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UNIVERSITAT DE BARCELONA

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## RESEARCH CONFERENCES

ESF-UB Conference in Biomedicine

# Pharmacogenetics and Pharmacogenomics

Hotel Eden Roc, Sant Feliu de Guixols • Spain  
15-20 June 2007

Chair: **Philippe H. Beaune**, INSERM U775, FR  
Co-Chair: **Michel Eichelbaum**, Dr. Margarete Fischer-Bosch-  
Institut für Klinische Pharmakologie, DE  
Vice-Chair: **Marçal Pastor Anglada**, University of  
Barcelona, ES

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# Final Programme

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## Friday 15 June

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Late afternoon / early evening	Registration at the ESF-RC desk
19.00	Welcome Drink
20.00	Dinner

## Saturday 16 June

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### Conference Opening – Plenary Lecture 1

Chair: Philippe Beaune, INSERM U775, FR

08.30-09.30

**Michel Eichelbaum**

Dr. Margarete Fischer-Bosch-Institut für Klinische Pharmakologie, Stuttgart, DE  
*Pharmacogenetics: where do we stand in 2007?*

### Session 1: Gene Variability & New Technology in Genotyping

Chair: Michel Eichelbaum, Dr. Margarete Fischer-Bosch-Institut für Klinische Pharmakologie, DE

09.30-10.00

**Roderic Guigó**

Center for Genomic Regulation, Barcelona, ES  
*The Complexity of Human Genes*

10.00-10.30

**Ann-Christine Syvänen**

Uppsala University, SE  
*Allelic imbalance in gene expression as a guide to cis-acting regulatory polymorphisms*

10.30-11.00

Coffee Break

11.00-11.30

**Stephan Buch**

University of Kiel, DE  
*Genome-wide association studies*

### Session 2: Data Analysis & Management, Biostatistics & Bioinformatics

Chair: Roderic Guigó, Center for Genomic Regulation, Barcelona, ES

11.30-12.00

**Tom Freeman**

University of Edinburgh, UK  
*Integration and Analysis of Omics Data in 3-Dimensional Network Graphs*

12.00-12.30

**Alison Motsinger**

North Carolina State University, Durham, US  
*The importance of Epistasis*

12.30-13.00

**Jaume Bertranpetit**

Universitat Pompeu Fabra, Barcelona, ES  
*Human genome diversity and implications for pharmacogenomics*

13.00

Lunch

14.30-16.30 Poster Session 1

16.30-17.00 Coffee Break

## Session 2: Data Analysis & Management, Biostatistics & Bioinformatics - continued

Chair: **Jaume Bertranpetit**, Universitat Pompeu Fabra, Barcelona, ES

17.00-17.15

**Paul Cizdziel** (short talk)

RIKEN Yokohama Institute, JP

*Mutation detection and SNP genotyping in 30 minutes; A novel isothermal amplification technology*

17.15-17.30

**Pinchas Akiva** (short talk)

Compugen, Tel Aviv, IL

*GeneVa, a novel platform for computational discovery and high throughput screening of genomic INDELS, discovers a potential diabetes type 2 susceptibility variation*

17.30-17.45

**Oksana Makeeva** (short talk)

Tomsk Research Institute of Medical Genetics of RAMSc, RU

*Global pharmacogenetics: clinically relevant variants of metabolizing enzymes capture the genetic substructure of Eurasian populations*

17.45-18.00

**James Scott** (short talk)

Imperial College, London, UK

*Whole genome association identifies novel and known DNA variants associated with component phenotypes of Metabolic Syndrome*

## Plenary Lecture 2

Chair: **Laurent Becquemont**, Unite de Recherche Clinique Paris-Sud Hôpital Bicêtre, FR

18.00-19.00

**Kevin Cheeseman**

AstraZeneca, Loughborough, UK

*Pharmacogenetics in the Pharmaceutical Industry*

19.00

Dinner

## Round Table 1: Implications of PG for Pharmaceutical Industry

Chair: **Kevin Cheeseman**, AstraZeneca, Loughborough, UK

20.45-21.05

**Klaus Lindpainter**

F. Hoffmann-La Roche Ltd, Basel, CH

*Tba*

21.05-21.25

**Chris Chamberlain**

Roche Products, Welwyn Garden City, UK

*Pharmacogenomics and the post marketing lifecycle*

21.25-22.00

Plenary Discussion

## Sunday 17 June

### Session 3: Scientific Bases of PG – 1. Metabolism

Chair: Philippe Beaune, INSERM U775, FR

- 09.00-09.45 Magnus Ingelman-Sundberg  
Karolinska Institute, Stockholm, SE  
*Genetic variability of cytochrome P450 enzymes and receptors*
- 09.45-10.15 Michael Coughtrie  
University of Dundee, UK  
*Pharmacogenetics of UDP-Glucuronosyltransferases*
- 10.15-10.30 Maria Gabriella Scordo (short talk)  
University of Uppsala, SE  
*Apo-E genotype and donepezil therapy clinical outcome in patients with Alzheimer's Disease*
- 10.30-11.00 Coffee Break

### Session 4: Scientific Bases of PG – 2. Transporters and Targets

Chair: Marçal Pastor Anglada, University of Barcelona, ES

- 11.00-11.30 Heyo Kroemer  
University of Greifswald, DE  
*Physiological and pharmacological role of transporters in the cardiovascular system*
- 11.30-12.00 Mikko Niemi  
University of Helsinki, FI  
*Role of OATP-transporters in the disposition of drugs*
- 12.00-12.30 Otto-Erich Brodde  
University of Essen Medical School, DE  
*Pharmacogenetics of beta-1 and beta-2 adrenoceptors*
- 12.30-12.45 Elise Andrews (short talk)  
Newcastle University, UK  
*Effects of flucloxacillin on CYP3A4 and drug transporter function and expression in cultured cells*
- 13.00 Lunch
- 14.30-16.00 Poster Session 2
- 16.00-16.30 Coffee Break
- 16.30-18.00 Poster Session 2 (continues)

### Plenary Lecture 3

Chair: Leif Bertilsson, Karolinska University Hospital, Stockholm, SE

- 18.00-19.00 Munir Pirmohamed  
The University of Liverpool, UK  
*Pharmacogenetics : present situation and perspectives on clinical applications*
- 19.00 Dinner

## Round Table 2: Clinical Applications of PG: Present Situation & Perspectives

Chair: Munir Pirmohamed, University of Liverpool, UK

- 21.00-21.15                    **Laurent Becquemont**  
Unite de Recherche Clinique Paris-Sud Hôpital Bicêtre, FR  
*The need for clinical trials*
- 21.15-21.30                    **Ann Daly**  
University of Newcastle, UK  
*Relationship between clinical phenotype and genotype: current perspectives*
- 21.30-21.45                    **Adrian Llerena**  
Universitat de Beira Interior, Covilhã, PT  
*CYP2D6 pheno and genotype in psychiatric patients*
- 21.45-22.15                    Plenary Discussion

### Monday 18 June

## Session 5: Clinical Applications of PG – 1

Chair: Munir Pirmohamed, University of Liverpool, UK

- 09.00-09.30                    **Pierre Laurent-Puig**  
INSERM U775, Paris, FR  
*Genetics and targeted therapies*
- 09.30-10.00                    **Colin Ross**  
University of British Columbia, CA  
*Pharmacogenomics of severe adverse drug reactions in children*
- 10.00-10.15                    **Melih Babaoglu** (short talk)  
Hacettepe University, Ankara, TR  
*Association of the cytochrome P450 1A2\*1F polymorphism with clozapine response in schizophrenic patients*
- 10.15-10.45                    Coffee Break

## Session 6: Clinical Applications of PG – 2

Chair: Magnus Ingelman-Sunberg, Karolinska Institute, Stockholm, SE

- 10.45-11.15                    **Leif Bertillon**  
Karolinska University Hospital, Stockholm, SE  
*Pharmacogenetics of depression and its treatment*
- 11.15-11.45                    **Adrian Llerena and Pedro Dorado**  
Extremadura University Hospital and Medical School, Badajoz, ES  
*Schizophrenia and PG of neuroleptic drugs*
- 11.45-12.15                    **Jules A. Desmeules**  
Geneva University Hospital, CH  
*PG of antalgics*
- 12.15-12.30                    **Eleni Aklillu** (short talk)  
Karolinska Institute, Stockholm, SE  
*A functional polymorphism in the monoamine oxidase A gene is associated with atypical features of patients with major depression and variation in CSF monoamine metabolite concentrations*

12.30-12.45	<b>Ana Alfirevic</b> (short talk) The University of Liverpool, UK <i>TNF, LTA, HSPA1L and HLA-DR Gene Polymorphisms in HIV positive patients with hypersensitivity to co-trimoxazole</i>
13.00	Lunch
14.30-16.00	Poster Session 3
16.00-16.30	Coffee Break
16.30-18.00	Poster Session 3 (continues)
18.00-19.00	Free time
19.30	Get-together & Conference Dinner

## Tuesday 19 June

### Session 7: Clinical Applications of PG – 3

Chair: **Ann Daly**, University of Newcastle, UK

08.30-09.00	<b>Marie-Anne Loriot</b> INSERM U775, Paris, FR <i>Pharmacogenetics and oral anticoagulants</i>
09.00-09.30	<b>Dany Anglicheau</b> INSERM U775, Paris, FR <i>Immunosuppression: current status and future challenges</i>
09.30-10.00	<b>Takahisa Furuta</b> Hamamatsu University, JP <i>Pharmacogenetic approaches in the treatment of peptic ulcer and GERD</i>
10.00-10.30	<b>Sophie Visvikis-Siest</b> INSERM U525, Nancy, FR <i>Genetic of cardiovascular diseases</i>
10.30-11.00	Coffee Break
11.00-11.15	<b>Anke-Hilse Maitland-Van Der Zee</b> Utrecht University, NL <i>Interactions between the Gly460Trp alpha-adducin gene variant and diuretics and the risk of myocardial infarction among treated hypertensive patients</i> (short talk)
11.15-11.30	<b>Ron Van Schaik</b> (short talk) Erasmus MC, Rotterdam, NL <i>Genetic polymorphisms in UGT1A9 explain part of the inter-individual variability in mycophenolate mofetil (MMF) pharmacokinetics in tacrolimus co-treated patients</i>

### Session 8: Beyond Chips & SNPs

Chair: **Heyo Kroemer**, University of Greifswald, DE

11.30-12.00	<b>Uwe Voelker</b> Ernst-Moritz-Arndt-University Greifswald, DE <i>Proteomics analysis of drug responses</i>
12.00-12.30	<b>Elaine Holmes</b> Imperial College London, UK <i>Metabolomics and systems biology</i>
13.00	Lunch

14.30-16.00 Poster Session 4  
16.00-16.30 Coffee Break

## Plenary Session

**Chairs:** Philippe Beaune, INSERM U775, FR, Marçal Pastor Anglada, University of Barcelona, ES, Carole Moquin-Patthey, European Science Foundation, Strasbourg, FR

16.30-17.30 **Business Meeting – Part 1**  
*Identification of the focus and topics of the next conference. Presentation of the candidate chairs*

## Round Table 3: Implications of PG for Pharmaceutical Industry and Agencies

**Chair:** Laurent Becquemont, Unite de Recherche Clinique Paris-Sud Hôpital Bicêtre, FR

17.30-17.50 **Eleni Zika**  
IPTS Institute for Prospective Technological Studies, Sevilla, ES  
*Socio-economic impact of pharmacogenetics*

17.50-18.10 **James Creeden**  
F. Hoffmann-La Roche Ltd, Basel, CH  
*Health Economics of Pharmacogenetics and Pharmacogenomics*

18.10-18.45 Plenary Discussion

18.45-19.00 Ballot vote to elect next chair

19.00 Dinner

## Conclusions

**Chairs:** Philippe Beaune, INSERM U775, FR, Marçal Pastor Anglada, University of Barcelona, ES, Carole Moquin-Patthey, European Science Foundation, Strasbourg, FR

20.30-21.00 **Philippe Beaune**  
INSERM U775, FR  
*Conclusions*

21.00-22.00 **Business Meeting – Part 2**  
*Results of the elections, selection of the organising committee, suggestions for the next conference*

## Wednesday 20 June

08.30-09.30 Breakfast & Departure

## Abstracts, Posters & Short Oral Presentations

There will be no short talks other than those listed in the programme. All abstracts are accepted as posters. Posters will be displayed for the whole duration of the conference.