Monday 16th, September 2019

11:00-11:30 Registration and opening of the meeting

CHEMICAL ALLERGY SESSION 1
Chairpersons: Unni Cecilie NYGAARD and Claudio Colosio

11:30-11:50
Effect of pesticide exposure on immune parameters in agricultural workers: the twenty years experience at the international center for rural health
Claudio COLOSIO*, Emanuela CORSINI, Stefan MANDIC-RAJCEVIC
International Centre for Rural Health of the SS. Paolo and Carlo Hospitals, Milan, Italy

11:50-12:10
Investigation on the possible role of microRNA in the regulation of chemical allergen potency
Valentina GALBIATI*, Martina IULINI, Riccardo COVELLI, Emanuela CORSINI
ESP, Università degli Studi di Milano, Milan, Italy

12:10-12:30
Understanding Allergen potency: role of protein kinase C activation in the vigor of dendritic cell activation
Eleonora SANGALLI*, Valentina, GALBIATI, Emanuela CORSINI
ESP, Università degli Studi di Milano, Milan, Italy

LUNCH (12:30-14:00)

CHEMICAL ALLERGY SESSION 2
Chairpersons: Marc Pallardy and Sue Gibbs

14:00-14:30 Keynote Lecture
The contribution of tissue resident memory T cells in allergic contact dermatitis
Marc Vocanson
Centre International de Recherche en Infectiologie, INSERM U1111, Lyon, France
14:30-14:50
**Influence of Streptococcus mitis on host response to metals (via TLRs) in reconstructed human skin and mucosa**
Lin SHANG, Dongmei DENG, Sanne ROFFEL, Wim CRIELAARD, Sue GIBBS*
Department of Molecular Cell Biology and Immunology Amsterdam UMC, Vrije Universiteit Amsterdam, The Netherlands. Department of Oral Cell Biology, Academic Centre for Dentistry (ACTA), University of Amsterdam and Vrije Universiteit Amsterdam, The Netherlands

14:50-15:10
**The THP-1 cell toolbox – a new concept integrating the key events of skin sensitization**
Elodie CLOUET, Rami BECHARA, Chloé RAFFALLI, Marie-Hélène DAMIENS, Hervé GROUX, Marc PALLARDY, Pierre-Jacques FERRET, Saadia KERDINE-RÖMER*
Faculté de Pharmacie, Université Paris Sud, Châtenay-Malabry, France

15:10-15:30
**Modified hCLAT by qRT-PCR: reference chemical results**
Marisa MELONI, Coralie DUMONT, Barbara DE SERVI, Laura CERIOTTI*

15:30-16:00 COFFEE BREAK

16:00-16:20
**Differentiation of keratinocytes in response to multi-exposure of a cosmetic sensitizer in a reconstructed epidermis**
Romain VALLION*, Chloé RAFFALLI, Agnieszka JARACZ-ROS, Carmen GALLEGO, Marie-Hélène DAMIENS, Françoise GAUDIN, Claudine DELOMENIE, Pierre-Jacques FERRET, Géraldine SCHLECHT-LOUF, Marc PALLARDY, Françoise BACHELERIE, Saadia KERDINE-RÖMER*
Faculté de Pharmacie, Université Paris Sud, Châtenay-Malabry, France

16:20-16:40
**Evaluation of skin sensitization potential of different chemicals using in vitro reconstructed human epidermal model EpiDerm and interleukin-18 (IL-18)**
Silvia LETASIOVA*, Valentina GALBIATI, Emanuela CORSINI, Helena KANDAROVA
MatTek In Vitro Life Science Laboratories, Bratislava, Slovakia

16:40-17:00
**Permanent hair dyes activate skin irritation pathway while isolated ingredients activate skin sensitizer pathway in reconstructed human skin with integrated Langerhans Cells**
Thalita B. ZANONI; Sander SPIEKSTRA*; Angela PAPALE; Erica A. DE OLIVEIRA, Silvia B. de MORAES BARROS; Silvia S. MARIA-ENGLER, Sue GIBBS
Department of Molecular Cell Biology and Immunology Amsterdam UMC, Vrije Universiteit Amsterdam, The Netherlands

17:00-17:20
**Next Generation Risk Assessment (NGRA) for Skin Sensitisation: Consumer Product Case Studies**
Georgia REYNOLDS*, Joe REYNOLDS, Nicola GILMOUR, Maria BALTAZAR, Sandrine SPRIGGS, Julia HEAD, Sara LEVORATO, Evita VANDENBOSSCHE, Nora APTULA, Richard CUBBERLEY, David VILUMBRALES, Cameron MACKAY, Gavin MAXWELL
Unilever, SEAC, Colworth Science Park, Sharnbrook, Bedfordshire, UK
Applying mathematical tools to assess the predictivity of defined approaches for skin sensitisation assessment
Janine EZENDAM*, Tom ALDENBERG, Emiel RORIJERIVM, Bilthoven, The Netherlands

17:40-18:00
Use of a high-dimensional cell cytometry (CyTOF) approach in immunotoxicology: Immune cell profiles associated with exposure to phthalate exposure
Unni Cecilie NYGAARD*, Emilie STEINBAKK ULRIKSEN, Friederike SONNET, Hege HJERTHOLM, Trine HUSØY, Hubert DIRVENNorwegian Institute of Public Health, Division of Infection Control and Environmental Health, Oslo, Norway

18:30 HAPPY HOURS
Il Piccolo Bistrò
Piazza S. Nazaro in Brolo, 3, 20122 Milano MI
Tuesday 17th, September 2019

OUT OF THE BOX
Chairpersons: Barbara Viviani and Francesca Caloni

9:00-9:20
**Role of IL-1β in neurotoxic signalling in the developing hippocampus**
Barbara Viviani, Melania SERAFINI
DISFEB, Università degli Studi di Milano, Milan, Italy

9:20-9:40
**Sequential link between the neuronal death and high glucose-oligomeric amyloid beta toxicities**
Ayse Basak ENGIN*, Evren Doruk ENGIN, Ozlem GULBAHAR, Arzu ARAL, Atilla ENGIN
Gazi University, Faculty of Pharmacy, Department of Toxicology, Ankara, Turkey

9:40-10:00
**A 3D clinical-relevant neuroblastoma model as in vitro platform for analyzing susceptibility to immunotherapies**
Alessandra MARRELLA*, A. DONDERO, M. AIELLO, R. CASTRICONI, C. BOTTINO, S. SCAGLIONE
CNR, Genoa, Italy

10:00-10:20
**Effects of 1,4-Dinitrobenzene exposure on mitochondrial membrane potential, tight junction structure and expression of secretory function in TM4 Sertoli cells**
Janet OLUGBODI*, Mary OLALEYE, Afolabi AKINMOLADUN
Department of biochemistry, Bingham university, Kodope, Nigeria

10:20-11:00 COFFEE BREAK

11:00-11:20
**Natural Toxins: in vitro species-specific integrated approach**
Francesca CALONI, LJ SPICER, A BERTERO
ESP, Università degli Studi di Milano, Milan, Italy

11:20-11:40
**Enniatin B1: in vitro effects on human and species-specific intestinal barriers**
Alessia BERTERO*, E TORRI, G RANALDI, S FERRUZZA, Y SAMBUY, F CALONI
ESP, Università degli Studi di Milano, Milan, Italy

**DRUG IMMUNOTOXICITY**
Chairpersons: Giuseppe Nocentini and Janine Ezendam

11:40-12:10
**Mechanism of allergy to drugs: the role of T-cell repertoire**
Marc PALLARDY*, Rami BECHARA, Alexia FERAY
Faculté de Pharmacie, Université Paris Sud, Châtenay-Malabry, France
12:10-12:30
*Study of the molecular mechanisms for beta lactam allergy*
Alexia FERAY*, Marc PALLARDY
Faculté de Pharmacie, Université Paris Sud, Châtenay-Malabry, France

LUNCH (12:30-14:00)

14:00-14:30 Keynote Lecture
*Antibodies modulating the immune response to cancers: mechanisms and potential adverse effects*
Giuseppe NOCENTINI
Università di Perugia, Perugia, Italy

IMMUNOMODULATION
Chairpersons: Charlotte ESSER and Valentina GALBIATI

14:30-14:50
*Skin microbiome in physiological and pathological conditions*
Daniela PINTO*
Giuliani S.p.A., Milan, Italy

14:50-15:10
Charlotte ESSER*
IUF, Düsseldorf, Germany

15:10-15:30
*Evaluation of Rack1 as a marker in assessing the effect of EDC on the immune system function*
Maša KENDA*, Valentina GALBIATI, Emanuela CORSINI, Marija SOLLNER DOLENC
Faculty of Pharmacy, University of Ljubljana, Ljubljana, Slovenia

15:30-15:40
*Immunomodulatory effects of the herbicide glyphosate in humans: in vivo and in vitro exposure*
Ambra MADDALON*, Claudio COLOSIO, Valentina GALBIATI, Stefan MANDIC-RAJCEVIC, Emanuela CORSINI
ESP, Università degli Studi di Milano, Milan, Italy

15:40-16:00
*The future on non-animal models in biomedical research: selection criteria and preliminary results*
Laura GRIBALDO*
EUR-ECVAM, JRC, Ispra, Italy

CLOSE OF THE MEETING

*The Local Organizers sincerely thank the sponsors who made the organization of this event possible. A great thank to EUROTOX and Giuliani S.p.A, and to the Università degli Studi di Milano for the beautiful spaces made available.*