

# Pharmacology International

No. 77 December 2011 The semi-annual newsletter from the International Union of Basic and Clinical Pharmacology

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## An Unprecedented Industry-Academia Alliance to Accelerate GPCR Deorphanization Efforts

NC-IUPHAR and DiscoverX announce that they have formed an alliance to accelerate progress on understanding the functions of orphan G Protein-coupled receptors (GPCRs) and their signalling mechanisms. The goal of this unprecedented relationship is to have researchers worldwide gain greater knowledge and ultimately expedite the process of deorphanizing a whole set of putative disease targets. The results of their collaboration will be communicated through the IUPHAR Database at <http://www.iuphar-db.org> by indicating clearly where sufficient evidence exists that an endogenous ligand modulates receptor function directly.

GPCRs are a large family of proteins expressed on the surface of cells and are the target of approximately 30% of current medicinal drugs. About 130 GPCR receptors still remain for which the endogenous ligand (the natural signal used in the body to activate the GPCR) has not yet been identified. These receptors are referred to as "orphan receptors" and are the subject of extensive research. One of the most exciting challenges in pharmacology today is the identification of functional ligands for orphan GPCRs, a promising set of targets for the development of new medicines. There has been rapid progress in developing methodologies to address this problem. Most recently, DiscoverX has developed the PathHunter®  $\beta$ -Arrestin platform, which consists of an industry leading panel of over 98 cell lines expressing orphan GPCRs and provides a unique, powerful and proven method to deorphanize GPCRs. These cell lines have been successfully deployed by a number of drug discovery companies to deorphanize some important disease related orphan GPCR's. Reciprocal links between IUPHAR-DB and the DiscoverX websites have been established, enabling users of DiscoverX products to access cutting-edge information on orphan GPCRs in the IUPHAR-DB and to provide a portal for IUPHAR-DB users to access information on DiscoverX products. To receive updates about the ongoing developments, enroll at no cost with IUPHAR-DB RSS feeds or e-mails by visiting <http://www.iuphar-db.org/subscribe.jsp>.

### About DiscoverX Corporation

Founded in 2000, DiscoverX is a privately held, venture-backed company headquartered in Fremont, California, USA with additional offices in San Diego, California and Birmingham, UK.

*Continued on page 2...*



# An Unprecedented Alliance (continued)

The Company pioneered the use of  $\beta$ -galactosidase enzyme fragment complementation in biochemical and cell based assays for discovery research in fields of receptor biology, and holds extensive intellectual property in this area. DiscoverRx is dedicated to the development and commercialization of innovative solutions to study GPCRs, kinases and other major drug target classes, and many of their innovative products and solutions have been widely adopted in academic, pharmaceutical and biotech drug screening laboratories worldwide. In October 2010, it completed its acquisition of the KINOMEScan division (<http://www.kinomescan.com>) of Ambit Biosciences thereby becoming a key solution provider for kinase drug discovery profiling and screening. The Company is also a recipient of multiple Frost and Sullivan awards. For more information on DiscoverRx products and services, please visit <http://www.DiscoverRx.com>.

## About NC-IUPHAR (The International Union of Basic and Clinical Pharmacology Committee on Receptor Nomenclature and Drug Classification)

NC-IUPHAR is an international committee whose mission is to support biomedical research by providing to the international scientific community guidelines on the nomenclature of key receptors including GPCRs, ion channels, and drug binding sites. These guidelines are published in the journal *Pharmacological Reviews* and are made freely available through the IUPHAR Database (IUPHAR-DB), which is developed and maintained at the University of Edinburgh.

IUPHAR-DB is a popular online reference resource which currently covers the products of 616 human and rodent genes from four protein families: G protein-coupled receptors, voltage- and ligand-gated ion channels, and nuclear hormone receptors. The nomenclature guidelines, receptor classifications, and basic information on selected receptor ligands are formulated or collected by subcommittees of experts in the field. Today there are over 60 NC-IUPHAR subcommittees totaling approximately 700 scientists who volunteer their time to work on this project. The entire operation is overseen and directed by the NC-IUPHAR Committee, chaired by Dr. Michael Spedding. For GPCRs, NC-IUPHAR defines progress in this field via its evolving pharmacology group, chaired by Dr. Anthony Davenport and via its GPCR group chaired by Dr. Rick Neubig. The database committee, responsible for IUPHAR-DB, is chaired by Dr. Tony Harmar. These groups curate knowledge on receptors, issues guidelines on pharmacology and disseminate this information via the IUPHAR Database. Earlier this year IUPHAR and the British Pharmacological Society (BPS) signed an agreement to work jointly in producing the long-standing BPS publication *Guide for Receptors and Channels (GRAC)* and the IUPHAR-DB (<http://www.GuideToPharmacology.org>). •

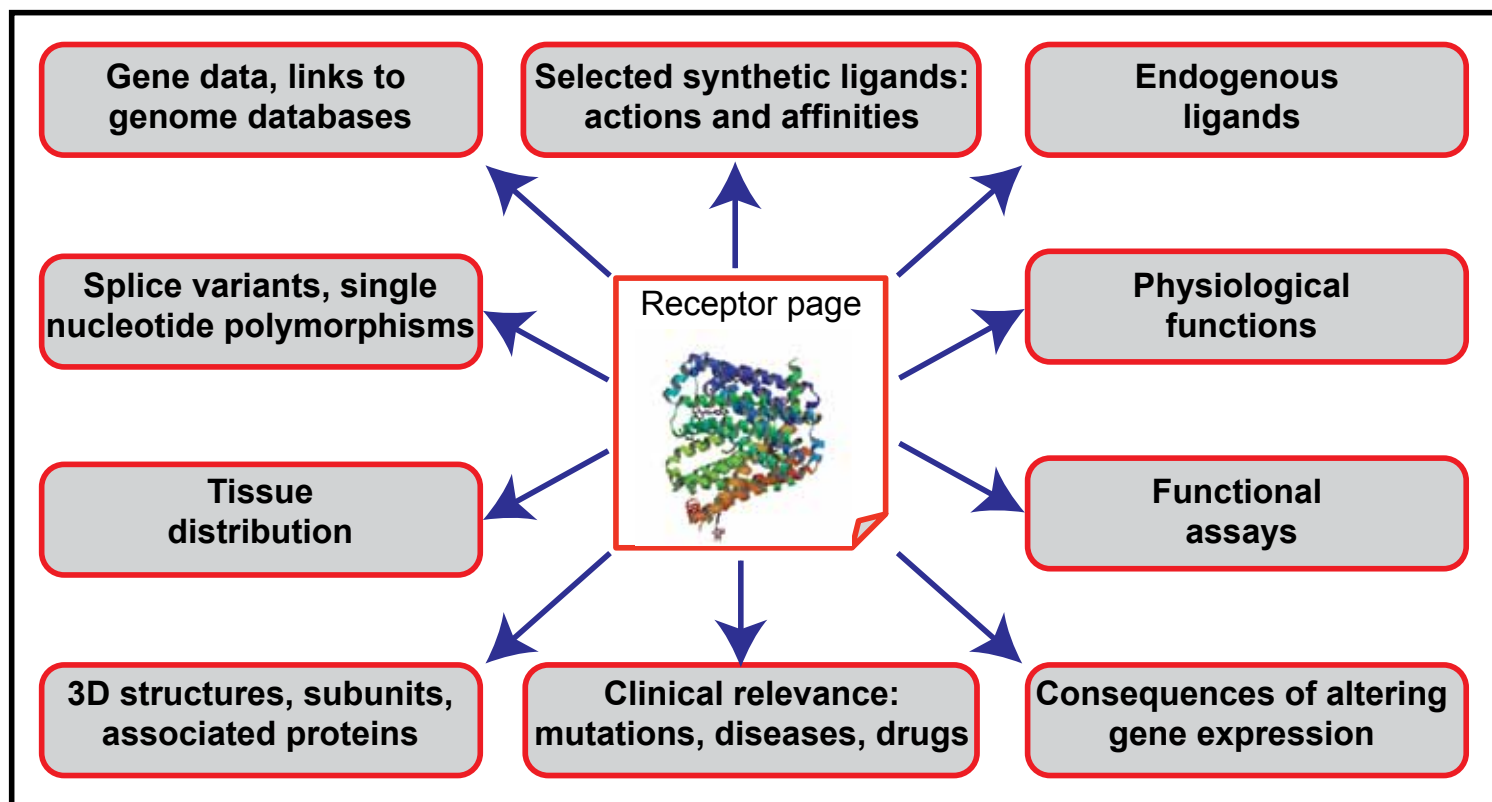
**DiscoverRx Corporation**  
Sailaja Kuchibhatla

**NC-IUPHAR**  
Professor Michael Spedding  
Chair NC-IUPHAR  
[curators@iuphar-db.org](mailto:curators@iuphar-db.org)

*Adapted from the September 6, 2011 press release by DiscoverRx and NC-IUPHAR.*

# IUPHAR DATABASE

International Union of Basic and Clinical Pharmacology



- Detailed information on 617 drug targets (G protein-coupled receptors, ion channels and nuclear hormone receptors)
- Ligand pages give information on chemical structures, physicochemical properties and radiolabelled analogues
- Search for receptors and ligands by name, keyword, publication or ligand structure



Visit  
[GuideToPharmacology.org](http://GuideToPharmacology.org)  
a single source for  
data from IUPHAR-DB  
and GRAC



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## Introducing the Geriatric Clinical Pharmacology Subcommittee

Population aging is a recent and dramatic global phenomenon. The world's population is aging rapidly, and very elderly people are its fastest growing age group. Much of this recent increase in life expectancy reflects advances in modern medicine and pharmacology. Many diseases and associated disabilities are being pushed further back into even older ages, representing a genuine 'compression of morbidity'. It is a triumph rather than a crisis.

However, old age is now the major risk factor for most diseases in the majority of the world's populations. A typical eighty year old person might have as many as five different illnesses and, as a result, be taking five-to-ten different prescribed medications. Older people as a group are the biggest users of medications, but paradoxically this is often the age group where we have the least pharmacological understanding and the greatest concerns about adverse outcomes related to medication usage.



Geriatric pharmacology faces many challenges. How do we assess effectiveness in older people and how do we include frail, older people in clinical trials? How do we minimize harms associated with polypharmacy and reduce the age-related increase in adverse effects? What medications are essential in older people and which ones should be avoided? Can medications be developed that slow the aging process and/or further delay the onset of age-related diseases?

The Geriatric Clinical Pharmacology Subcommittee of the Clinical Division of IUPHAR was formed in 2010 in response to the challenges of medication use and prescribing in older people. In some ways, we hope that this will parallel the development of IUPHAR Pediatric Clinical Pharmacology Section, which started as a small group but is now very influential and important to IUPHAR and offers assistance to the World Health Organization with its focus on vulnerable populations.

The Subcommittee aims to foster geriatric pharmacology internationally and to develop and lead strategies to improve medication-related outcomes in older people. In June 2011, the Subcommittee sponsored its first session at the EACPT2011 Annual Scientific Meeting in Budapest.

*Continued on page 5...*

## Geriatric Clinical Pharmacology Subcommittee (continued)



This IUPHAR session focussed on research into the functional outcomes of pharmacotherapies in older people. Presentations by David Le Couteur (above right), Petra Thurman (above left) and Simon Bell (bottom right) drew attention to population-level data linking adverse functional outcomes with medications, while a presentation by Gary Ford (bottom left) focussed on good functional outcomes associated with thrombolysis in older people with acute stroke.

Our major goals include: growing our membership number; collaborating with scientists and other scientific societies; raising public awareness about medications and pharmacology in older people; organizing congresses and meetings on geriatric clinical pharmacology; and identifying and publishing information about medication safety and efficacy in elderly people.

For more information or to join the Geriatric Clinical Division Subcommittee, please contact [IUPHAR@kumc.edu](mailto:IUPHAR@kumc.edu) . ●

David Le Couteur (Chair), Petra Thürmann, Darrell Abernethy, and Sarah Hilmer





## Seeking Palestinian Pharmacologists for the Palestinian Scientists and Experts Database

The Palestine Academy for Science and Technology (PALAST) was established in 1997 as a national umbrella organization for science, technology and innovation. PALAST was mandated in 2004 as an advisory institute for governmental and other relevant institutions in issues related to science and technology. In its endeavour to reach out to Palestinian scientists and experts, PALAST is building the Palestinian Scientists and Experts Database (PSEDB). A full description is available at [http://www.palestineacademy.org/main/index.php?option=com\\_content&view=category&layout=blog&id=82&Itemid=100&lang=en](http://www.palestineacademy.org/main/index.php?option=com_content&view=category&layout=blog&id=82&Itemid=100&lang=en). The goals of the database are to enable PALAST to establish and maintain links with Palestinian scientists and experts plus facilitate networking among the registrants as well as with Palestinian institutions that often seek expertise to strengthen their base of science, technology and innovation.

Self-registration in the database involves completing a simple online form at: [http://www.palestineacademy.org/main/index.php?option=com\\_form&view=form&Itemid=137&lang=en](http://www.palestineacademy.org/main/index.php?option=com_form&view=form&Itemid=137&lang=en).

Once the entries are validated, registrants may choose whether their contact information shall appear on the PALAST / STIO contact list. Registrants may also elect to have their contact information available in the Open Access database where Palestinian institutions, scientists and experts may access the database in order to build networks, seek expert advice, or peer review support. For queries, please email [info@palestineacademy.org](mailto:info@palestineacademy.org).



## **REQUEST FOR PROPOSALS REGIONAL FOCUSED CONFERENCES**

IUPHAR will consider sponsoring a series of Regional Focused Conferences to be held in the years between the IUPHAR World Congresses. Generally, these conferences will have:

- a regional focus involving national pharmacology societies from three or more countries in the region and
- a theme or focus on a basic or clinical pharmacology or therapeutic area of particular interest or importance to the region.

IUPHAR would provide a loan of up to US\$10,000 for such conferences. Potential conference organizers should indicate how the conference and program will stimulate interactions between pharmacology societies in the region, perhaps leading to formation of further regional groupings of pharmacology societies.

Member societies of IUPHAR interested in organizing a Regional Focused Conference should contact the office of the IUPHAR Secretary-General at [IUPHAR@kumc.edu](mailto:IUPHAR@kumc.edu) .●

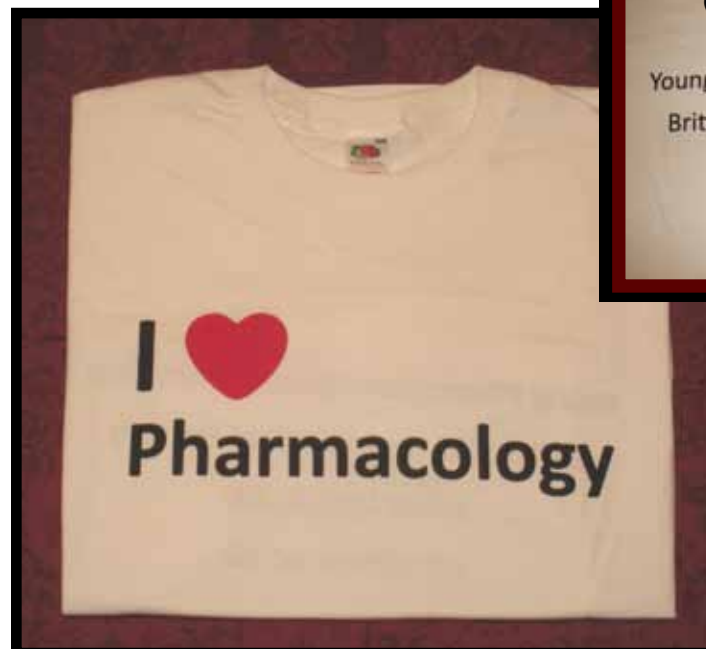


# I ♥ Pharmacology T-shirts

The Young Pharmacologists' Committee of the British Pharmacological Society (BPS) is proud to be part of the society's initiative to raise money to support African students to attend the 17<sup>th</sup> World Congress of Pharmacology in Cape Town, South Africa during 2014. We trust this will create an incredibly valuable experience for young enthusiastic pharmacologists with limited funds to travel to and attend an international conference.

As our contribution, we are selling "I love Pharmacology" t-shirts for £5 each from the BPS booth during meetings. To buy a t-shirt for yourself and your colleagues, visit [www.bps.ac.uk/meetings](http://www.bps.ac.uk/meetings) for a full list of upcoming conferences, then visit us at the BPS booth.

Currently, we have raised £1424 as part of this initiative, £611 of which has been raised through donations of society members during the registration for the BPS Winter Meeting this coming



*(the back of the shirt)*

Young Pharmacologists Committee  
British Pharmacological Society  
[www.bps.ac.uk](http://www.bps.ac.uk)  
[info@bps.ac.uk](mailto:info@bps.ac.uk)





*The IUPHAR Executive Committee hopes you will buy a t-shirt from the BPS Young Pharmacologists!*

December. The remaining £813, which continues to increase, has been raised through the sale of our 'I love Pharmacology' branded t-shirts. The t-shirts have indeed been a knockout success and worn at conferences on an international level and formed a focal point of a number of networking events, the scale of which increases every year. The young members continue to wear them with pride at such events and, for those that don't, we rest assured that the t-shirts are put to good use as pyjamas at least.

With this year's BPS Winter Meeting selling out three weeks before the meeting we look forward to sharing our love for pharmacology through social events and young pharmacologists committee organized symposia. We thank all the members of the BPS, past, present and future for their continued support for this worthy cause. ●

Dan Reed and Jane Mitchell  
Young Pharmacologists' Committee

**BPS** | **BRITISH PHARMACOLOGICAL SOCIETY**  
Today's science, tomorrow's medicines

**Winter Meeting, London 2011**  
**Queen Elizabeth II Conference Centre**  
**Wednesday 14 December**

**Stem cells: Pharmacology and therapeutics**

**Organizers:**  
**Young Pharmacologists' Committee**

## **2012 IUPHAR Member Society Milestone Anniversaries**

***IUPHAR congratulates  
the following member societies on  
milestone anniversaries:***

Swedish Society for Pharmacology,  
Clinical Pharmacology and Therapeutics  
1907 - 2012

Japanese Pharmacological Society  
1927 - 2012

Belgian Society of Fundamental and  
Clinical Physiology and Pharmacology  
1947 - 2012

Korean Society of Pharmacology  
1947 - 2012

Russian Scientific Society of Pharmacology  
1952 - 2012

Egyptian Society of Pharmacology  
and Experimental Therapeutics  
1957 - 2012

Western Pharmacology Society  
1957 - 2012



**2012 IUPHAR Member Society  
Milestone Anniversaries**  
(Continued)

Hungarian Society for Experimental  
and Clinical Pharmacology  
1962 - 2012

Latvian Society of Pharmacology  
1972 - 2012

Southeast Asian Western Pacific Federation of  
Pharmacologists  
1972 - 2012

Spanish Society of Pharmacology  
1972 - 2012

Pharmacological Society in Taiwan  
1982 - 2012

European College of Neuropsychopharmacology  
1987 - 2012

Serotonin Club  
1987 - 2012

French Pharmacology and Therapeutics Society  
1997 - 2012



# ECNP

european college of  
neuropsychopharmacology

To advance the science of the brain, promote  
better treatment and enhance brain health

In March 1984 representatives of nine European neuropsychopharmacological societies gathered in Copenhagen to celebrate the 25<sup>th</sup> anniversary of the Scandinavian College of Neuropsychopharmacology (SCNP). A special symposium considered the future of the field in Europe. At the lunch afterwards, amidst much discussion about the field's developing needs, the idea emerged for establishing a European college to give Europe's neuropsychopharmacologists an identity and voice to match the region's evolving political and economic union. Before the lunch had ended, an agreement had been reached. The new College would be launched with an initial, exploratory meeting the following year.

The resulting meeting, organised by the SCNP secretary, Per Bech, was duly held in May, 1985 at the Hotel Scandinavia in Copenhagen. No fewer than 400 European neuropsychopharmacologists attended. The demand was clear and, on the basis of this success, it was decided to take the idea even further. A 16-person working group was formed for planning for the College's first congress.

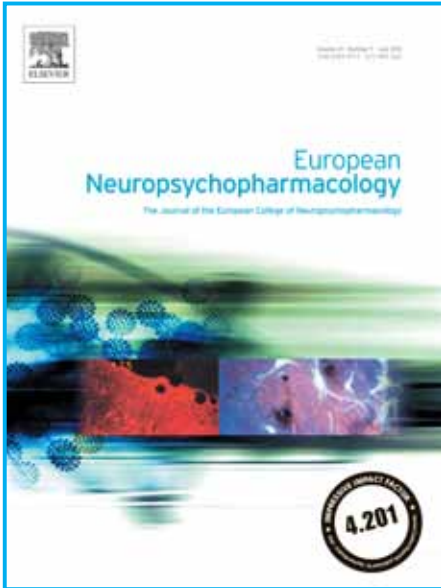
## The founding members of ECNP in 1984 were:

Carlos Ballús, Spain  
Per Bech, Denmark  
Giovanni Cassano, Italy  
Markus Gastpar, Switzerland  
Carl-Gerhard Gottfries, Sweden  
Hanns Hippus, Germany  
Julien Mendlewicz, Belgium  
Michael Trimble, Great Britain  
Willem Verhoeven, The Netherlands

In 1987 ECNP formally opened its doors, with a congress in Brussels. Some 500 people – a remarkable turnout for a new meeting – attended from across Europe, amply vindicating the founders' vision. The first executive committee of the College was elected under the presidency of Carl-Gerhard Gottfries of Sweden, and work on its constitution – approved two years later at the second ECNP congress in Gothenburg – was set in motion.

# 25 Years of ECNP

(continued)



By 1990 the College was sufficiently established to found its own journal, *European Neuropsychopharmacology*, under the editorship of Jan van Ree of the Netherlands and Stuart Montgomery of the UK.

Twenty-five years later the ECNP Congress attracts upwards of 7,000 participants, and has become Europe's benchmark scientific meeting in its field. From the one-person secretariat that Per Bech, ECNP's founding secretary, set up in Denmark, the ECNP Office has grown to encompass 11 people. Today it organises not just the ECNP Congress, but the many other scientific seminars, schools and workshops held throughout the year and which together make the College the largest non-institutional supporter of neuropsychological research and education in the region. The goals though have remained consistent throughout: to promote scientific exchange across Europe and stimulate high-quality research in neuropsychopharmacology.

The College is actively working on continuing this record for the next 25 years. ●

Alexander Schubert, Ph.D.  
Executive Director  
European College of Neuropsychopharmacology



[www.ecnp-congress.eu](http://www.ecnp-congress.eu)



The Serotonin Club (<http://www.SerotoninClub.org>) is an international association for biomedical scientists interested in research on any aspect of the neurotransmitter serotonin. Serotonin is a key neurotransmitter that continues to be the focus for research important to substance abuse, pain, cardiovascular function, digestive processes, and mental health.

The Serotonin Club was brought into being over dinner by a small group of serotonin researchers in Sydney, Australia in 1987. This group gathered after a symposium on serotonin during the 10<sup>th</sup> International Congress of Pharmacology. Their objective was to form a professional society to promote scientific communication among serotonin researchers. The rapidly increasing interest in serotonin at the time had resulted in much closer contacts between serotonin pharmacologists worldwide, which led Paul Vanhoutte in July 1985 to propose the formation of a serotonin club to a group of colleagues. Paul Vanhoutte was the first president and Ewan Mylecharane the first secretary/treasurer of this new Serotonin Club [1].

In the early 1980s there was accumulating evidence for several subtypes of receptor for serotonin. However, there was little agreement on nomenclature and classification of these receptors. In 1984, a working group was formed to address the growing controversy. In 1986, P.B. Bradley and colleagues proposed a classification for serotonin receptors into three main groups, *i.e.*, 5-HT<sub>1</sub>, 5-HT<sub>2</sub> and 5-HT<sub>3</sub> receptors [2]. This initial framework for classification served as a template that was later expanded to accommodate subsequent discoveries. Because of the complexity of the serotonin field, the Serotonin Club very early on established its own nomenclature committee. Eventually, the basic principles and guidelines developed for the classification of a sometimes seemingly overwhelming number of serotonin receptor subtypes served as a template adopted by the entire field of pharmacology, and led to the creation of the IUPHAR Committee on Receptor Nomenclature and Drug Classification ([www.iuphar.org/nciuphar.html](http://www.iuphar.org/nciuphar.html)) [3].

# SEROTONIN CLUB SILVER ANNIVERSARY (CONTINUED)

The Serotonin Club currently has a membership of over 450 persons. Members receive a regular newsletter with information on scientific meetings, recent publications, and any other matters of interest to those working on serotonin. This dynamic research society sponsors an international meeting on serotonin every other year, appropriate for such a rapidly developing scientific field. The meetings bring together the best in serotonin scientists from academia and industry, junior and senior, and are often official satellite meetings to IUPHAR, or the Federation of European Pharmacological Societies (EPHAR). Recent Serotonin Club meetings have been held in Acapulco (Mexico, 2002), Porto (Portugal, 2004), Sapporo (Japan, 2006), Oxford (UK, 2008), and Montreal (Canada, 2010). In addition, the Club convenes annually at the international Society for Neuroscience meeting.

The Serotonin Club will be celebrating its 25<sup>th</sup> year in 2012 with an international conference in Montpellier, France (pictured at right). This meeting will be held at the Faculty of Medicine (pictured at lower right) July 10-12<sup>th</sup>, and is an official satellite of EPHAR 2012 in Granada, Spain. The program is outstanding and, as has long been the case, provides the chance to hear presentations on the latest developments in serotonin research by leading scientists from both academia and industry. The program also features keynote addresses by Elaine Sanders-Bush and Ewan Mylecharane, eminent leaders in serotonin research, honored for their role in the development of our understanding of this important neurotransmitter and their significant and sustained contributions to the field. Because of the relatively small size, the Serotonin Club meeting is an unparalleled opportunity for junior investigators and leaders in the field to meet for face-to-face conversations, networking and collaboration. Come join the celebration! ●

Julie Hensler, President  
Sheryl Beck, Secretary Treasurer

1. Green AR, Marsden CA and Mylecharane EJ. (2008) The Serotonin Club: coming of age. *Trends Pharmacol Sci* 29:431-432.
2. Bradley PB, Engel G, Feniuk W, Fozard JR, Humphrey PP, Middlemiss DN, Mylecharane EJ, Richardson BP, Saxena PR. (1986) Proposals for the classification and nomenclature of functional receptors for 5-hydroxytryptamine. *Neuropharmacology* 25:563-576.
3. Hoyer D, Clarke DE, Fozard JR, Hartig PR, Martin GR, Mylecharane EJ, Saxena PR, Humphrey PP. (1994) International Union of Pharmacology classification of receptors for 5-hydroxytryptamine (Serotonin). *Pharmacol Rev* 46:157-203.



## MEETING REPORT: IV<sup>th</sup> National Congress of the Pharmacologists of Ukraine

The IV<sup>th</sup> National Congress of Pharmacologists of Ukraine was held in Kyiv, Ukraine, on October 10-12, 2011. A truly collaborative effort, it was organized by the National Academy of Medical Science of Ukraine (NAMS), the Ministry of Health of Ukraine (MoH), the State Institution “Institute of Pharmacology and Toxicology NAMS of Ukraine (Institute of Pharmacology and Toxicology), and the State Expert Center MoH Ukraine. Over 200 participants from 14 different regions in Ukraine took part in the Congress. Of this group, 136 delegates were from regional branches of the All-Ukrainian Public Organization, the Association of Pharmacologists of Ukraine (the Association).



Delegates from different regions of Ukraine. Pictured L → R: Dr. V. Khomenko (Kyiv), Dr. Z. Omelyanenko (Kyiv), Prof. Zamorsky (Chernovtsy), Prof. S. Drogovoz (Kharkiv), Prof. G. Grigorieva (Kyiv), Prof. V. Kovalenko (Kyiv), Prof. L. Kirichuk (Kharkiv), and Prof. T. Zvyagintseva (Kharkiv).

The opening ceremony of the Congress was held at the Conference Center of the Kyiv’s *President Palace*. The proceedings included welcome addresses by the Association Vice-Presidents, Professors Valentyn Kresiun (Pro-Rector, Odessa State Medical University) and Ganna Grigorieva (Deputy Director, Institute



of Pharmacology and Toxicology), followed by a presentation entitled, “The Role of Pharmacology in Modern Medicine” by

The Vice-Presidents of the Association during the IV<sup>th</sup> National Congress of Pharmacologists of Ukraine Opening Ceremony. L → R: Professors G. Grigorieva, V. Mamchur, and V. Kresiun

*Continued on page 17...*



# IV<sup>th</sup> National Congress of the Pharmacologists of Ukraine

(continued)

the President of the Association, Professor Tetiana Bukhtiarova (Director, Institute of Pharmacology and Toxicology). Reports were then delivered by Members of the NAMS, Professors Mykola Golovenko (Head, Physico-Chemical Pharmacology Department of the O.V. Bogatsky's Institute of Physical Chemistry NAMS), and Olena Nesukay (Leading Researcher, M.D. Strazhesko Institute of Cardiology NAMS).

The scientific program was divided into the seven themes with each focusing on a different aspect of pharmacology in Ukraine. The organizers wish to acknowledge the efforts of the moderators and speakers:



Before the Congress Opening Ceremony. L → R: Professors O. Yarosh and G. Grigorieva, Vice-President of the Association

*Actual Problems of General Pharmacology*

Vitalii Mamchur, Ganna Grigorieva, Leonid Gromov, Igor Belenichev, Mykola Mohort and Yaroslava Gudyvok, Olexander Yarosh, Sergiy Popov, Georgiy Stepaniuk and Stella Frantsuzova

*Current Problems in Clinical Pharmacology and Rational Pharmacotherapy*

Nadiia Gorchakova and Sergii Naliotov

*Pharmacology of Chemotherapy Drugs*

Nadiia Sharykina and Larysa Savchenkova

*Current Issues in Experimental Drugs Toxicology and Safety Pharmacology*

Valentyna Kovalenko, Kateryna Posohova, Viktor Lukianchuk and Raisa Kosuba

*Supervision of Safety Pharmacology*

Vladlena Godovan and Olena Matveieva

*Urgent Issues in Modern Pharmacognosy and Phytotherapy*

Olexandr Tsurkan, Natalia Maslova and Svetlana Drogovoz

*Problems in Pharmacological Education, Pharmacoeconomics and Pharmacocare*

Igor Zupanetz and Igor Zamorsky



Additional activities include a poster session on topics of common interest and a workshop on "Supervision of Safety Pharmacology: Modern approaches", which were popular with the participants. The IV<sup>th</sup> National Congress of Pharmacologists of Ukraine also featured a competition for young scientists. Satellite symposia were sponsored by Ranbaxy Lab, Ltd., Sanofi-Ukraine and SIC "Borzhangovsky Chemical-Pharmaceutical Plant" CJSC.

Discussions followed Professor I. Chekman's lecture "Modern Problems of Nanopharmacology" L → R: Professors I. Chekman and G. Stepaniuk

Continued on page 18...

# IV<sup>th</sup> National Congress of the Pharmacologists of Ukraine

(continued)



Satellite symposia. Professor N. Kharchenko (standing) delivered a lecture on problems in gastroesoreflux disease pharmacotherapy, accompanied by Professor V. Chernobrov (seated).

The event was also the venue for the election of the Association's governing body for 2012 - 2017. Congratulations to the newly elected executives:

<i>President:</i>	Tetiana Bukhtiarova
<i>Vice-Presidents:</i>	Ganna Grigorieva and Valentyn Kresiun
<i>Secretary:</i>	Ganna Shayakhmetova
<i>Treasurer:</i>	Ludmyla Boitsova
<i>Council Members:</i>	Igor Belenichev Igor Zupanetz Viktor Lukianchuk Mykola Golovenko Vitalii Mamchur Natalia Maslova Igor Polevik Kateryna Posohova Anatoliy Tzypkun Ivan Chekman
<i>Audit Committee:</i>	Viktor Bobyriov Vladlena Godovan Tetiana Zviagintseva Georgiy Stepaniuk Lidiya Sheremeta

The closing ceremony was held Wednesday afternoon, October 12<sup>th</sup>, where the organizers of the IV<sup>th</sup> National Congress of Pharmacologists of Ukraine expressed their thanks to all sponsors and lecturers who contributed to the success of the congress. ●

Ganna Shayakhmetova  
Secretary

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# Upcoming Events

## **March**

### **British Pharmacological Society Focused Meeting - Challenges in Neurotherapeutics: From Animal Models to Clinical Needs**

March 8 - 9, 2012 in Dublin, Ireland

<http://www.bps.ac.uk/details/meeting/984923/BPS-Focused-Meeting---Challenges-in-Neurotherapeutics-From-Animal-Models-to-Clin.html>

### **85<sup>th</sup> Annual Meeting of the Japanese Pharmacological Society**

March 14 - 16, 2012 in Kyoto, Japan

[http://www.jps85.umin.jp/index\\_en.html](http://www.jps85.umin.jp/index_en.html)

### **Annual Meeting of the American Society for Clinical Pharmacology and Therapeutics**

March 14 - 17, 2012 in Washington DC, USA

<http://www.ascpt.org/Meetings/FutureAnnualMeetings/tabid/6705/Default.aspx>

### **European College of Neuropsychopharmacology (ECNP) Workshop on Neuropsychopharmacology for Young Scientists in Europe followed by the ECNP Consultation Meeting**

March 15 - 18 and 18 - 20, 2012 in Nice, France

<http://www.ecnp.eu/emc.asp?pagelId=315>

### **The Biomedical Basis of Elite Performance: A joint meeting of the British Pharmacological Society, the British Physiological Society, and Wiley-Blackwell**

March 19 - 21, 2012 in London, UK

<http://www.bps.ac.uk/details/meeting/1038543/The-Biomedical-Basis-of-Elite-Performance.html>

### **78<sup>th</sup> Annual Meeting of the German Society for Experimental and Clinical Pharmacology and Toxicology Association**

March 20 - 22, 2012 in Dresden, Germany

<http://www.dgpt-online.de>

# Upcoming Events

(continued)

## April

**7<sup>th</sup> P2T Congress organized by the French Society of Pharmacology and Therapeutics**

April 4 - 6, 2012 in Dijon, France

<http://www.pharmacol-fr.org>

**Spring meeting of the Swiss Society of Pharmacology and Toxicology**

April 19, 2012 in Bern, Switzerland

<http://www.swisspharmtox.ch>

**Experimental Biology '12 sponsored by the American Society for Pharmacology and Experimental Therapeutics**

April 21 - 25, 2012 in San Diego, California, USA

<http://aspet.org/meetings.aspx>

**4<sup>th</sup> British Pharmacological Society Meeting on Cell Signalling**

April 23 - 24, 2012 in Leicester, UK

<http://www.bps.ac.uk/details/meeting/1315279/4th-BPS-Focused-Meeting-on-Cell-Signalling.html>

## June

**Focused Meeting on Neuropeptides sponsored by the British Pharmacological Society**

June 7 - 9, 2012 in London, UK

<http://www.bps.ac.uk/details/meeting/1314963/Focused-Meeting-on-Neuropeptides.html>

**2<sup>nd</sup> International Congress on Pharmacology of Vaccines**

June 16 - 20, 2012 in Cayo Santa Maria, Cuba

<http://www.vaccipharmacuba.com>

## July

**Physiology 2012: FFARmacology in Diabetes: An Emerging Picture for the Free Fatty Acid Receptor Family in Disease jointly sponsored by the British Pharmacological Society and the British Physiological Society**

July 2 - 5, 2012 in Macclesfield, France

<http://www.bps.ac.uk/details/meeting/1358339/Physiology-2012---BPS-and-Physiological-Society-Joint-Symposium.html>

**Serotonin Club Meeting: Satellite to the 6th European Congress on Pharmacology EPHAR 2012**

July 10 - 12, 2012 in Montpellier, France

<http://www.serotoninclub.org>

**6<sup>th</sup> European Congress on Pharmacology EPHAR 2012**

July 17 - 20, 2012 in Granada, Spain

<http://www.ephar2012.org>

To include your events here, please e-mail the details to [iuphar@kumc.edu](mailto:iuphar@kumc.edu).



**The American Society for Pharmacology and Experimental Therapeutics**  
Divisions for Pharmacology Education and Behavioral Pharmacology  
invite you to participate in

**The real world of therapeutic drugs:  
Bench to boardroom, the bedside and beyond**

Chair: P.K. Rangachari, McMaster Univ., Ontario  
San Diego Convention Center, Room 5A  
9:30 am – 12:00 pm on Monday, April 23, 2012

*Framing interdisciplinary courses: Promises and pitfalls*  
P. K. Rangachari, McMaster Univ., Ontario, Canada

*Tomorrow's prescribers: How should we train them, assess them and support them?*  
Simon Maxwell, Univ. of Edinburgh, United Kingdom

*That's a great drug, but who's paying for it - Beyond the do no harm paradigm*  
David Macarios, Amgen, Inc., Thousand Oaks, California, USA

*Discussing the benefit & risks of drug therapies:  
Interpreting drug information for healthcare providers and patients*  
Sandra Milligan, Amgen, Inc., Thousand Oaks, California, USA

*Social Pharmacology: A new topic in Pharmacology*  
J. L. Montastruc, Univ. Paul Sabatier, Toulouse, France

For more information visit  
<http://www.ASPET.org/EB2012program>

To register for EB2012 visit  
<http://www.ASPET.org/EB2012>

# EACPT Summer School on education 2012

August 2012 - Amsterdam, The Netherlands

I cordially invite you to attend the first EACPT Summer School on Education to be held in Amsterdam from 23-25 August 2012. This 3-day Summer School is being organized because the curricula in medicine, pharmacy and nursing are changing rapidly on the basis of new insights regarding education. This could be seen as a threat to the current teaching of pharmacology, clinical pharmacology and therapeutics, but it can also be an opportunity to strengthen it. Together with experts in these fields, we want to share the new knowledge and expertise regarding teaching methods and the way students learn with you and your colleagues. You, too, will be an expert when you return to your faculty after these 3 days. Furthermore, together with you and all the participants, we want to create a network of PCPT teachers under the umbrella of the EACPT and its education subcommittee.

Please subscribe to our Newsletter which will be send to you regularly by email (see <http://www.eacpt-amsterdam.nl>). In particular we will inform you by email when the registration opens. Be sure you can attend this unique Summer School – the number of participants is limited!

You could also consider coming to Amsterdam a few days earlier or staying a few days longer, or even combining it with a holiday and enjoying the atmosphere of this famous city and the Netherlands. I sincerely hope to welcome you next year.

On behalf of the European Association of Clinical Pharmacology and Therapeutics, the Dutch Society for Clinical Pharmacology and Biopharmacy, and the VU University Medical Center,



Professor Theo PGM De Vries  
Chairman of the Organizing Committee

<http://www.EACPT-Amsterdam.nl>

EACPT Summer School on Education 2012

August 23-25, 2012 | Amsterdam, The Netherlands

# Pharmacology International

Published June and December

## Editor-in-Chief

Dr. S.J. Enna, Secretary-General

## Managing Editor

Ms. Lynn LeCount, Admin. Officer

## Editorial Board

The IUPHAR Executive Committee serves as the Editorial Board.



Pharmacology  
International

December 2011



## Published by

IUPHAR Administrative Office  
University of Kansas Medical Center  
3901 Rainbow Blvd., Mail Stop #4016  
Kansas City, Kansas 66160 USA  
Tel: 1.913.588.7533  
Fax: 1.913.588.7373  
[iuphar@kumc.edu](mailto:iuphar@kumc.edu)  
[www.iuphar.org](http://www.iuphar.org)



Dr. Enna's office L→R: Lynn LeCount, Leigh Ann Arbuckle, Cindy Martin, and S. J. Enna

## Contributions:

We welcome contributions from member societies, divisions, sections and committees. Please submit articles and photographs to [iuphar@kumc.edu](mailto:iuphar@kumc.edu) at least one month prior to the cover date.

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ISSN 1462-9941

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