28th ERGECD– *Final Program*

November 7 – 9, 2018 at Coty, Berliner Allee 65, Darmstadt, Germany

Wednesday, 7th November 2018

17.30-19.30 **Get together**

Thursday, 8th November 2018

8.45 to approx.12.45 Morning session

Welcome

Isabelle Hansenne (Morris Plains, US); Peter Coles (Darmstadt, DE)

I. Skin sensitization risk assessment

a) *Non-animal concepts*

Chair: David Basketter

Andreas Natsch (Dübendorf, CH)
Quantitative risk assessment without animal testing - a scheme for fragrance molecules supported by case studies

Donna Macmillan (Leeds, UK)
A defined approach for skin sensitisation hazard and potency based on the guided integration of in silico, in chemico and in vitro data using exclusion criteria

Annette Mehling (Düsseldorf, DE)
Evaluation of 3D skin model-based assays using difficult to test substances: an EPAA multi-sector project

Hideyuki Mizumachi (Tochigi, JP)
Evaluation of EpiSensA for identifying skin sensitization potential and potency using 126 chemicals

Petra Kern (Brussels, BE)
Derivation of skin sensitization potency using the Bayesian Net Integrated Testing Strategy

Gavin Maxwell (Sharnbrook, UK)
Probabilistic prediction of human skin sensitiser potency for use in next generation risk assessment

David W Roberts (Liverpool, UK)
The AOP for skin sensitisation - what does it really tell us?

10.30-11.00 Coffee break

b) *Non-animal models*

Chair: Sue Gibbs

Susanne Kolle (Ludwigshafen, DE)
The kinetic DPRA to assess skin sensitization potency sub-categories

Nadège Ade (Lyon, FR)
U-SENS™: New perspective for chemicals interfering with fluorescence by flow cytometry

Brunhilde Blömeke (Trier, DE)
Prediction of skin sensitization potency with the COCAT model

c) *General considerations and applications*
Chair: Andreas Natsch

David Basketter (Sharnbrook, UK)
Human data –What a Mess!

Carsten Goebel (Darmstadt, DE)
Quantitative risk assessment for the occupational exposure of hairdressers to hair dyes

Janine Ezendam (Bilthoven, NL)
Skin sensitisation Quantitative Risk Assessment: the need to assess aggregate exposure from relevant sources

Helga Rothe (Darmstadt, DE)
Exposure assessment for repeated daily applications: example methylisothiazolinone

Stefan Martin (Freiburg, DE), *tentative*
Skin sensitization risk assessment – an immunological perspective

12.45-13.45 Lunch break (Coty Canteen)

Afternoon session 13.45 – approx.17.30

II. Activation of the innate immune system:
Chair: Marc Pallardy

a) *General mechanisms*

Saadia Kerdine-Römer (Paris, FR)
Nrf2 regulates neutrophil recruitment and accumulation in skin during contact hypersensitivity

Philipp Eßer (Freiburg, DE)
Role of the Unfolded Protein Response in Allergic contact dermatitis

Lin Shang (Amsterdam)
Differential toll like receptor signaling in oral mucosa exposed to commensal and pathogenic biofilms in vitro

Romain Vallion (Paris, FR)
Keratinocyte differentiation in response to a cosmetic skin sensitizer

Charlotte Rodrigues Neves (Amsterdam, NL)
Titanium salts tested in reconstructed human skin with integrated Langerhans cells show an irritant rather than sensitizing potential

Amélie Thélu (Paris, FR)
Toward skin sensitization assessment using a 3D co-culture

Jennifer Bourland (Milan, IT)
Immunocompetent reconstructed human epidermis: application to atopic dermatitis and skin sensitization

15.00- 15.30 Coffee break

b) *Activation of the innate immune system by fragrances*
Chair: Saadia Kerdine-Römer

Elena Gimenez-Arnau (Strasbourg, FR)
Free radicals generation from skin allergens in a reconstructed human epidermis 3D model

Jutta Lichter (Trier, DE)
Sensitization potential and potency of hydroperoxides in the COCAT method

Fatma Sahli (Strasbourg, FR)
Formation of radicals from sensitizing organic peroxides in a 3D epidermis model: an EPR spin-trapping study for ascaridole

Marta Sofia Taborda Silva e Sousa (Trier, DE)
An update on ascaridole skin sensitization capacity

E. Marco Gragano (Darmstadt, DE)
Activation of Linalool by myeloperoxidase?

Udo Bock (Trier, DE)
RHE/THP-1 Coculture: model construction

Mario Schellenberger (Trier, DE)
RHE/THP-1 Coculture: proof of concept

End approx. 17.30; for details on the ERGECD dinner, we will provide further information

***19.45** Dinner at Restaurant Oosten, Mayfarthstraße 4, 60314 Frankfurt am Main*
https://freigut-frankfurt.com/oosten-frankfurt/

Friday, 9th November 2018

9.00 – approx. 12.15 Morning session

III. Allergen potency mechanisms of the innate immune system
Chair: Masaaki Miyazawa

Marica Pisapia (Milan, IT)
Study of the inflammasome NLRP3 and the role of NLRP12 protein after exposure to allergens of different potency

Valentina Galbiati (Milan, IT)
Understanding allergen potency: Role of Protein Kinase C activation in the vigor of Dendritic cell activation

Helena Kanderova (Bratislava, SK)
Determination of contact sensitization potential using in vitro reconstructed normal human epidermal model EpiDerm and interleukin-18 (IL-18)

Sue Gibbs (Amsterdam, NL)
Use of reconstructed human skin and IL-18 to determine the skin sensitization potency of red and black tattoo inks

IV. Human Allergy

a) Contact dermatitis

Chair: Marc Vocanson

Jean-François Nicolas (Lyon, FR)
Contact Dermatitis as a comorbidity of Atopic Dermatitis

Marine-Alexia Lefèvre (Lyon, FR)
MODAL project : the MOlecular Diagnosis of skin ALlergy

Emi Ono (Lyon, FR)
Atopy Patch Tests diluted in vaseline are more reliable than in liquid

Devin O'Brien (Woodcliff Lake, US)
A Summary of RIFM Conducted Human Repeat Insult Patch Tests

Coffee break 10.45- 11.15

b) T-cell activation

Chair: Jean-François Nicolas

Marc Pallardy (Paris, FR)
How metals are triggering human dendritic cells leading to T-cell activation?

Niels de Graaf (Amsterdam, NL)
Lymphocyte proliferation in vitro test (LTT) for nickel using CFSE and autologous serum

Herrmann Josef Thierse (Berlin, DE)
Immunoproteomics approach reveals nickel induced cell death in human monocytes but not in T cells.

Marc Vocanson (Lyon, FR)
Massive expansion of drug-specific, clonotypic and polycytotoxic CD8+ T cells in severe forms of drug allergy

Farewell lunch: approx. 12.15 to 13.30