

9<sup>th</sup> meeting of the Immunotoxicology and Chemical Allergy Speciality Section (ITCASS)



in collaboration with the Italian Society of Toxicology SITOX

SALA NAPOLEONICA – UNIVERSITA' DEGLI STUDI DI MILANO  
Milan, September 16-17<sup>th</sup>, 2019

**Monday 16<sup>th</sup>, 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; Silvy 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

17:20-17:40

**Applying mathematical tools to assess the predictivity of defined approaches for skin sensitisation assessment**

Janine EZENDAM\*, Tom ALDENBERG, Emiel RORIJE  
RIVM, 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 DIRVEN  
Norwegian 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**

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**Tuesday 17th, September 2019**

**OUT OF THE BOX**

Chairpersons: Barbara Viviani and Francesca Caloni

9:00-9:20

**Role of IL-1 $\beta$  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\*

EURL-ECVAM, JRC, Ispra, Italy

**CLOSE OF THE MEETING**

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*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.*