

*9<sup>th</sup> 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](http://www.skin-challenges.com)



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### SKIN AGEING & CHALLENGES 2018



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

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### 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

# 9<sup>th</sup> International Conference on Skin Ageing & Challenges

## 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, NO<sub>2</sub>, 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**