and helping them to find jobs, and by collaborating with public authorities and private organisations in disseminating expert opinions on drug efficacy and side-effects.

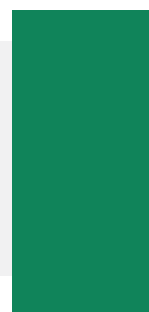
SIF has regularly paid fees to IUPHAR and members of the Society, like the professors

the successful VII World Conference in Clinical Pharmacology and Therapeutics in Florence in 2000. The Italian participation in the IUPHAR meeting has always been consistent.

Wishing a large success to the IUPHAR meeting in Beijing.

With my best personal regards,

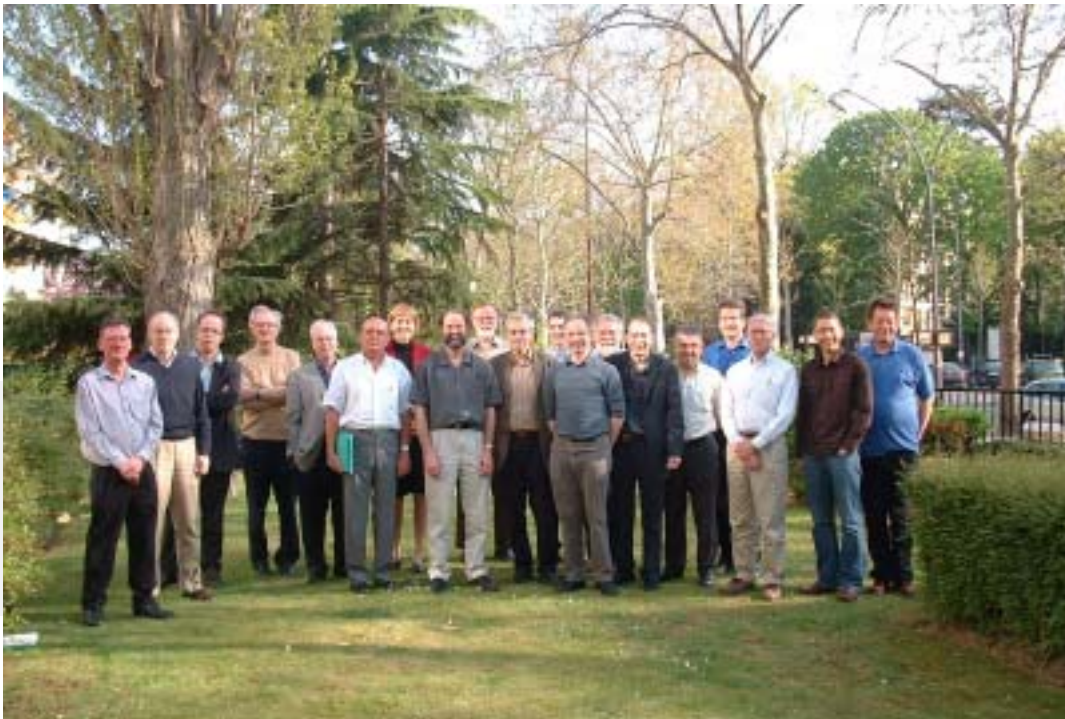
Giovanni Biggio
University of Cagliari
President, Italian Society of Pharmacology



Editor's Note: The Italian Society of Pharmacology (SIF) can be contacted at:

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IUPHAR NOMENCLATURE COMMITTEE (NC-IUPHAR)

RECENT ACHIEVEMENTS

GPCR Curated List. An authoritative curated list of the GPCRs encoded by the human genome has been published in print and online.

GPCR Database. Prof. **Anthony Harmar** (University of Edinburgh) has chaired the database committee. A database including pharmacological, chemical, genetic, functional and anatomical information on GPCRs has been created (<http://www.iuphar-db.org>).

Ligand-gated ion channels. Spearheaded by Prof. **William Catterall** (University of Washington), updated reviews of the nomenclature and functions of all the ligand-gated ion channels encoded by the genome have been published in *Pharmacological Reviews*.

Nuclear Hormone Receptors Compendium. Under the leadership of Dr. **Vincent Laudet** (ENS, Lyon, France), updated reviews of the nomenclature and functions of nuclear hormone receptors have been prepared for database posting and publication. These have been distributed on

a CD to all registrants at the Beijing World Congress, July 2006.

Ligand-gated ion channels. The classification of these systems is underway with the leadership of Dr. **Richard Olsen** (UCLA) and Prof. **John Peters** (University of Dundee).

Published articles. With the continued support of *Pharmacological Reviews*, a total of 35 scientific articles were published from 2002 to 2006.

Free availability worldwide. All databases are freely available on the internet in a format suitable for browsing with unsophisticated web browsers without requiring a fast connection. The information will therefore be accessible to students, academics, journalists and pharmaceutical companies in developing countries as well as to the wider international community and to those working from home. The data is continuously evolving as more receptor systems are completed.

Paediatric Clinical Pharmacology

WORK-PLAN 2004-2008

Important issues

Paediatric clinical pharmacology is in a very dynamic phase of development. The new possibilities of molecular biology and the political initiatives to provide better medicines for children have already had an impact on paediatric clinical research, and will

development and rational drug prescribing. This should lead to safe and effective medicines meeting the needs of children, properly labelled and rationally used.

- Redistribution of paediatric clinical pharmacological research from developed to developing countries leads to dissociation of risks and benefits into different paediatric populations if the medicinal products studied will not be available to the population where the trials were performed.

Leading the World in Paediatric Clinical Pharmacology

undoubtedly influence it even more in the future. While these developments seem to provide an unprecedented window of opportunity for children, paediatrics and paediatric pharmacology, the effects have not been entirely positive. Due to economic factors, the increasing complexity of regulations and some protectionistic features of the initiatives, a redistribution of paediatric clinical pharmacological research seems to be going on. The redistribution is both geographic, with boost for the countries within the areas of the initiatives or where clinical trials in children can be performed most economically, and within the field of paediatric pharmacological research in general, as a consequence of increase in clinical trials for regulatory purposes. Specific challenges facing the international community of paediatric clinical pharmacologists include:

- The benefits from expanding knowledge in pharmacology and therapeutics brought about by modern methods of molecular biology have to be made available to children through paediatric clinical pharmacological research.
- Best efforts of academic, industrial and regulatory paediatric clinical pharmacologists should be combined to develop optimal methods and requirements for providing children with the results of modern drug

- The number of trained paediatric clinical pharmacologists is small and their distribution is increasingly distinct geographically from where paediatric trials are going on in the world.

- Emergence of new paediatric clinical pharmacology centres and networks as a consequence of the increased demand for paediatric clinical trials is a positive development but also a challenge. A sustainable global framework for communication, co-operation and exchange is needed.

A global discussion of the consequences of these developments and how best to address existing as well as emerging challenges is lacking, and does not seem to be in the interests of the political, regulatory or industrial stakeholders. IUPHAR, as an acknowledged global scientific organisation, can take an active role to initiate discussion on how to provide optimal benefit of these developments for all the children in the world. The Paediatric Sub-Committee will work on the issues by:

- Advocacy to increasingly incorporate paediatric clinical pharmacological knowledge in policy development, regulatory work, and clinical paediatrics all over the world. Promotion of knowledge about paediatric clinical pharmacology

and the problem of children's medicines can be achieved by inclusion of relevant topics on the agenda of international meetings organised by IUPHAR and others.

- By co-operating with other stakeholder to find solutions for development of a sustainable global framework to train more paediatric clinical pharmacologists to fulfil the unmet needs of the developing world and the increasing demand in the developed world. Creation of international networks in paediatric clinical pharmacology to foster co-operation in research.

- Influencing the new regional (US, EU etc.) initiatives for better medicines for children to promote the benefit of children globally instead of increasing inequality for instance through clinical trials performed in developing countries for the benefit of market authorisations in the developed world. The task will be approached in collaboration with other interested parties.

What is happening:

1. The Paediatric Sub-Committee is organising a symposium titled "Better Medicines for Children" on 3 July 2006 within the program of the IUPHAR2006 Congress in Beijing, and trying to encourage paediatric clinical pharmacologists to put paediatric clinical pharmacological topics on the agenda of other international meetings.

2. The Paediatric Sub-Committee is participating in the North-American initiative known under the name "Global Consortium in Pediatric Pharmacology" with an aim to develop international networks for collaboration and training in paediatric pharmacology.

3. The Paediatric Sub-Committee is supporting the proposal of the Nordic Countries to get the global issue of paediatric medicines on the agenda of the WHO.

Prof. Kalle Hoppu
Chairman of the Sub-Committee of
Paediatric Clinical Pharmacology

Harmonization of Animal Care and Use Guidance

Gilles Demers, Gilly Griffin, Guy De Vroey, Joseph R. Haywood, Joanne Zurlo, Marie Bédard

Science 5 May 2006:

Vol. 312. no. 5774, pp. 700 - 701

DOI: 10.1126/science.1124036

This article supports continuing and increasing current programs to harmonize laws and regulations regarding the ethical treatment of animals used in scientific research.

A number of important references are cited, and the article makes frequent reference to the work of the International Council for Laboratory Animal Science (ICLAS).

The authors show that harmonization will assist in several areas: from raising levels of ethical treatment, to simplifying the administration of international collaborative research and enhancing the comparability of research data from different locales.

Many of the demands for improved animal care benefit not only the animals, but the science as well, actually saving money and improving the integrity of research data.

You can read the full article at <http://www.sciencemag.org/cgi/content/full/312/5774/700/DC1>.

1 - L1 Muscle-Derived Cytokines: Pharmacological Implications
Pedersen Bente Klarlund
Centre of Inflammation and Metabolism, The Department of Infectious Diseases and The CMRC, Rigshospitalet and The Faculty of Health Sciences, University of Copenhagen Copenhagen, Denmark

2 - L2 Serotonin 5-HT₂ Receptors: Molecular and Genomic Diversity
Sanders-Bush Elaine
Department of Pharmacology, Vanderbilt University School of Medicine, Nashville, Tennessee, USA

8 - L7 Ca²⁺ Sensitizers: Characteristics, Classification and Potential Clinical Relevance
Endoh Masao
Department of Cardiovascular Pharmacology, Yamagata University School of Medicine, Yamagata, Japan

9 - L8 Modulation of Cytochrome P450 Activity by Reactive Species
du Souich Patrick
Département de Pharmacologie, Faculté de médecine, Université de Montreal, Montréal, Québec, Canada

IUPHAR2006 Plenary Lecture Schedule

3 - L3 Annexin 1, a Mediator of Glucocorticoid Action at the Neuroendocrine-Immune Interface
Buckingham Julia
Division of Neuroscience and Mental Health, Faculty of Medicine, Imperial College London, London, United Kingdom

4 - L4 Towards High Resolution Structures of G-protein Coupled Receptor
Michel Hartmut
Max Planck Institute of Biophysics, Frankfurt am Main, Germany

5 Danish Lecture: The Pharmacology of Hypertension - New Challenges
Mulvany Michael J.
Department of Pharmacology, University of Aarhus, Aarhus C., Denmark

6 - L5 Discovery of Ghrelin: Its Structure and Physiological Significance
Kangawa Kenji
National Cardiovascular Center Research Institute, Osaka, Japan

7 - L6 Pharmacogenomics, Basic and Clinical Research
Weinshilboum Richard M.
Division of Clinical Pharmacology, Mayo Clinic College of Medicine, Rochester, Minnesota, USA

10 - L9 Why Pharmacology Teaching and Research are Inextricably Linked
Jarrott Bevyn
Howard Florey Institute and Department of Pharmacology, University of Melbourne, Victoria, Australia

11 British Pharmacological Society Lecture: Annexin 1, Anti-inflammatory Drugs and the Neuroendocrine-immune Interface
Flower Roderick John
Biochemical Pharmacology, William Harvey Research Institute, London, United Kingdom

12 - L10 Targeting Adenosine Receptors
Fredholm Bertil B.
Department of Physiology and Pharmacology, Karolinska Institutet, Stockholm, Sweden

13 - L11 Regulation of Hypoxia Inducible Factor, Cell Respiration and NO
Moncada Salvador
The Wolfson Institute for Biomedical Research, University College London, London, United Kingdom

14 - L12 Prostanoid Receptors: From Physiology, Molecular Biology to Translational Research
Narumiya Shuh
Department of Pharmacology, Kyoto University Faculty of Medicine, Kyoto, Japan

15 - L13 Endothelial Dysfunction and Vascular Disease
Vanhoutte Paul M.
Department of Pharmacology, Faculty of Medicine, University of Hong Kong, Hong Kong SAR, China

16 - L14 Retinoid Pharmacology: Cell Growth, Differentiation and Cancer
Gudas Lorraine J.
Department of Pharmacology, Weill Medical College of Cornell University, New York, USA



17 - L15 Aquaporin Water Channels: from Atomic Structure to Clinical Medicine
Agre Peter
Duke University, Durham, North Carolina, USA

18 The IUPHAR Lecture in Analytical Pharmacology: From Systems to Target to Systems: Can we Keep Caprice out of Pharmacological Numbers?
Kenakin Terry P.
GlaxoSmithKline Research and Development, Research Triangle Park, North Carolina, USA

19 - L16 Understanding Drug Glucuronidation-New Insights on an Old Enzyme
Miners John O.

Department of Clinical Pharmacology, Flinders University and Flinders Medical Centre, Adelaide, Australia

20 - L17 Analgesics: Stimulators of the NO-cGMP-PKG-ATP K⁺ channel
Ferreira Sergio H.
Department of Pharmacology, Faculty of Medicine Ribeirão Preto, Universidade de São Paulo, São Paulo, Brazil

21 - L18 Adrenoceptor Trafficking in a Living Cell
Han Qide
Institute of Vascular Medicine, Peking University Third Hospital and Key Laboratory of Molecular Cardiovascular Sciences, Ministry of Education, Beijing, China

22 - L19 Myoblast-Mediated Gene Transfer for Therapeutic Angiogenesis
von Degenfeld Georges
Baxter Laboratory in Genetic Pharmacology, Department of Microbiology and Immunology, Stanford University School of Medicine, Stanford, California

23 - L20 Ethnicity, Genetics and Tailored Pharmacotherapy
Zhou Honghao
Pharmacogenetics Research Institute, Institute of Clinical Pharmacology, Central South University, Changsha, Hunan, China

24 - L21 Angiogenesis: From Plants to Blood Vessels
Fan Taiping
Angiogenesis & TCM Laboratory, Department of Pharmacology, University of Cambridge, Cambridge, United Kingdom

25 - L22 Modular Assembly of G Protein Protein-Coupled Receptor Signalosomes
Bouvier Michel
Department of Biochemistry and Groupe de recherche Universitaire sur le Médicament, Université de Montréal, Canada

Monday, 03 July

S1: Cellular Targets For Cancer Therapy
Chaired by Calvo Fabien, France / Ding Jian, China
10:00-12:30

S2: Protein Kinase Signaling in the Heart
Chaired by Han Qide, China / Steinberg Susan F., China
10:00-12:30

S9: Antibody-Based Therapies and Diagnostics
Chaired by Babich Michael, USA / Mingdong Zhou, China
14:45-17:15

S10: Frontiers in G Protein-Coupled Receptor Research
Chaired by Milligan Graeme, UK / Kuwasako Kenji, Japan
14:45-17:15

IUPHAR2006 Symposia and Workshop Schedule

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S3: Transporters and Adverse Effects of Drugs
Chaired by Endou Hitoshi, Japan / Lechat Philippe, France
10:00-12:30

S4: Better Medicines for Children
Chaired by Hoppu Kalle, Finland / Nakamura Hidefumi, Japan
10:00-12:30

S5: Disease-Modifying Therapies in Alzheimer's Disease, from Experimental Targets to Clinical Application
Chaired by Nitsch Roger, Switzerland / Li Lin, China
10:00-12:30

S6: Advances in Analgesic Drug Targets: Beyond Opioids and NSAIDS
Chaired by Eckert William A.III, UK / Li Xiaoyu, China
10:00-12:30

S7: Modern Molecular GI Pharmacology: From Gene Expression to Therapy
Chaired by Szabo Sandor, USA / Takeuchi Koji, Japan
10:00-12:30

S8: New Information on Classical 5-HT Receptors
Chaired by Beck Sheryl G., USA / Wang Huailiang, China
10:00-12:30

S11: IUPHAR/IUTOX Joint Symposium: Torsades de Pointes Arrhythmias: Etiology, Detection, and Benefit vs Risk Associated with Potential Cardiotoxic Drugs
Chaired by Alan Bass S., USA / Kinter Lewis B., USA
14:45-17:15

S12: Antimalarial Drugs-From the Bench to the Field
Chaired by Ginsburg Hagai, Israel / Wilfred D, Israel
14:45-17:15

S13: Inflammatory Sensitization
Chaired by Vergnolle Nathalie, Canada / Wei Wei, China
14:45-17:15

S14: Pharmacological Treatment of Pulmonary Hypertension
Chaired by Simonsen Ulf, Denmark / Gao Yuansheng, China
14:45-17:15

S15: Gene and Cell-Based Therapies for Cardiovascular Disease
Chaired by Katusic Zvonimir S., USA / Chen Alex F., USA
14:45-17:15

W1: E-Pharmacology-Using Technology to Enhance Teaching and Learning in Pharmacology
Chaired by Dewhurst David, UK / Wu Chunfu, China
14:45-17:15



Tuesday, 04 July

S16: Addiction

Chaired by van Ree Jan M., Netherlands /
Han Jisheng, China
10:00-12:30

S17: Pharmacology of Natural Products

Chaired by Man Ricky, Hong Kong / Story
David F., Australia
10:00-12:30

S18: Presynaptic Receptors, the Third Decade and Future Perspectives

Chaired by Langer Salomon Z., Israel / Lee
Tony J F, Tai Wan, China
10:00-12:30

S19: Integrating Tradition and Technology- Effective Teaching of Pharmacology

Chaired by Hughes Ian, UK / Zhang
Xiumei, China
10:00-12:30

S20: Pharmacology of Sarcoplasmic Reticulum in Smooth Muscle

Chaired by Laher Issy, Canada / van
Breemen Cornelis, Canada
10:00-12:30

S23: Na⁺/Ca²⁺ Exchangers: Molecular Pharmacology and Therapeutical Perspectives

Chaired by Annunziato Lucio, Italy /
Iwamoto T, Japan
10:00-12:30

S25: Pharmacology of Gaseous Mediators

Chaired by Nakatsu Kanji, Canada /
Okamura Tomio, Japan
14:45-17:15

S26: Novel Aspects of Cytochrome P450

Chaired by Maurel Patrick, France / Zhou
Honghao, China
14:45-17:15

S27: Role of the Endocannabinoid System

Chaired by Martin Billy R., USA / Zhang
Dechang, China
14:45-17:15

S28: Targeting Signaling Pathways for Therapeutic Interventions

Chaired by Fu Haiyan, USA / Shimokawa
Hiroaki, Japan
14:45-17:15

W2: Standardization and Quality-Control of Natural Products and Traditional Medicines

Chaired by Vanhoutte Paul M.,
Hong Kong / Zhang Yongxiang,
China
14:45-17:15

Wednesday, 05 July

S29: Aquaporin Water Channels and New Drug Discovery

Chaired by TBA
10:00-12:30

S30: Drug Treatment for AIDS and AIDS Associated Diseases

Chaired by Herman A.G.,
Belgium / Zheng Jialin, USA
10:00-12:30

S21: Receptor Closure-New Frontiers for Functional Definition

Chaired by Spedding Michael, France /
Han Qide, China
10:00-12:30

S32: Pharmacology of Traditional Medicines

Chaired by Chow Moses S.S., Hong Kong /
Liu Ganzhong, China
10:00-12:30

S22: Metalloproteinases as Therapeutical Targets for Cancer Therapy

Chaired by Werb Zena, USA / Pei
Duanqing, China
10:00-12:30

S33: Eicosanoid Receptors in Vascular Disease: Targets for Drug Development

Chaired by Brink Charles, France /
Yokomizo Takehiko, Japan
10:00-12:30

Continued on next page

Continued from previous page

S34: The Status of Educational Programs in Drug Development and Regulatory Science
Chaired by Burckart Gilbert J, USA / Sang Guowei, China
10:00-12:30

S35: The Status of Educational Programs in Drug Development and Regulatory Science
Chaired by Liu Gengtao, China / Moncada Salvador, UK
10:00-12:30

W3: Target and Drug Discovery and Validation
Chaired by Cravatt Benjamin F., USA / Du Guanhua, China
10:00-12:30

Thursday, 06 July

S36: Acid-Related Diseases and Mucoprotective Agents: Studies from Cells to Patients-1
Chaired by Zhang Shutian, China / Cho Chi-hin, Hongkong, China
10:00-12:30

S37: Metabolic Modulation in Cardiac Myocytes as a Pharmacological Approach to Treat Cardiac Ischemia and Heart Failure
Chaired by McNeill John H., Canada / Zhan Ji'nan, China
10:00-12:30

S38: Role of Oxidative Stress in the Regulation of Drug Metabolizing Enzymes
Chaired by Kapitulnik Jaime, Israel / Poellinger Lorenz, Sweden
10:00-12:30

S39: Poly(ADP-ribosyl)ation: A Key Process for Pharmacological Intervention
Chaired by Huang Yu, Hong Kong / Thiemermann C., UK
10:00-12:30

S40: New Perspectives for the Treatment of Airway Inflammation
Chaired by Frossard Nelly, France / Wang Yibin, China
10:00-12:30

S41: Potential Drug Targets in the Renal Microcirculation
Chaired by Loutzenhiser Rodger, Canada / Ito Sadayoshi, Japan
10:00-12:30

S42: Purinergic Signaling
Chaired by Burnstock Geoffrey, UK / Ren Leiming, China
10:00-12:30

S43: Roles for Muscarinic Receptors in the Pathology of Schizophrenia
Chaired by Dean Brian, Australia / Wess Jurgen, Germany
10:00-12:30

S44: Evolving Perspectives in the Pharmacology of Osteoporosis
Chaired by Marie Pierre J., France / LAU Edith Ming-Chu, Hong Kong
14:45-17:15

S45: Vascular Complications of Diabetes-is Targeting the Endothelium a Viable Option for New Treatments?
Chaired by Triggler Chris, Australia / Su Dingfeng, China
14:45-17:15

S46: Acid-Related Diseases and Mucoprotective Agents: Studies from Cells to Patients-2
Chaired by Zhang Shu-tian, China / Cho Chi-hin, Hong Kong
14:45-17:15



S47: Juxtaglomerular Cell Pharmacology
Chaired by Gross Kenneth W., USA / Persson Pontus B., Germany
14:45-17:15

S48: Pharmacology and Physiology of Pacemaker Channels
Chaired by Franz Hofmann, Germany / Yang Baofeng, China
14:45-17:15



W4: Computational and in vitro Approaches for Predicting Drug Metabolism and Pharmacokinetics in Humans
Chaired by Sugiyama Yuichi, Japan / Vermeulen Nico P.E., Netherlands
14:45-17:15

EPHAR Mini-Symposium: Janus-Faced Enzymes: Generation of Reactive Oxygen Species by NO Synthases
14:45-17:15

Friday, 07 July

S49: Neuronal Plasticity under Insult: From Transcription to Function
Chaired by Soreq Hermona, Israel
10:00-12:00

S50: Prostaglandins in the Kidney
Chaired by Skott Ole, Denmark / Yang Tianxin, USA
10:00-12:00

S51: Pharmacogenetics in Cancer Therapy
Chaired by Tacca Mario Del, Italy / Figg William D., USA
10:00-12:00

S52: Intercellular Crosss-Talk in Blood Vessels: From Bench to Bedside
Chaired by Weston Arthur, UK / He Guowei, Hong Kong
10:00-12:00

S53: Chronotherapy: A New Means of Optimizing Therapeutic Outcomes and Safety
Chaired by Fujimura Akio, Japan / Smolensky Michael H., USA
10:00-12:00

S54: Molecular, Cellular and Clinical Pharmacology of Selective Serotonin Reuptake Inhibitors (SSRIs)
Chaired by Gether Ulrik, Denmark / Andersen Peter Høngaard, Denmark
10:00-12:00

S55: PPAR Agonists for the Treatment of Diabetes
Chaired by Herman M.Rhee, USA / Yoo Sung-eun, Korea
10:00-12:00

W5: New Advances in CNS Safety Pharmacology
Chaired by Porsolt Roger D., France / France Charles P., USA
10:00-12:00

Nominees for Executive Committee 2006-2010

Sue P. Duckles (USA)	President
Sam J. Enna (USA)	Secretary General
Urs Ruegg (Switzerland)	Treasurer
Salomon Z. Langer (Israel)	1 st Vice President
Masayoshi Mishina (Japan)	2 nd Vice President
Gabrielle Hawksworth (UK)	Councilor
Zhi-Bin Lin (China)	Councilor
Kim Broesen (Denmark)	Councilor
Mohamed T. Khayyal (Egypt)	Councilor
Sergio Ferreira (Brazil)	Councilor



Proposed Nominating Committee for 2006-2010

Based on suggestions from members of the Executive Committee, the following will be nominated for the IUPHAR Nominating Committee:

Bertil Fredholm (Sweden) Chair
Keitaro Hashimoto (Japan)
Sergio Erill (Spain)
Michel Eichelbaum (Germany)
James Angus (Australia)



1st International Symposium about Pharmacology of Natural Products (FAPRONATURA 2006)

and

1st International Symposium of the Latin- American and Caribbean Bulletin of Aromatic and Medicinal Plants (BLACPMA)

1st ANNOUNCEMENT

Club Amigo Plus Varadero, CUBA

November 20-24, 2006

Organized by the
Cuban Society of Pharmacology
BLACPMA Editorial Board

With the cooperation of
Center of Pharmaceutical Chemistry (CQF)
National Coordinating Center for Clinical
Trials (CENCEC)
Center for the Development of the
Pharmacoepidemiology (CDF)
Center for the Control & Quality of Drugs
(CECMED) National Center for Animal and
Plant Health (CENSA)

CALL FOR ABSTRACTS

Invitation

The International Symposia about Pharmacology of Natural Products and BLACPMA are organized by the Cuban Society of Pharmacology and BLACPMA editorial board to discuss update aspects concerning the development of the research in Natural Products for human and veterinary uses.

The Keynotes Address, Interactive Symposia, and Poster Exhibitions will give an unique

opportunity for discussion and cooperation to all Colleagues from Academia, Industry, Governmental Services and Research Institutes in the World, who are interested in sharing last experiences in this field.

We look forward to the great opportunity of welcoming you warmly at our International Symposia on Natural Products in Cuba.

René Delgado Hernández, Ph.D.
President FAPRONATURA 2006
President of Cuban Society of Pharmacology

Preliminary Program

November 20

10:00 – 18:00: Registration (Havana or Varadero)

12:30: Departure from Havana to Varadero

15:00: Arrival of Participants

18:00 -19:00: Welcome Ceremony

19:00 - 20:00: Open Conference

20:00 – 22:00: Welcome Reception

November 21 to 23

9:00 – 12:00: Plenary Lectures

14:00 - 18:00: Oral Communications and Round Tables

Poster Sessions (afternoon 22nd and 23rd)

November 24

9:00 – 12:00: Plenary Lectures

12:00 – 13:00: Conclusions and Closing Ceremony

14:00: Return to Havana

Hot Topics

Ethnopharmacology

Pharmacology of natural products

Preclinical pharmacology

Clinical pharmacology

Pharmacoepidemiology

Pharmacoeconomy and Pharmacological surveillance

**Collegium Internationale
Geronto Pharmacologicum
Congress 2006**

From Traditional through Bio-Molecular to
Nano-Technology Medication

10-13 August 2006

Borobudur Hotel Jakarta
Jakarta, INDONESIA

Host Society:
PERGERI
(Indonesian Association of Gerontology)

CONGRESS SECRETARIAT
PT. Pharma-Pro Int.
Phone : 62-21-55960180
Fax : 62-21-55960179
Email : cigp@cigp.org
Website : <http://www.cigp.org>

**16th International Symposium on
Microsomes and Drug Oxidations**

3-7 September, 2006

Budapest Congress & World Trade Center
Budapest, HUNGARY

Conference Secretariat:
Diamond Congress Ltd.
H-1027 Budapest, FQ´ u. 68, Hungary
H-1255 Budapest, P.O. Box 48
Phones: (+36) 1 214-7701, 214-7698, 225-
0210
Fax: (+ 36) 1 201-2680
E-mail: diamond@diamond-congress.hu
Website: www.diamond-congress.hu/
mdo2006

UPCOMING EVENTS

**American College of Clinical
Pharmacology 35th Annual
Meeting**

September 17-19, 2006

The Hyatt Regency
Cambridge, MA, USA

Co-Chairs: David J. Greenblatt, M.D., FCP
and Lisa L. von Moltke, M.D., FCP.

For more information, please contact:
Susan Ulrich
ACCP Executive Director
3 Ellinwood Court
New Hartford, NY 13413-1105
Phone: (315) 768-6117
Fax: (315) 768-6119
E-mail: ACCP1SSU@AOL.com
Website: www.ACCP1.org.

**“In learning and
straightway practising
is there not pleasure
also?”**

**When friends gather
round from afar do we
not rejoice?”**

**K’ung Fu-tzu (Confucius)
551 - 479 BCE**

PHARMACOLOGY
International

page

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June 2006

As I hope you are already aware, this year is the 75th Anniversary of ICSU, which was created on 11 July 1931. It also represents the first year in the implementation of the new Strategic Plan 2006-2011, which was endorsed by the General Assembly in Suzhou in October. One of the clear challenges for ICSU in implementing this plan is to reach out and communicate, via its Members and

expensive for ICSU to produce and distribute centrally, but we have had several enquiries from Members requesting the PDF files so that they can produce their own. These files will be made available in the Member only zone at www.icsu.org very soon.

Over the past couple of years, several Members have asked for articles on ICSU for

75th Anniversary of ICSU

A Letter from Thomas Rosswall, Executive Director

Interdisciplinary Bodies, to the international science community. The 75th Anniversary is a very timely opportunity and I am writing now to solicit your help in improving the visibility of ICSU.

Under the guidance of the Executive Board, the Secretariat is undertaking a number of activities specifically targeted at the 75th Anniversary.

Communication tools

A new ICSU brochure is in print and multiple copies (initially 15) will be distributed to all Members and Interdisciplinary Bodies early in April. Whilst stocks will not be completely unlimited, the aim is to distribute this brochure as widely as possible to interested audiences and your assistance in achieving this is requested. Should you require additional copies for distribution at relevant meetings that you are organizing, please contact secretariat@icsu.org.

A set of four posters, based on the design of the banners for the General Assembly, is being produced. One set will be distributed to all Members and Interdisciplinary Bodies and I hope that you will display these prominently. The full size banners themselves are too

inclusion in their own newsletters or journals. I am always happy to respond positively to such requests and in this anniversary year, it would be great to have opportunities to reach out to an even larger part of the scientific community in this way.

ICSU-75 Events

The Secretariat itself is involved in the planning for two specific anniversary events.

On 4th July, the French Académie des Sciences is organizing an ICSU science symposium, which will consist of an afternoon of science lectures relating to ICSU programmes and strategic priorities. This is targeted at the French science community, with ICSU Officers also in attendance. It would be excellent if other national Members were able to organize similar events or incorporate ICSU sessions into already planned events. The French symposium will be followed by a reception at the Paris Town Hall.

The planning is also beginning for an ICSU congress for young scientists – “Strengthening International Science for the Benefit of Society”, which will take place late in 2006 or early 2007. A small planning Group of young scientists is meeting in early April to develop a detailed agenda for this. It is hoped that each Member



will be willing to sponsor a young scientist to attend this event and you will be kept informed as the plans develop.

In addition to these specific events, many Unions and Interdisciplinary Bodies are holding their own international congresses, General Assemblies or meetings during 2006. You are strongly encouraged to consider how ICSU might be given some visibility at these gatherings. I appreciate that many of them are organized well in advance, but ICSU Officers have agreed 'in principle' to attend such meetings, provided that there is an opportunity for them to give a brief presentation. Alternatively, it may be possible to incorporate appropriate references to ICSU and its strategic plan into already scheduled presentations, such as Presidential addresses. In order to help with this, a corporate ICSU-75 powerpoint presentation will be made available in the Member zone of the ICSU website for those who wish to use or adapt it. Your events can provide ideal opportunities to display and distribute information on ICSU to interested audiences.

On behalf of the Executive Board, I ask you all to consider how best you can promote ICSU and its future strategy during this anniversary year. If linked to existing activities, it need not involve a lot of extra effort and resources. ICSU belongs to its Members and, after a very successful recent General Assembly, now is an opportunity to demonstrate to the wider world why you value being part of the ICSU community. ■

The 1st Japan-Korea Joint Symposium of Clinical Pharmacology and Therapeutics

The 1st Japan-Korea Joint Symposium of clinical pharmacology was held at Beppu, Japan on December 3, 2005. The Japanese Association of Clinical Pharmacology and Therapeutics and the Korean Society for Clinical Pharmacology and Therapeutics organized it together, and Prof. Kyoichi Ohashi (Japan) took the chair of the organizing committee. Four chairpersons and eight speakers from both countries participated in the symposium, which consisted of two sessions entitled pharmacogenetics and regulatory science. About 50 people attended the symposium and discussed common interests in clinical pharmacology of both countries.

The idea of the joint symposium originated from a desire to encourage regional activities by the council of the IUPHAR Division of Clinical Pharmacology at the World CPT conference in Brisbane in 2004. Prof. Shinichi Kobayashi (Japan) and Prof. Hyung-Keun Roh (Korea) discussed a possible collaboration of clinical pharmacologists between Japan and Korea for the first time and proceeded to the eventual 1st joint symposium. The next joint symposium will be held at Jeju Island, Korea on November 11, 2006.

We expect that the continuing Japan-Korea joint symposium will provide an opportunity for members of both societies to build collaborative and friendly relationships in the field of clinical pharmacology and expand our activities further.

Patrick du Souich, M.D., Ph.D.

Université de Montréal

Chair, IUPHAR Division of Clinical Pharmacology ■

15th IUPHAR World Congress of Pharmacology 2-7 July, 2006 - Beijing, CHINA

REGISTRATION

Beijing International Convention Center
Registration desks will be located in the lobby, BICC. Registration for the congress, technical information, social activities, local sight-seeing, and post-congress tours etc. will open July 1-5 (Monday) 09:00-20:00

SOCIAL ACTIVITIES

July 2 (Sunday)
17:00-18:00 Opening Ceremony (free)
18:00-18:50 Cultural Performance (free)
19:00-20:30 Welcome Reception (free)

July 6 (Thursday)
18:00-19:30 Farewell Banquet (optional)
USD35/person

IUPHAR 2006 SECRETARIAT

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Mr. Shuling Yan
China Consulting Center for Science and
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Beijing 100081, China
Tel: (+86 10) 62137470, (+86 10) 62103318
Fax: (+86 10) 62184931
cccst@iuphar2006.org

HOTELS

Great Wall Sheraton Hotel
Tel: (+86 10) 65905566
www.sheraton.com/beijing

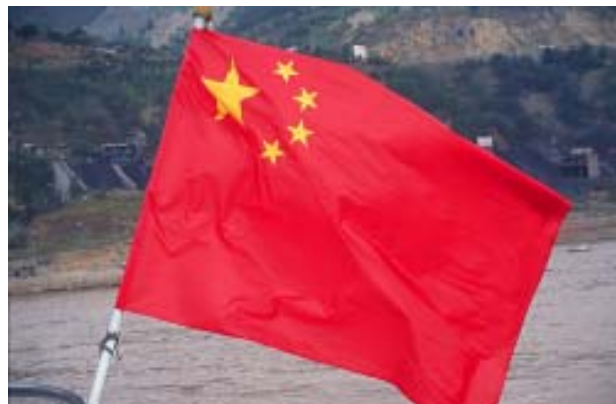
New Otani Chang Fu Gong Hotel
Tel: (+86 10) 65125555
www.cfgbj.com/cn

Kunlun Hotel
Tel: (+86 10) 65903388
www.hotelkunlun.com

Crowne Plaza Beijing - Park View Wuzhou
Hotel
Tel: (+86 10) 84982288
www.parkview.crowneplaza.com

Celebrity Grand (Mingren) Hotel
Tel: (+86 10) 64981166
www.cigh.com

Beijing Continental Grand Hotel
(reserved for the speakers of IUPHAR
2006)
Tel: (+86 10) 84985588
www.bcghotel.com



Beijing Tibet Hotel
Tel: (+86 10) 64980365
www.tibethotel.com

21 st Century Hotel
Tel: (+86 10) 64683311
www.21-hotel.com

Beijing Friendship
Tel: (+86 10) 68498888
www.bjfriendshiphotel.com

If you have booked hotel room on the registration form and paid hotel deposit, you can go directly to the hotel from airport and check in. The Secretariat will post personnel at each hotel recommended by the Congress to help delegates to check in.

TRANSPORTATION AND AIRPORT RECEPTION

The Congress will set up a stand from 09:00—21:00, July 1-2, 2006 in the lobby of the airport terminal building. Secretariat staff will help you to take a taxi from airport.

FOOD

Lunch coupons can be bought at registration desk for 9USD each (Buffet for Lunch). The buffet is served at the Beijing Continental Grand Hotel. Snack food will also be sold at the meeting place on each day.

POST-CONGRESS TOURS

PT1—PT4 tours will be arranged as planned. If any question or problem should arise in the field of Post—Congress tours, or if you want to make any changes, please contact Mr. Liu Xin of China Travel Service Head Office M.I.C.E. Service at lx.hj@ctsho.com