



Final Programme¹,
eSI Meeting, Sept. 29-30, 2006, Alicante, Spain

Thursday September 28, 2006 Arrival

19:00-20:00 Registration

20:00-21:00 Get together

21:00-22.30 DINNER

FRIDAY September 29, 2006

08:30-09:00 **WELCOME** and aim of meeting: **Prof. Vera Rogiers** (Chair *ecopa*)

TOPIC 1: Experimental and Basic Approaches in Pharmacology/Toxicology

Moderator: Prof. José Castell (Vice president *ecopa*)

09:00-9:40 “Exploring stem cells”

Prof. Malcolm Alison (Centre for Diabetes and Metabolic Medicine, London, UK)

09:40-9:52 “Production of functional hepatocytes from postnatal progenitor cells”

Drs. Sarah Snykers (Vrije Universiteit Brussel, Brussels, BE)

9:52-10:07 “Pancreatic Cancer Stem Cells: An *In Vitro* Study “

Drs. Naomi Guppy (Centre for Diabetes and Metabolic Medicine, London, UK)

10:07-10:19 “Human Mesenchymal Stem cells from adipose tissue: Differentiation into Hepatic lineage “

Drs. Ana Bonora Centelles (University of Valencia, Valencia, ES)

10:19-10:34 Discussions

10:34-10:49 COFFEE BREAK

10:49-11:29 “Cell-based microarrays: current progress, future prospects”

Dr. Tom Freeman (The Scottish Centre for Genomic Technology and Informatics, Edinburgh, UK)

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11:29-11:45 “Omics technology in safety assessment”

Dr. Remi Bars (Bayer Crop Science, Sophia Antipolis, FR)

11:45-12:00 “RNAi optimization for drug discovery”

Dr. Bettina Hädrich (Qiagen, Hilden, DE)

12:00-12:15 “Identification of safety biomarkers using proteomics”

Dr. Michaela Kroeger (Merck KGa A, Darmstadt, DE)

12:15-12:27 “Characterization of a renal cell model by gene expression analysis”

Drs. Christina Weiland (Bayer HealthCare AG, Wuppertal, DE)

12:27-13:00 Discussions

13:00-15:30 LUNCH and free time.

TOPIC 2: New Approaches in Biologicals Production

Moderator: Dr. Bernward Garthoff (Treasurer *ecopa*)

15:30-16:10 “*In vitro* monitoring of vaccine antigen quality “

Prof. Coenraad Hendriksen (Netherlands Vaccine Institute, Bilthoven, NL)

16:10-16:35 “Production of antigens and antibodies in plants: alternative technology? “

Dr. George Lomonosoff (John Innes Centre, Norwich, UK)

16:35-16:55 COFFEE BREAK

16:55-17:10 “HuCAL(r) (Human Combinatorial Antibody Library): Novel technology for the *in vitro* generation and profiling of human antibodies for therapeutic and research applications”

Dr. Stefan Steidl (Morphosys AG, Martinsried, DE)

TOPIC 3: Miscellaneous Part 1: Neurotoxicity Testing

Moderator: Prof. Vera Rogiers (Chair *ecopa*)

17:10-17:22 “Electrophysiological recording of three-dimensional aggregating brain cell cultures on multi-electrode arrays for the detection of acute neurotoxicity”

Drs. Erwin Van Vliet (ECVAM, Ispra, IT)

17:22-17:24 “Chromaffin cells in culture as *in vitro* alternative model to study the organophosphorus induced delayed neuropathy”

Drs. Encarna Quesada (University Miguel Hernández, Elche, ES)

17:25-17:45 Discussions

20:30 DINNER

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SATURDAY, September 30, 2006

TOPIC 4: Membrane Permeability and Drug Transport

Moderator: Prof. José Castell (Vice president *ecopa*)

9:00-9:40 “The role of drug transport proteins in drug absorption and tissue distribution”
Prof. Per Artursson (Uppsala University, Uppsala, SE)

9:40-10:05 “Drug transport - blood brain barrier”
Prof. Roméo Cecchelli (Université d'Artois, Lens Cedex, FR)

10:05-10:30 “Cell culture models of the ocular barriers”
Prof. Arto Urtti (University of Helsinki, Helsinki, FI)

10:30-11:00 Discussions

11:00-11:20 COFFEE BREAK

11:20-11:35 “Development of a novel multicellular 3-dimensional blood brain barrier *in vitro* model”
Dr. Omaolara Ogunshola (University of Zürich, Zürich, CH)

11:35-11:50 “Establishment and validation of a Choroid Plexus Model to study drug transport”
Dr. Anne Mahringer (University of Heidelberg, Heidelberg, DE)

11:50-12:05 “The computational physical chemistry methods as predictors of pharmacokinetics (ie. one way to reduce animal experimentation)”
Dr. Marjo Yliperttula (University of Helsinki, Helsinki, FI)

12:05-12:17 “Expression of cell cycle regulatory genes in the proliferation, cell cycle arrest and terminal differentiation of CACO-2 cells.”
Dr. Bruno Leoni (Istituto di Neurobiologia e Medicina Molecolare, Roma, IT)

12:17-12:29 “IFN α induced proximal tubular cell toxicity involves an apoptotic death pathway.”
Drs. Malloth ((Innsbruck Medical University, Innsbruck, AU)

12:30-13:00 Discussions

13:00-15:30 LUNCH and free time

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TOPIC 5: New Test Basis in Experimental Research and Regulatory Screens

Moderator: Dr. Bernward Garthoff (Treasurer *ecopa*)

15:30-15:55 “Structure and function of new drug discovery targets”

Prof. Leist (University of Konstanz, Konstanz, DE)

15:55-16:20 “Potentially novel technologies as test basis for new regulatory screens: lessons to learn from ICH approaches”

Dr. Klaus Olejniczak (Federal Institute for Drugs and Medical devices, Bonn, DE)

16:20-16:32 “*In vitro* screening of azole fungicides for antiandrogenic effects – comparison with *in vivo* effects” **M.Sc. Camilla Taxvig** (Danish Institute for Food and Veterinary Research, Soborg, DK)

16:32-16:44 “Development of a custom-made microarray as an alternative screening tool for endocrine disruptors”

Drs. Caroline Vanparys (University of Antwerp, Antwerp, BE)

16:44-17:05 Discussions

17:05-17:25 COFFEE BREAK

TOPIC 6: Miscellaneous Part 2: *in vitro* Pulmonary Research

Moderator: Prof. Vera Rogiers (Chair *ecopa*)

17:25-17:37 “Development of an *in vitro* model for pulmonary translocation of nanoparticles”

Drs. Jorina Geys (Katholieke Universiteit Leuven, Leuven, BE)

17:37-17:49 “A Novel *in vitro* Cell Model of Muco-ciliated Human Airway Epithelium for Long Term Toxicity Testing”

Dr. Wiszniewski (Epithelix Sarl, Plan-les Ouates, CH)

17:49-18:01 “*In vitro* study of the role of urban PM_{2.5} components: expression of EGFR ligands by air way epithelial cells”

Drs. Rumelhard (Université Paris 7 Denis Diderot, Paris Cedex, FR)

18:01-18:13 “Trans-Epithelial Electrical Resistance (TEER) monitoring in perfusion culture - A reliable indicator of monolayer integrity and barrier function”

Dr. Lechleitner (Innsbruck Medical University, AU)

18:13-18:25 “*In vitro* pulmonary alveolar type II cell models – not an easy task!”

Drs. Signorelli (Innsbruck Medical University, Innsbruck AU)

18:25-19:00 Discussions

20:30 DINNER