

DRAFT PROGRAMME eSI

A JOINT INITIATIVE OF
ecopa and *epaa*

**“New Avenues to research and development
including safety testing of pharmaceuticals
and cosmetics”**

Friday 17/10/2008

**TOPIC 1: NOVEL APPROACHES IN REGARD TO RESEARCH AND SAFETY
TESTING OF BIO-/PHARMACEUTICALS RESP. COSMETICS**

Session 1:
PHARMACEUTICALS

- 09h00 – 09h40 Functional Hepa RG cells: a breakthrough in 3R-research?
Prof. André Guillouzo, Université de Rennes, F (c)
- 09h40 – 09h55 Use of gene expression patterns in cultured hepatocytes to classify
carcinogens
Drs. Markus Schug, University of Dortmund (IfaDo), DE (c)
- 09h55 – 10h10 TSA-stabilised hepatocytes to study genotoxic and non-genotoxic
carcinogens
Drs. Tatyana Doktorova, Vrije Universiteit Brussel, BE (c)
- 10h10 – 10h25 Cytotoxic and genotoxic effects of two heterocyclic amines in
functional hepatoma HepaRG cells
Dr. Julie Dumont, Université de Rennes, F (c)
- 10h25 – 10h40 Discussion with speakers
- 10h40 – 11h00 Coffee break

DERMATO - COSMETICS

- 11h00 – 11h40 Markers of proliferation and differentiation in human keratinocyte
models
Prof. Yves Poumay, University of Namur, BE (c)
- 11h40 – 11h55 miRNA as novel regulators in skin research
Dr. Andor Pivarcsi, Karolinska Institute, SW (c)

11h55 – 12h10 Use of gene silencing in skin models
Dr. Michael Mildner, University of Vienna, AT (c)

NANOPARTICLES

12h10 – 12h25 Safety aspects of skin penetration of nanoparticles in cosmetics/pharmaceuticals
Drs. Alexa Patzelt, Charité University, Berlin, DE (c)

12h25 – 12h40 Nanoparticle induced pulmonary toxicity
Dr. Susanne Boehn, BASF Laboratory of Alternative Methods Ludwigshafen, DE (c)

12h40 – 12h55 Toxicological studies of poly (anhydride) nanoparticles for oral drug delivery
Drs. Patricia Ojer Ojer, University of Navarra, ES (c)

12h55 – 13h10 In vitro techniques and testing the ecotoxicity of nanoparticles
Dr. Richard D. Handy, University of Plymouth, UK (c)

13h10 – 13h25 Discussion with speakers

13h25 – 16h00 LUNCH and free time

TOPIC 2: IMMUNOTOXICOLOGY OF PHARMACEUTICALS / DERMATO-COSMETICS

16h00 – 16h40 Important issues in immunotoxicity testing of pharmaceuticals
Dr. Marc Pallardy, INSERM, University Paris Sud, F (c)

16h40 – 16h55 Development of *in vitro* strategies for studying T-cell mediated immunological reactions to drugs
Dr. Enrique Gomez, University of Malaga, ES (c)

16h55 – 17h35 New ideas in basic research in allergic skin diseases
Dr. Reinhard Wanner, Institute of Molecular Biology and Bioinformatics, Charité, Berlin, Germany (c)

17h35 – 17h50 *In silico* methods for the prediction of contact dermatitis
Dr. Mustapha Kireche, Clinique Dermatologique CHU, Strasbourg, F (nc)

17h50 – 18h05 Dendritic cell models
Dr. Françoise Rousset, INSERM, University Paris Sud, F (nc)

- 18h05 – 18h20 *In vitro* differentiation of skin sensitizers by cell signaling pathways
Dr. Lydia-Mareen Koeper, Bayer HealthCare AG, DE (c)
- 18h20 – 18h35 Identification of cell responses induced by a sensitizer in a reconstructed human epidermis
Drs. Aurélie Frankart, University of Namur, BE (c)
- 20h30 DINNER

Saturday 18/10/2008

TOPIC 1: NOVEL APPROACHES IN REGARD TO RESEARCH AND SAFETY TESTING OF BIO-/PHARMACEUTICALS RESP. COSMETICS

Session 2: BIOTECH PRODUCTS

- 09h00 – 09h40 Biotech - What's in the pipeline?
Prof. Daan Crommelin, University of Utrecht, NL (c)
- 09h40 – 09h55 MicroRNAs as targets for engineering of CHO cell factories
Dr. Dethardt Müller, Universität für Bodenkultur Wien, At (nc)
- 09h55 – 10h10 A suitable delivery system is key in the concept of siRNA - medicated treatment
Dr. Roosmarijn Vandenbroucke, University of Ghent, BE (c)
- 10h10 – 10h25 Discussion with speakers
- 10h25 – 10h45 Coffee break

TOPIC 3: RESEARCH / DEVELOPMENT / 3R-ALTERNATIVES

- 10h45 – 11h25 Imaging biomarkers *in vivo* / *in vitro*
Prof. Tony Lahoutte, Vrije Universiteit Brussel, BE (c)
- 11h25 – 11h40 Non-contact laser capture microdissection: an alternative method in live cell sampling
Dr. Renate Burgemeister, Carl Zeiss MicroImaging, Bernried, DE (c)
- 11h40 – 11h55 COMICS: Developing high throughput comet assays for DNA damage and DNA repair
Dr. Amaya Azqueta Oscoz, University of Oslo, ES & NO (c)

11h55 – 12h10 Discussions with speakers

12h10 – 16h00 LUNCH and free time

TOPIC 4: RESEARCH / EFFICACY TESTING / 3R-ALTERNATIVES

16h00 – 16h40 Use of flow-based assays to monitor drugs with antithrombotic, anticoagulant or anti-inflammatory potential
Prof. Johan W.M. Heemskerk, University of Maastricht, NL (c)

16h40 – 16h55 Confrontation cultures of embryonic stem cell - derived embryoid bodies and multicellular tumor spheroids: a novel *in vitro* model for the study of tumor-induced angiogenesis
Drs. Nada Milosevic, Justus Liebig University, Giesen, DE (c)

16h55 – 17h10 Cancer associated fibroblasts influence epidermal morphogenesis and invasion in reconstructed 3D-culture models of human carcinoma
Drs. S. Commandeur, University of Leiden, NL (c)

17h10 – 17h25 Discussion with speakers

TOPIC 5: MISCELLANEOUS

17h25 – 17h40 Evaluation of toxicological effects of POPs using primary fish cell cultures
Drs. Liv Søfteland, The National Institute of Nutrition and Seafood Research NO (c)

17h40 – 17h55 1 young speaker

17h55 - 18h10 A cell-based assay for the detection of a potent algal neurotoxin in biological matrices
Dr. Mirella Belloci, University of Modena, I (c)

18h25 – 19h00 Discussion with speakers and Round Table: "From successful research to regulatory implementation: hurdles for alternative methods and the validation necessity"

20h30 DINNER