

Oulu Symposium on Drug Metabolism: *Xenobiotics - from evolution to medicines*

Apr. 22nd – 23rd 2010

University of Oulu, Faculty of Medicine, lecture hall 101A, Address Aapistie 5A, Oulu, Finland

The symposium is dedicated to Prof. Olavi Pelkonen in recognition of his achievements and contributions to the advancement of the research on drug metabolism.

Program

Thursday 22.4.2010

8.50 – 9.00 *Opening words*

Session 1 *Evolution, genetics and regulation of drug metabolising enzymes*

Chairperson Dr. Moshe Finel, University of Helsinki

9.00 – 9.45 Prof. Magnus Ingelman-Sundberg, Karolinska Institutet, Stockholm, Sweden:
Evolution and genetics of cytochrome P450 enzymes

9.45 – 10.15 Prof. Paavo Honkakoski, University of Kuopio:
Nuclear receptors as xenosensors

10.15 – 10.45 Prof. Jukka Hakkola, University of Oulu:
Role of redox sensitive transcription factor Nrf2 in regulation of drug metabolism

10.15 – 11.15 Coffee break

11.15 – 11.45 Prof. Matti Lang, National Research Centre for Environmental Toxicology,
Brisbane, Australia:
The unifying theory of gene expression; an integrated multistage process

11.45 – 12.15 Prof. Hannu Raunio, University of Kuopio:
Modelling of cytochrome P450 active site –CYP2A6 as an example

12.15 – 13.15 Lunch

Session 2 *Role of drug metabolising enzymes in toxicology, environment and risk assessment*

Chairperson Prof Arja Rautio, University of Oulu

13.15 – 14.00 Prof. Daniel W Nebert, University of Cincinnati Medical Center, Cincinnati, OH,
USA:
Role of P450 in endogenous signalling pathways and environmental carcinogenesis

14.00 – 14.30 Prof. Markku Pasanen, University of Kuopio:
Environmental chemical stress, maternal diseases and expression of human placental xenobiotic and steroid metabolizing enzymes

14.30 – 15.00 Prof. Kirsi Vähäkangas, University of Kuopio:
Placental drug transporters in fetal exposure

15.00 – 15.30 Coffee break

15.30 – 16.15 Prof. Alan R Boobis, Imperial College London, London, UK:
Risk assessment of exposure to environmental chemicals

16.15 – 16.45 Prof. Jorma Ahokas, RMIT University, Melbourne, Australia:
CYP in environmental toxicology

19.00 -

Banquet

Prof. Olavi Pelkonen, University of Oulu:

Perspectives to the past, present and future of the research on drug metabolism

Friday 23.4.2010

Session 3 *Drug metabolism and transport in drug development and towards individualized therapy*

Chairperson Dr. Miia Turpeinen, University of Oulu

- 9.00 – 9.45 Prof. Tommy B. Andersson, AstraZeneca R&D, Mölndal, Sweden:
Advances in in vitro ADME methods to bridge in vitro to in vivo extrapolations
- 9.45 – 10.15 Prof. Amin Rostami-Hodjegan, University of Manchester, Manchester, UK:
In vitro-in vivo extrapolation of ADME in Drug Development
- 10.15 – 10.45 Dr. Jarmo S. Salonen, Orion Corporation Orion Pharma, Finland:
Species differences in metabolism: Impact on the development of imidazole drugs
- 10.45 – 11.15 Coffee break
- 11.15 – 12.00 Prof. Matthias Schwab, Dr. Margarete Fischer-Bosch Institute of Clinical
Pharmacology, Stuttgart, Germany:
*Individualized drug therapy: the impact of pharmacogenomics for drug metabolism
and transport*
- 12.00 – 12.30 Prof. Mikko Niemi, University of Helsinki:
OATP transporter polymorphisms and drug treatment
- Closing

Organizers

University of Oulu, Institute of Biomedicine, Department of Pharmacology and Toxicology
Finnish Pharmacological Society
Finnish Graduate School in Toxicology
Drug Discovery Graduate School
Graduate School in Clinical Drug Research

Program updates and Registration: <http://toxgs.utu.fi>

(Registration open 1.2. – 15.3.2010)

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