

9th International Conference on Skin Ageing & Challenges

SKIN AGEING & CHALLENGES 2018

Recent Innovations, Biotechnology Products and Devices



February 25 - 27, 2018

Hotel Crowne Plaza Porto
Porto - Portugal



INTERNATIONAL SOCIETY
OF
ANTIOXIDANTS



www.skin-challenges.com

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Deadline for Abstract submission
Short Oral presentation: January 12, 2018
Poster presentation: February 13, 2018

www.skin-challenges.com

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

Until January 31	From February 1
Academics: 520 €	Academics: 650 €
Industrials: 920 €	Industrials: 1050 €

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



High environmental ozone levels and extrinsic skin aging

Kateryna Fuks
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



Reformulation of Valsartan for treatment of chronic diabetic wounds

Peter Abadir
Johns Hopkins University School of Medicine, USA



AtmO3 spheric skin damages: the Ox-Inflammation phenomena

Guiseppe Valacchi
University of Ferrara, Italy



Skin: a treasure trove for a plethora of markers

Sanjiv Sharma
Swansea University, United Kingdom



Keratinocytes as sensors and central players in the immune defense against pathogens

Birgit Schitteck
University of Tübingen, Germany



The skin aging exposome: the interplay of UV and pollution

Tamara Schikowski
Leibniz Research Institute for Environmental Medicine, 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



Skin microbiota & epithelial barrier: recent advances and perspectives

Katharina Bitschar
University of Tübingen, Germany



Marine algae as attractive source to skin care

Edith Filaire
Université d'Orléans, France



Messenger RNA processing and cellular senescence in ageing skin fibroblasts

Lorna Harries
University of Exeter, United Kingdom

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SKIN AGEING & CHALLENGES 2018

Recent Innovations, Biotechnology Products and Devices

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 Mechanistic 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 Schitteck, 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 derivatives 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 High environmental ozone levels and extrinsic skin aging

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

Guisepe 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

Aïna 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

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

Lacy Alexander, The Pennsylvania State University, USA

Age-associated dermal stem cell niche dysfunction correlates with reduced SOX2 expression levels

Ander Izeta, Hospital Universitario Donostia, San Sebastian, Spain

VEGF mediates rejuvenation of aged human skin xenografts in young mice

Amos Gilhar, Skin Research Laboratory, Technion, Israel

17h55 End the first day

20h00 Skin Challenges 2018 Dinner

You can register online before February 7.

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 Coffee Break, Poster & Exhibition Session
- 16h00 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 Maeve, University College London, United Kingdom
- 17h10 Round Table Discussion & Concluding Remarks**
- 17h25 Skin Challenges 2018 Awards**
- 17h30 End of Skin Challenges 2018**