

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



February 25 - 27, 2019

PORTO - PORTUGAL
Crowne Plaza Hotel



INTERNATIONAL SOCIETY
OF
ANTIOXIDANTS

**INTERNATIONAL
SOCIETY OF
MICROBIOTA**

www.skin-challenges.com

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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

Thu. Early Bird Registration
Jan. 16, 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



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

Markus Egert
Furtwangen University, Germany



Techniques for collecting skin microbiome samples: Limits and perspective

Shigefumi Okamoto
Kanazawa University, Japan



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

Chantal Pichon
French National Centre for Scientific Research, France



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

Nabiha Yusuf
University of Alabama, USA



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

Tamara Schikowski
Leibniz Research Institute for Environmental Medicine, Germany



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

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



Characterization of the age-associated dermal stem cell dysfunction

Ander Izeta
Instituto Biodonostia, Spain



Rational design of drug carriers to the hair follicles

Nethanel Friedman
The Hebrew University, Israel



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

Claudia Köllmann
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
IUF – Leibniz Research Institute for Environmental Medicine, Germany

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Day 1 – February 25, 2019

17h30-18h30 Registration of Attendees – Badges & Abstracts book Distribution

Day 2 – February 26, 2019

7h30-9h00 Registration & Welcoming

8h55 Introduction by Skin Ageing & Challenges 2018 Chairpersons

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

Mechanistic Aspects and Recent Advances

Major Talks

9h00 Crosstalk between different wavelengths regions present in natural sunlight: Implications for photo-protection

Jean Krutmann, Leibniz Research Institute for Environmental Medicine, Germany

9h30 What is the effects of UVA and UVB on the skin microbiome?

Nabiha Yusuf, University of Alabama, USA

10h00 Targeting DNA repair in skin: Role of the aryl hydrocarbon receptor

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

10h30 Characterization of the age-associated dermal stem cell dysfunction

Ander Izeta, Instituto Biodonostia, Spain

10h30-11h00 Coffee Break, Poster & Exhibition Session

11h00-12h00 Major Talks (2)

12h00-12h30 Short Oral Presentations (7 minutes + 3 minutes for questions)

Explaining human skin perception from barrier and biomechanical properties

Reinhold H. Dauskardt, Stanford University, USA

A melanin with potent photo-protective and antioxidant activities for dermo-cosmetic applications

Alessandra Napolitano, University of Naples Federico II, Italy

Natural and bioinspired phenolic compounds for the treatment of skin hyperpigmentation

Lucia Panzella, University of Naples Federico II, Italy

12h00-14h00 Lunch Break, Poster & Exhibition Session

Session 2: Skin Microbiota: Recent Scientific Advances

- 14h00 **The built environment microbiome and the human microbiome (Skin & Gut): The new concepts & challenges**
Markus Egert, Furtwangen University, Germany
- 14h30 **Techniques for collecting skin microbiome samples: Limits and Perspective**
Shigefumi Okamoto, Kanazawa University, Japan
- 15h00 **Dialogue between the skin and the microbiota: The immune system is under control**
Chantal Pichon, French National Centre for Scientific Research, France

15h30-16h30 Coffee Break, Poster Session

- 16h30 **Major Talks (3)**
- 17h00-18h30 **Short Oral Presentations** (7 minutes for presentation + 3 minutes for questions)
- Lactobacillus pentosus extract: Effect on host defense stimulation and skin microbiota**
Sandie Gervason, GreenTech, France
- Peg free topical formulations towards an effective antioxidant delivery to prevent skin ageing**
Laurianne Simon, Montpellier University, CNRS, France
- Cutaneous neoplasm in the elderly: two case reports and literature review**
Xuehua Xi, Chinese academy of medical sciences & Peking union medical college, China
- Constructed DNA to protect skin against UV damage and photo ageing: use of synthetic biology**
Raul Cuero, Bio Capital Holdings, USA
- 18h30 **End the first day**
- 20h30 **Skin Challenges 2018 Dinner** (to participate, please register online before January 31).

Day 3 – February 27, 2019

9h00 Opening of the third day

Session 3: Life Style, Circadian Rhythm and Skin

9h00 **New insights into extrinsic skin aging: Crosstalk between UV and air pollution**
Tamara Schikowski, Leibniz Research Institute for Environmental Medicine, Germany

9h30 **Application of weighted risk scores to estimate the relative contribution of environmental and genetic to skin aging: A step towards individualized cosmetics**
Claudia Köllmann, Leibniz Research Institute for Environmental Medicine, Germany

10h00 Major Talks (3)

10h30-11h00 *Coffee Break, Poster Session*

11h00-12h30 **Short Oral Presentations** (7 minutes + 3 minutes for questions)

12h30-14h00 *Lunch Break, Poster & Exhibition Session*

Session 4: Skin Challenges 2019: Presentation of Innovations

14h00-14h30 **Rational design of drug carriers to the hair follicles**
Nethanel Friedman, The Hebrew University, Israel

14h30-15h00 Major Talks (3)

15h00-15h30 **Short Oral Presentations** (7 minutes + 3 minutes for questions)

Biomimetic approaches for a positive skin aging : Effect on senescence skin markers
Marion Napol, GreenTech, France

Epigenetics and beauty: how to program your DNA for health and vitality
Anne Marie Fine, Fine Natural Products, USA

15h30-16h00 **Round Table Discussion & Concluding Remarks**

Skin Challenges 2019 Awards

End of Skin Challenges 2018