

Working report 2011

Members of the Section

Ingolf Cascorbi, Kiel, Germany (Chair)
Laurent Becquemont, Paris, France
Kim Brøsen, Odense, Denmark
Ingolf Cascorbi, Kiel, Germany
Ann Daly, Newcastle upon Tyne, United Kingdom
Magnus Ingelman-Sundberg, Stockholm, Sweden
Deanna Kroetz, San Francisco, CA, USA
J. Steven Leeder, Kansas City, MO, USA

Adrian Llerana, Badajoz, Spain
Vural Ozdemir, Montreal, Quebec, Canada
Matthias Schwab, Stuttgart, Germany
Toshiyuki Someya, Niigata, Japan
Andrew Somogyi, Adelaide, Australia
Julia Stingl, Ulm, Germany
Guilherme Suarez-Kurtz, Rio de Janeiro, Brazil

The Section of Pharmacogenetics had no formal meeting, but concentrated its efforts to a focussed meeting in 2011 and will operate similarly in 2012.

Symposium “Pharmacogenomics of psychoactive drugs” held in Antalya, Turkey on November 25, 2011

On occasion of the 4th International Congress of Psychopharmacology in Antalya from November 23-26, 2012, the Section of Pharmacogenetics had co-organized a symposium on “Pharmacogenomics of psychoactive drugs” together with the Turkish Association for Psychopharmacology, represented by Prof. Feyza Aynacioglu from the University of Istanbul. The support of IUPHAR contributed significantly to realize this symposium within this international meeting.

The symposiums covered different aspects of pharmacogenetics contributing to drug efficacy, behaviour and drug safety. The first highly interesting talk was held by Tanja Brückl, from the Max-Planck-Institute of Psychiatry in Munich, Germany on “Role of polymorphic drug transporters in treatment resistant depression”. This group around Dr. Markus Uhr identified e.g. venlafaxine to be a substrate of P-glycoprotein and reported a genetic variant in the ABCB1 efflux transporter associated to the efficacy of antidepressants. Adrian Llerana from The University of Extremadura, Badajoz, Spain gave an exciting talk on “Relationship between pharmacogenetic traits and personality” with special focus on CYP2D6. Finally Ingolf Cascorbi from the Christian Albrechts University Kiel, Germany, reported on “Genetic causes of hypersensitivity to antipsychotics - the clozapine story”, outlining a multicenter study identifying markers in the HLA-DQB1 locus to be strongly linked with the risk of clozapine-induced agranulocytosis.

The session was co-chaired by Feyza Aynacioglu and Ingolf Cascorbi. We are grateful for the great help of the Turkish Association for Psychopharmacology to organize this exciting meeting.



The speakers at the IUPHAR-symposium "Pharmacogenomics of psychoactive drugs" held in Antalya

Plans for 2012:

It was agreed to have session co-organized by the IUPHAR Section of Pharmacogenetics on the occasion of the 2nd Latin-American Pharmacogenomics and Personalized Medicine Congress, 27-29 June 2012 Rio de Janeiro. This conference is essentially organized by Guilherme Kurtz-Suarez, Pharmacology Division, Instituto Nacional de Câncer, Brazil, who is a member of the section and represents the Brazilian Pharmacogenomics Network (Refargen). Further co-organizers are Mara Helena Hutz, Department of Genetics, Universidade Federal do Rio Grande do Sul, Brazil; Adrían Llerena, Universidad de Extremadura, Spain, who is a section member as well and Head of the Iberoamerican Network of Pharmacogenetics (Ribef), by Julie A Johnson and Jerry Lesko, both University of Florida, *Federico Goodsaid*, Vertex Pharmaceuticals, Washington, DC, by Howard Mcleod, University of South Carolina, USA, by Issam Zideh, CDER/FDA and George Patrinos, University of Patras, Greece.

This unique meeting offers broad opportunities of networking and consists also of an educative workshop for undergraduates in this rapidly emerging region of the world. The IUPHAR section will start with a keynote lecture "Pharmacogenomics and epigenomics for prediction of drug action and response. An update" given by Magnus Ingelman-Sundberg, Karolinska-Institutet Stockholm, Sweden. The symposium "Recent Progress in the Pharmacogenomics of Drug Transporters" will consist of lectures of Deanne Kroetz, Matthias Schwab, and Ingolf Cascorbi. The section is grateful to IUPHAR for financial support to realize this conference.

Plans for 2014

The IUPHAR section has proposed a workshop "Global PGx-based personalized medicine" at the IUPHAR 17th World Congress on Basic and Clinical Pharmacology that will take place in Cape Town, South Africa in 2014.

Ingolf Cascorbi, MD, PhD
Section Chair