9th International Conference on Skin Ageing & Challenges

SKIN AGEING & CHALLENGES 2018
Recent Innovations, Biotechnology Products and Devices
February 25 - 27, 2018 - Porto, Portugal

Among Skin Ageing & Challenges 2018 sessions:
- Skin Ageing & Challenges 2018: State of the Art
- Exposomes & Skin Ageing: Recent Scientific Advances
- Skin Microbiota: Recent Scientific Advances
- Olfactory Receptors, Smell & Skin Ageing
- Algae & Skin Ageing - Interest in Cosmetic
- Presentation of Innovations

Call for Abstracts
Oral Presentation Submission: January 12
Poster Presentation Submission: February 13

Register and save

<table>
<thead>
<tr>
<th>Until January 31</th>
<th>From February 1</th>
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<tr>
<td>Academics: 520 €</td>
<td>Academics: 650 €</td>
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<td>Industrials: 920 €</td>
<td>Industrials: 1050 €</td>
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SKIN CHALLENGES SPEAKERS

What’s new in extrinsic skin aging research? State of the art
Prof. Jean Krutmann
Leibniz Research Institute for Environmental Medicine, Germany

Skin ageing and ultraviolet radiation. Is there a role for the skin microbiome?
Jean-François Doré
International Prevention Research Institute, France

AtmO3 spheric skin damages: the Ox-Inflammation phenomena
Giuseppe Vallačchi
University of Ferrara, Italy

Keratinocytes as sensors and central players in the immune defense against pathogens
Birgit Schitte
University of Tübingen, Germany

Deleterious synergy between some particulate matter components and UVA from sunlight. Contribution of “photo-pollution stress” to skin exposome
Laurent Marrot,
L’Oréal Research & Innovation, France

Air pollution and skin aging: Role of different pollutants and inter-organ crosstalk
Kateryna Fuks
Leibniz Research Institute for Environmental Medicine, Germany

Reformulation of Valsartan for treatment of chronic diabetic wounds
Peter Abadir
Johns Hopkins University School of Medicine, USA

Skin: a treasure trove for a plethora of markers
Sanjiv Sharma
Swansea University, United Kingdom

The skin aging exposome: the interplay of UV and pollution
Tamara Schikowski
Leibniz Research Institute for Environmental Medicine, Germany

Skin microbiota & epithelial barrier: recent advances and perspectives
Katharina Bitschar
University of Tübingen, Germany

Messenger RNA processing and cellular senescence in ageing skin fibroblasts
Lorna Harries
University of Exeter, United Kingdom

www.skin-challenges.com
Day 1 – February 25, 2018

17h30 / 18h30  Registration of Attendees – Badges & Abstracts book Distribution

Day 2 – February 26, 2018

07h30  Registration & Welcoming

08h55  Opening Ceremony

**Session 1: Skin Challenges 2018 – State of the Art**

*Mechanistics Aspects*

9h00  What’s new in extrinsic skin aging research – State of the art?
  *Jean Krutmann*, Leibniz Research Institute for Environmental Medicine, Germany

9h25  Keratinocytes as sensors and central players in the immune defense against pathogens
  *Birgit Schittek*, University of Tübingen, Germany

9h50  Skin Frailty: role of the Renin Angiotensin System
  *Peter Abadir*, Johns Hopkins University School of Medicine, USA

10h15  Skin: a treasure trove for a plethora of markers
  *Sanjiv Sharma*, Swansea University, United Kingdom

10h40  Coffee Break, Poster & Exhibition Session

11h25  Messenger RNA processing and cellular senescence in ageing skin fibroblasts
  *Lorna Harries*, University of Exeter, United Kingdom

11h50  Short Oral Presentations (7 minutes for presentation + 3 minutes for questions)

  *Extracellular vesicle mediated cross talk of miRNAs in skin cell aging*
  *Johannes Grillari*, Christian Doppler Laboratory for Biotechnology of Skin Aging, Austria

  *Histone variant H2A.J as a novel biomarker of cellular senescence during human skin ageing*
  *Claudia Rübe*, Saarland University, Germany

  *Involvement of mitophagy in the elimination of damaged mitochondria during the process of UVB-induced senescence*
  *Maria Cavinato*, Universität Innsbruck, Austria

  *Skin mitohormesis by targeting hydroxycinnamic acid derivates to mitochondria*
  *José Teixeira*, Center for Neuroscience & Cell Biology, Portugal
Peptides and sugars, derived from plant somatic embryo cultures, attenuates ageing-associated phenotypes in skin cells

*Fabio Apone*, Arterra Bioscience/Vitalab, Italy

Acute UV exposure impairs NO-mediated cutaneous vasodilatation through degradation of the folate metabolite 5-MTHF

*Larry Kenney*, The Pennsylvania State University, USA

12h50   Lunch Break, Poster & Exhibition Session

**Session 2: Exposomes & Skin Ageing – Recent Scientific Advances**

14h00  The skin aging exposome – the interplay of UV and pollution

*Tamara Schikowski*, Leibniz Research Institute for Environmental Medicine, Germany

14h25  Air pollution and skin aging: Role of different pollutants and inter-organ crosstalk

*Kateryna Fuks*, Leibniz Research Institute for Environmental Medicine, Germany

14h50  Deleterious synergy between some particulate matter components and UVA from sunlight contribution of “photo-pollution stress” to skin exposome

*Laurent Marrot*, L’Oréal Research & Innovation, France

15h10  AtmO3 spheric skin damages: the Ox-Inflammation phenomena

*Guiseppe Valacchi*, University of Ferrara, Italy

15h35  Coffee Break, Poster & Exhibition Session

16h35  Short Oral Presentations  (7 minutes for presentation + 3 minutes for questions)

New perspectives on the synergistic effect of multiple environmental stressors on ageing and biomechanical properties of human stratum corneum

*Reinhold H. Dauskardt*, Stanford University, USA

Multifactorial protection of urban skin via direct and indirect mechanisms

*Andrew Salazar*, Merck, Germany

Exposome: preventive & curative botanical approach

*Aína Queiroz*, ID Bio, France

Cellular signalling pathways implicated in the skin' response to pollution

*Emilie Bony*, Greentech, France

Permeation and biochemical interactions of hazardous pollutants in human skin by confocal Raman spectroscopy

*Airton Martin*, Universidade Brasil, Brazil

VEGF mediates rejuvenation of aged human skin xenografts in young mice

*Amos Gilhar*, Skin Research Laboratory, Technion, Israel

Alterations in NO-mediated cutaneous endothelial function with hypertension as defined by the 2017 JNC/AHA guidelines

*Lacy Alexander*, The Pennsylvania State University, USA

17h45  End the first day

19h45  Skin Challenges 2018 Dinner

You can register online before January 31.
Day 3 – February 27, 2018

8h55 Opening of the second day

Session 3: Skin Microbiota: Recent Scientific Advances

9h00 Skin ageing and ultraviolet radiation. Is there a role for the skin microbiome?
   Jean-François Doré, International Prevention Research Institute, France

9h25 Skin microbiota & epithelial barrier: recent advances and perspectives
   Katharina Bitschar, University of Tübingen, Germany

9h50 Short Oral Presentations (7 minutes for presentation + 3 minutes for questions)
   Is skin microbiota beneficial to human skin? Activation of the Nrf2-keap1 pathway via volatiles electrophiles
   Ron Kohen, The Hebrew University of Jerusalem, Israel
   The skin microbiota: futur challenges
   Mathieu Bey, Greentech, France
   Skin microbiome and ageing: a new strategy for skin healthy aging?
   Cécile Clavaud, L’Oréal Research and Innovation, France
   Carotenoid rich chocolate and ice cream to support skin health: from sebum to corneocytes and microbiota
   Ivan Petyaev, Lycotec Ltd., United Kingdom

10h40 Coffee Break, Poster & Exhibition Session

11h30 Skin-microbiote communication: human natriuretic peptides as regulators of propionibacterium acnes
   and staphylococcus aureus biofilm formation
   Andrei Gannesen, University of Rouen Normandy, France
   Effect of an atmospheric pollutant, NO2, on bacterial species of skin microbiota
   Xavier Janvier, University of Rouen Normandy, France
   Microenvironment impact on cutibacterium acnes: growth, virulence and biofilm formation of acneic and non-acneic strains
   Valérie Borrel, Normandie University, France
   Handling a skin microbiome project: scientific watch associated to best practices for sampling, sequencing and analysis
   Ahmad Khodr, L’Oréal Research and Innovation, France

Special Session on Olfaction and the future of Biomarkers:
   The evaluation and imaging of body volatils with non-invasive methods

12h10 Introduction by Marvin Edeas, Institut Cochin, Université Paris Descartes, France
   A short session will be dedicated to skin challenges and how we will switch to non invasive methods and devices
to evaluate the quality of skin. We will talk about Olfactory receptors, Bio-sniff or Sniff Camera and other
devices which will be integrated in our Smartphone and may be in our path rooms.

12h20 Gas-imaging system (SNIFF-CAM) of dermal volatiles for skin condition and aging analysis
   Kohji Mitsubayashi, Tokyo Medical and Dental University, Japan

12h45 Lunch Break, Poster & Exhibition Session
Session 4: Algae & Skin Ageing – Interest in Cosmetic

14h00  From chemical ecology to marine biotechnology: bioactives compounds from algae
Claire Hellio, Université de Brest, France

14h25  Marine algae as attractive source to skin care
Edith Filaire, Université Orléans, France

14h50  Original oligosaccharides from a red microalgae: relevant actions on irregular skin patterns
Jean-Paul Cadoret, Greensea Biotechnologies, France

15h15  Learning with the development of bionatural, a unique skin solar protector, with high beta-carotene content from dunaliella microalgae in 1997/8
Vítor Verdelho Vieira, Inácio Valle, Portugal

15h30  Advantages of seaweed cultivation for the cosmetic sector
Helena Abreu, AlgaPlus, Portugal

15h45  Coffee Break, Poster & Exhibition Session

16h15  Short Oral Presentations (7 minutes for presentation + 3 minutes for questions)

Selenium preserves keratinocyte stemness and delays senescence by maintaining epidermal adhesion
Walid Rachidi, Grenoble Alpes University, France

Applications of edible bird’s nest (EBN) in cosmetics development
Chan Gallant, The Hong Kong University of Science and Technology, Hong Kong

Quantitative nanohistology of human skin in health and disease
Laurent Bozec, University College London, United Kingdom

Non biological skin models: new tools for cosmetic research? From instrumental to sensory studies
Florine Eudier, Normandie University, France

The skin exposome: pollution, sunlight & beyond and innovative ideas to counteract the damages
Imke Meyer, Symrise, Germany

Activation of keratinocytes in response to repeated-exposure of a cosmetic sensitizer in a 3D skin model
Chloé Raffalli, Université Paris-Sud, France

Evaluation of the effects of intense pulsed light on the structure of collagen
Anna Maeva, University College London, United Kingdom

17h25  Round Table Discussion & Concluding Remarks

17h45  Skin Challenges 2018 Awards

18h00  End of Skin Challenges 2018

At your Diary:

3rd Symposium on Skin Microbiota 2018
June 15, 2018 – Paris, France
www.microbiota-site.com