10TH INTERNATIONAL CONFERENCE ON SKIN AGEING & CHALLENGES

SKIN AGEING& CHALLENGES

February 25 - 27, 2019

PORTO - PORTUGAL CROWNE PLAZA HOTEL



INTERNATIONAL Society of Microbiota

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INTERNATIONAL CONFERENCE ON SKIN AGEING & CHALLENGES

SKIN AGEING&CHALLENGES 25-27 FEBRUARY 2019

Recent Innovations, Biotechnology Products and Devices

Skin Challenges & Ageing 2019 Sessions:

- Draft the state of the art in skin ageing

Jean Krutmann

Medicine, Germany

Shigefumi Okamoto

Kanazawa University, Japan

- Present the different mechanisms involved in Skin Aging
- Discuss the role of microbiota and skin microbiota
- Highlight the recent innovations in skin ageing and photo ageing
- Present the role of life style and circadian rhythm on the skin

Submit your Abstract and Innovation before February 13

Key dates to remember



Poster Submission

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10TH

Crosstalk between different wavelengths regions present in natural sunlight: Implications for photoprotection

Leibniz Research Institute for Environmental

Techniques for collecting skin microbiome

samples: Limits and perspective



Skin Challenges Speakers

Rethinking the definition of hygiene? - Mutual interactions between the human microbiome and the built environment microbiome

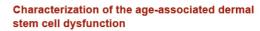
Markus Egert Furtwangen University, Germany

Dialogue between the skin and the microbiota: The immune system is under control





Tamara Schikowski Leibniz Research Institute for Environmental Medicine, Germany



Ander Izeta Instituto Biodonostia, Spain



Claudia Wigmann Leibniz Research Institute for Environmental Medicine, Germany

SRB1 as a redox target of pollution induced skin damage



What is the effects of UVA and UVB on the skin microbiome ?

Nabiha Yusuf University of Alabama, USA



Targeting DNA repair in skin: Role of the aryl hydrocarbon receptor

Thomas Haarmann-Stemmann Leibniz Research Institute for Environmental Medicine, Germany

Explaining human skin perception from barrier and biomechanical properties





follicles

Rational design of drug carriers to the hair

Nethanel Friedman The Hebrew University, Israel

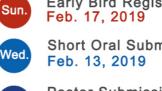






Giuseppe Valacchi University of Ferrara, Italy

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Mon Feb. 17, 2019

10TH INTERNATIONAL CONFERENCE ON SKIN AGEING & CHALLENGES SKIN AGEING & CHALLENGES 25-27 FEBRUARY 2019

Recent Innovations, Biotechnology Products and Devices

Crowne Plaza Hotel PORTO - PORTUGAL

On behalf of the members of the scientific committee, we are pleased to welcome you for the 10th International Conference on Skin Ageing and Challenges which is held on February 25-27, 2019 in Porto, Portugal.

Skin Challenges 2019 is held under the patronage of the International Microbiota Society (IMS) and the International Society of Antioxidants in Nutrition and Health (ISANH).

Ageing is an international issue that has social, economic and individual impacts. Preventing it and decreasing its side effects (all related pathologies) are major challenges for humanity. Thus, the understanding of ageing and in particular skin ageing mechanisms will allow us to live longer, better and healthier.

During Skin Challenges 2019, the Scientific Committee will allocate significant time to discuss the latest advances related to skin homeostasis and ageing. Our objective is to provide answers and to give a future vision and trends on how can the current researches delay the side effects of ageing and skin ageing?

We will provide also more time and space to present the recent innovations, biotechnology products and devices.

The aims of Skin Challenges 2019 are to:

- Draft the state of the art in skin ageing
- Present the different mechanisms involved in homeostasis and skin aging but also to address the different tracks and pathways (signaling, transcription factors...) involved in this process
- Discuss the role of microbiota and skin microbiota
- Highlight the recent innovations in skin ageing and photo ageing
- Present the role of life style and circadian rhythm on the skin
- Select recent innovations related to skin

A general discussion will be organized between chairpersons and speakers at the end of the conference.

As always, we very much look forward to seeing you in sunny Porto for this exciting event.



Prof. Jean Krutmann, President of Skin Ageing & Challenge 2019 UF – Leibniz Research Institute for Environmental Medecine, Germany **INTERNATIONAL CONFERENCE ON SKIN AGEING & CHALLENGES**

SKIN AGEING&CHALLENGES 25-27 FEBRUARY 2019

Recent Innovations, Biotechnology Products and Devices

Scientific Agenda

Chairpersons:

Reinhold H. Dauskardt, Marvin Edeas, Markus Egert, Ander Izeta, Nabiha Yusuf, Giuseppe Valacchi,

Chantal Pichon, Jean Krutmann, Shigefumi Okamoto, Thomas Haarmann-Stemmann, Tamara Schikowski, Alessandra Napolitano, Carole Nicco

Day 1 - February 25, 2019

17:30-19:00 Registration of Attendees – Badges & Abstracts book Distribution

Day 2 - February 26, 2019

7:30-8h55 Registration & Welcoming

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8:55 Introduction by Skin Ageing & Challenges 2019 Chairpersons

Session 1: Skin Ageing & Challenges 2019 - State of the Art

Chairpersons: Marvin Edeas, Jean Krutmann, Reinhold H. Dauskardt

- 9:00 Crosstalk between different wavelengths regions present in natural sunlight: Implications for photo-protection Jean Krutmann, Leibniz Research Institute for Environmental Medicine, Germany
- 9:30 Targeting DNA repair in skin: Role of the aryl hydrocarbon receptor Thomas Haarmann-Stemmann, Leibniz Research Institute for Environmental Medicine, Germany
- 10:00 Characterization of the age-associated dermal stem cell dysfunction Ander Izeta, Instituto Biodonostia, Spain

10:30 Coffee Break & Poster Session

- 11:00
 Explaining human skin perception from barrier and biomechanical properties

 Reinhold H. Dauskardt, Stanford University, USA
- 11:30
 New insights into skin fibroblast evolution during ageing

 Valérie Haydont, L'Oréal, Paris
- 12:00 Skin ageing in female scalp: changes in the extracellular-matrix hair follicle environment a comparison of cultured dermal fibroblasts & hair follicle dermal sheath cells *Rachael Sutherland-Sedman,* University of Bradford, United Kingdom

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Session 2: Life Style, Circadian Rhythm and Skin

Chairpersons: Thomas Haarmann-Stemmann, Giuseppe Valacchi

14:00	New insights into extrinsic skin aging: Crosstalk between UV and air pollution Tamara Schikowski, Leibniz Research Institute for Environmental Medicine, Germany	
14:30	Application of weighted risk scores to estimate the relative contribution of environmental and genetic factors to skin aging: A step towards individualized cosmetics <i>Claudia Wigmann</i> , Leibniz Research Institute for Environmental Medicine, Germany	
15:00	Melanin and skin pigmentation: functional role and application opportunities Alessandra Napolitano, University of Naples Federico II, Italy	
	15:30 Coffee Break & Poster Session	
	Chairpersons: Alessandra Napolitano, Carole Nicco	
16:15	SRB1 as a redox target of pollution induced skin damage Giuseppe Valacchi, University of Ferrara, Italy	
16:45	Natural and bioinspired phenolic compounds for the treatment of skin hyperpigmentation <i>Lucia Panzella</i> , University of Naples Federico II, Italy	
	Nanocellulose-hyaluronic acid microneedles for cosmetic applications Daniela Filipa da Silva Fonseca, University of Aveiro, Portugal	
	Evaluation of collagen fibril damage in ex-vivo porcine model due to ageing and radiation exposure: New techniques for micro and macro evaluation	
	Anna Romanovna Maeva, University College of London, United Kingdom	
	Characterization of biochemical Changes in human skin due to the incidence of blue light irradiation by confocal raman spectroscopy	
	Airton Abrahao Martin, Universidade Brasil Sao Paulo, Brazil	
	Principal component analysis of facial ageing phenotypes in the Rotterdam study Luba Milena Pardo, Erasmus Medical Center, The Netherlands	
	Involvement of inflammasome pathway in ozone induced skin damage Francesca Ferrara, University of the Studies of Ferrara, Italy	
	Epidemiology and determinants of facial telangiectasia: A cross-sectional study Selma Mekic, Erasmus MC, The Netherlands	
	Evaluation of natural extracts from winemaking waste streams for cosmetic applications <i>Melanie Santos Matos</i> , Instituto de Biologia Experimental e Tecnológica (iBET), Portugal	
18:10	End of the second day	
20:30	Skin Challenges 2019 Dinner (to participate, please register online) : will be held at the Crowne Plaza	
	Day 3 – February 27, 2019	
Session 3: Skin Microbiota: Recent Scientific Advances		
	Chairpersons: Markus Egert, Tamara Schikowski	
09:00	The built environment microbiome and the human microbiome (Skin & Gut): The new concepts & challenges Markus Egert, Furtwangen University, Germany	
09:30	What is the effects of UVA and UVB on the skin microbiome? Nabiha Yusuf, University of Alabama, USA	

10:00	Techniques for collecting skin microbiome samples: Limits and Perspective Shigefumi Okamoto, Kanazawa University, Japan
	10:30 Coffee Break & Poster Session
	Chairpersons: Shigefumi Okamoto, Nabiha Yusuf
11:15	Dialogue between the skin and the microbiota: The immune system is under control Chantal Pichon, French National Centre for Scientific Research, France
11:45	The spectacle and the skin – Cultivation-based analysis of the bacteriota on spectacles in a university and a nursing home-setting Birgit Fritz, Hochschule Furtwangen University, Germany
	Lactobacillus pentosus extract: Effect on host defense stimulation and skin microbiota Sandie Gervason, GreenTech, France
	12:15 Lunch Break & Poster Session
	Session 4: Skin Challenges 2019: Presentation of Innovations
	Chairpersons: Ander Izeta, Chantal Pichon
13:30	Rational design of drug carriers to the hair follicles Nethanel Friedman, The Hebrew University, Israel
14:00	Biomemetic approaches for a positive skin aging: Effect on senescence skin markers <i>Marion Napoli</i> , GreenTech, France
	Peg free topical formulations towards an effective antioxidant delivery to prevent skin ageing Laurianne Simon, Montpellier University, CNRS, France
	How does our skin sense the environment? Exploring opsin photoreceptors and bitter taste receptors in human skin Ludivine Mur, ASHLAND, Global Skin Research Center, Sophia-Antipolis, France
	Disruptive anti-ageing strategy using skin stem cells and preserving skin microbiota balance for healthier skin Morgane De Tollenaere, Givaudan, France
	White-light supercontinuum laser-based multiple wavelength excitation for tcspc-flim of cutaneous nanocarrier uptake in skin models of UV-induced aging of the skin Ulrike Alexiev, Freie Universität Berlin, Germany
	The potential of menthol-fatty acids deep eutectic solvents as skin wound healing enhancers Ana A. Matias, iBET, Portugal
	15:30 Coffee Break & Networking
15:45	Concluding Remarks by the chairpersons
16:35	End of Skin Challenges 2019