INTERNATIONAL CONFERENCE ON SKIN AGEING & CHALLENGES

SKIN AGEING8 CHALLENGES



PORTO - PORTUGAL CROWNE PLAZA HOTEL





SKIN AGEING&CHALLENGES

Recent Innovations, Biotechnology Products and Devices

25-27 FEBRUARY 2019

Crowne Plaza Hotel PORTO - PORTUGAL

Skin Challenges & Ageing 2019 Sessions:

- Draft the state of the art in skin ageing
- 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



Early Bird Registration Feb. 17, 2019



Short Oral Submission Feb. 13, 2019



Poster Submission Feb. 17, 2019

Skin Challenges Speakers



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

Jean Krutmann Leibniz Research Institute for Environmental Medicine, Germany



Techniques for collecting skin microbiome samples: Limits and perspective

Shigefumi Okamoto Kanazawa University, Japan



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

Reinhold H. Dauskardt Stanford University, USA



Rational design of drug carriers to the hair follicles

Nethanel Friedman The Hebrew University, Israel



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

Markus Egert Furtwangen University, Germany



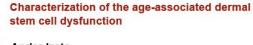
Dialogue between the skin and the microbiota: The immune system is under control

Chantal Pichon
French National Centre for Scientific Research,
France



New insights into extrinsic skin aging: Crosstalk between UV and air pollution

Tamara Schikowski Leibniz Research Institute for Environmental Medicine, Germany



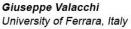
Ander Izeta Instituto Biodonostia, Spain



Application of weighted risk scores to estimate the relative contribution of environmental and genetic factors to skin aging: A step towards individualized cosmetics

Claudia Wigmann Leibniz Research Institute for Environmental Medicine, Germany





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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

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	Day 1 – February 25, 2019
17:30-19:00	Registration of Attendees – Badges & Abstracts book Distribution
	Day 2 – February 26, 2019
7:30-9:00	Registration & Welcoming
8:55	Introduction by Skin Ageing & Challenges 2019 Chairpersons
	Session 1: Skin Ageing & Challenges 2019 – State of the Art
	Mechanistics Aspects and Recent Advances
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	What is the effects of UVA and UVB on the skin microbiome? Nabiha Yusuf, University of Alabama, USA
10:00	Targeting DNA repair in skin: Role of the aryl hydrocarbon receptor Thomas Haarmann-Stemmann, Leibniz Research Institute for Environmental Medicine, Germany
	10h30 Coffee Break & Poster Session
11:00	Characterization of the age-associated dermal stem cell dysfunction Ander Izeta, Instituto Biodonostia, Spain
11:30	Explaining human skin perception from barrier and biomechanical properties Reinhold H. Dauskardt, Stanford University, USA
12h00	Short Oral Presentation
	Geroprotectors in the food can affect Skin Aging Alexey Moskalev, Institute of biology of Komi Science Center of RAS, Russia
	12:30 Lunch Break & Poster Session
	Session 2: Life Style, Circadian Rhythm and Skin
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 to skin aging: A step towards individualized cosmetics Claudia Wigmann, Leibniz Research Institute for Environmental Medicine, Germany
15h00	Melanin and skin pigmentation: functional role and application opportunities Alessandra Napolitano, University of Naples Federico II, Italy
15h30	Natural and bioinspired phenolic compounds for the treatment of skin hyperpigmentation

Lucia Panzella, University of Naples Federico II, Italy

15:45 Coffee Break & Poster Session

16h15 SRB1 as a redox target of pollution induced skin damage Giuseppe Valacchi, University of Ferrara, Italy 16h45 **Short Oral Presentations** End the second day 18h30 20h30 Skin Challenges 2019 Dinner (to participate, please register online). Day 3 - February 27, 2019 Session 3: Skin Microbiota: Recent Scientific Advances The built environment microbiome and the human microbiome (Skin & Gut): The new concepts & challenges 09:00 Markus Egert, Furtwangen University, Germany 09:30 Techniques for collecting skin microbiome samples: Limits and Perspective Shigefumi Okamoto, Kanazawa University, Japan 10:00 Dialogue between the skin and the microbiota: The immune system is under control Chantal Pichon, French National Centre for Scientific Research, France 10h30 Coffee Break & Poster Session **Major Talks** 11:00 12:00 **Short Oral Presentations** 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 12h30 Lunch Break & Poster Session Session 4: Skin Challenges 2019: Presentation of Innovations 14:00 Rational design of drug carriers to the hair follicles Nethanel Friedman, The Hebrew University, Israel 14:30 **Major Talks** 15:00 **Short Oral Presentations** Biomemetic approaches for a positive skin aging: Effect on senescence skin markers Marion Napol, GreenTech, France Peg free topical formulations towards an effective antioxidant delivery to prevent skin ageing Laurianne Simon, Montpellier University, CNRS, France Constructed DNA to protect skin against UV damage and photo ageing: use of synthetic biology Raul Cuero, Bio Capital Holdings, USA 15:40 **Round Table Discussion & Concluding Remarks** Skin Challenges 2019 Awards 16:00 16:30 End of Skin Challenges 2019