Wednesday May 30th 2018

Welcome and opening remarks 09.30
Chairs: Tore B. Stage, University of Southern Denmark and Kim Brøsen, University of Southern Denmark

Plenary 1 -Novel methods for assessing drug toxicity 09.45
Chair: Tore B. Stage, University of Southern Denmark

iPSC-derived sensory neurons to assess chemotherapy-induced sensory neuropathies
Deanna L. Kroetz, UCSF

Novel in vitro systems for better prediction of drug metabolism and hepatotoxicity
Magnus Ingelman-Sundberg, Karolinska Institutet

Coffee 11.15

Keynote 1 - Pharmacogenetics of glucose-lowering drugs 11.45
Chair: Kim Brøsen, University of Southern Denmark

Pharmacogenetics of glucose-lowering drugs
Ewan Pearson, Dundee University

Lunch (possible industry-sponsored seminar) 12.45

Plenary 2 - Personalized medicine in oncology – success stories from the real World 13.45
Chair: Tore B. Stage, University of Southern Denmark

Phenotyping and genotyping in childhood leukemia - precision medicine in an international setting
Kjeld Schmiegelow, Copenhagen University Hospital

Parallel 1 - Next generation sequencing and rare variants in personalized medicine
Chair: Magnus Ingelman-Sundberg, Karolinska Institutet

Integrating rare genetic variability into preemptive pharmacogenomic advice
Volker Lauschke, Karolinska Institutet

Twin studies and systems pharmacology as innovative tools for clinical pharmacokinetics
Matthias Schwab, Dr. Margarete Fischer-Bosch-Institute of Clinical Pharmacology Stuttgart and University of Tuebingen, Germany

Parallel 2 - New aspects of P450 variability 14.45
Chair: Janne T. Backman, University of Helsinki

CYP2D6 pharmacogenetics: from a scientific cornucopia towards routine clinical practice
Andrea Gaedigk, Children's Mercy Kansas City

Clinical significance of cytochrome P450 mediated drug interactions
Kim Brøsen, University of Southern Denmark

Cytochrome P450 phenotyping and the microdosing approach
Gerd Mikus, Heidelberg University Hospital

Coffee and poster walks 16.45

Beer tasting (additional registration required) 20.00

Thursday May 31st 2018

Plenary 2 - Pharmacoepigenetics and biomarkers 09.00

Chairs: Ingolf Cascorbi, University of Kiel and Magnus Ingelman-Sundberg, Karolinska Institutet

miRNAs as mediators of drug resistance
Ingolf Cascorbi, University of Kiel

DNA Methylation of ADME Genes: Clinical implications
Pascale Fisel, Dr. Margarete Fischer-Bosch-Institute of Clinical Pharmacology Stuttgart and University of Tuebingen, Germany

Diagnostic and prognostic epigenetic biomarkers in cancer.
Carmen Jerónimo, University of Porto

Coffee 11.00

Parallel 3 - Role of the gut in ADME
Chairs: Mette Marie Hougaard Christensen, Odense University Hospital and Troels Bergmann, Odense University Hospital

Gut microbiome interactions with drug metabolism, efficacy, and toxicity
Ian Wilson, Imperial College London

Gut wall metabolism
Oliver Hatley, Certara

Parallel 4 - Personalized medicine: Cardiovascular disease 11.30
Chair: Niels Jessen, Aarhus Univesity

Protein biomarkers for cardiovascular conditions - perspectives for personalized medicine?
Lars M. Rasmussen, Odense University Hospital

Inherited cardiac diseases and personalized medicine
Henning Bundgaard, Copenhagen University Hospital

Lunch 13.30

Key note 2 - The role of drug transporters in chemotherapy-induced toxicity 14.30

Chair: Tore B. Stage, University of Southern Denmark

The role of drug transporters in chemotherapy-induced toxicity
Alex Sparreboom, Ohio University

Poster viewing 15.30

Conference dinner - Hotel Storebælt (additional registration required) 18.30

Friday June 1st 2018

Plenary 3 - Drug transporters 09.00
Chair: Mikko Niemi, University of Helsinki

Assessing OCT-function in vivo using 11C-labeled metformin
Niels Jessen, Aarhus University

Pharmacogenomics of transporters; OATP1B1, BCRP, rare variants
Mikko Niemi, University of Helsinki

Coffee 11.00

Parallel 5 - Using big data to develop personalized medicine
Chairs: Kim Brøsen, University of Southern Denmark and Henrik Berg Rasmussen, University of Copenhagen

Personalized Medicine and big data in Immune Deficiency
Jens Lundgren, University of Copenhagen

Analyzing drug response data from medical records
Søren Brunak, University of Copenhagen

Danish National Health Registries and Pharmacogenetics in Psychiatry
Christiane Gasse, Aarhus University

Parallel 6 - Pharmacogenetics and adverse drug reactions 11.30
Chair: Per Damkier, Odense University Hospital

Challenges to the clinical utility of PGx in the prevention of adverse drug reactions
Henk-Jan Guchelaar, Leiden University Medical Center

Advances in PGx of adverse drug reactions
Munir Pirmohamed, University of Liverpool

The genetic basis of drug-induced liver injury
Ann Daly, University of Newcastle

Closing remarks and awards 13.30

Lunch – grab and go 14.00