

10TH

INTERNATIONAL CONFERENCE ON SKIN AGEING & CHALLENGES

SKIN AGEING & CHALLENGES



February 25 - 27, 2019

PORTO - PORTUGAL
CROWNE PLAZA HOTEL



INTERNATIONAL SOCIETY
OF
ANTIOXIDANTS

**INTERNATIONAL
SOCIETY OF
MICROBIOTA**

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25-27 FEBRUARY 2019

*Recent Innovations, Biotechnology Products and Devices*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

- Sun.** Early Bird Registration
Feb. 17, 2019
- Wed.** Short Oral Submission
Feb. 13, 2019
- Mon.** 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-Stemann
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



Characterization of the age-associated dermal stem cell dysfunction

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



Pollution and skin inflammation: From inflammasome activation to AMPs regulation

Giuseppe Valacchi
University of Ferrara, Italy

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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 Medicine,
Germany

SKIN AGEING & CHALLENGES**25-27 FEBRUARY 2019***Recent Innovations, Biotechnology Products and Devices*Crowne Plaza Hotel
PORTO - PORTUGAL**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*Mechanistic 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, Germany9:30 **What is the effects of UVA and UVB on the skin microbiome?**
Nabiha Yusuf, University of Alabama, USA10:00 **Targeting DNA repair in skin: Role of the aryl hydrocarbon receptor**
Thomas Haarmann-Stemann, Leibniz Research Institute for Environmental Medicine, Germany10h30 *Coffee Break & Poster Session*11:00 **Characterization of the age-associated dermal stem cell dysfunction**
Ander Izeta, Instituto Biodonostia, Spain11:30 **Explaining human skin perception from barrier and biomechanical properties**
Reinhold H. Dauskardt, Stanford University, USA12h00 **Short Oral Presentation****Geroprotectors in the food can affect Skin Aging**
Alexey Moskalev, Institute of biology of Komi Science Center of RAS, Russia12:30 *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, Germany14:30 **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, Germany15h00 **Melanin and skin pigmentation: functional role and application opportunities**
Alessandra Napolitano, University of Naples Federico II, Italy15h30 **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**

Nanocellulose-hyaluronic acid microneedles for cosmetic applications
Daniela Filipa da Silva Fonseca, University of Aveiro, Portugal

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

18h30 **End the second day**

20h30 **Skin Challenges 2019 Dinner** (to participate, please [register online](#)).

Day 3 – February 27, 2019

Session 3: Skin Microbiota: Recent Scientific Advances

09:00 **The built environment microbiome and the human microbiome (Skin & Gut): The new concepts & challenges**
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

11:00 **Major Talks**

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**

Biomimetic 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**

16:00 **Skin Challenges 2019 Awards**

16:30 ***End of Skin Challenges 2019***