

14th International Conference

SKIN
CHALLENGES

Skin & Ageing Challenges



November
9-10, 2023

Lisbon, Portugal

Dear Colleagues,

The scientific committee is delighted to announce to you their newest edition concerning Skin Ageing & Challenges. The 14th International Conference on Skin Ageing and Challenges 2023 will be held on November 9-10, 2023 at Altis Grand Hotel, Lisbon, Portugal and Online.

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.

Skin Challenges 2023 is organized under the patronage of the International Society of Microbiota (ISM).

During Skin Challenges 2023, 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?

During both days, many oral and poster communications will be presented and will cover many hot topics.

Among the Topics which will be discussed during 2 days congress:

- Climate Change & Environment: Consequences for Skin Health
- The Skin Microbiome: A Strategic Player in Health & Disease
- Skin Ageing & Challenges: Epigenetics, Metabolism and Innovations

As always, we are very much looking forward to meeting you.



Prof. Jean Krutmann,
President of Skin Ageing & Challenges 2023,
IUF – Leibniz Research Institute for Environmental Medicine
Leibniz, Germany

14th International Conference



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Skin Challenges 2023 Speakers



Increased Temperature in Skin Aging: Mechanistic Insights
Jean Krutmann, President of Skin Challenges, Leibniz Research Institute for Environmental Medicine, Germany



Microbiome and Microbiota Revolution: What is Next?
Marvin Edeas, Institut Cochin, INSERM, Université de Paris, France



Climate Change & Skin: An Overview
Tamara Schikowski, Leibniz Research Institute for Environmental Medicine, Germany



Climate Change & Infectious Skin Diseases
Eva Rawlings Parker, Vanderbilt University Medical Center, USA



Epigenetic Changes in the Pathogenesis of Hidradenitis Suppurativa
Mohammad Athar, The University of Alabama at Birmingham, USA



Impact of Pollution on Skin Health & Ageing: Standpoint 2023
Luc Aguilar, L'Oréal R&D, France



Clinical trials of Lactiplantibacillus plantarum LB244R®
Helena Falholt Elvebakken, Lactobio A/S, Denmark



Effects of Spaceflight on Human Skin
Árpád Farkas, Hautarztpraxis Glattdbrugg, Switzerland



Targeting Mitochondria to Decrease Aging Effects: Current Prospects
Paulo J. Oliveira, University of Coimbra, Portugal



The Role of Climate Change in Skin Aging: Epidemiological Evidence
Nidhi Signh, IUF - Leibniz Research Institute for Environmental Medicine, Germany



Hydroxycinnamic Acid Derivatives as Bifunctional Antioxidants and Iron Chelators for UVA Photoprotection in Skin Cells
Charareh Pourzand, University of Bath, The United Kingdom



Targeting Epigenetic Age to Prevent Skin Cancer
Manuel Rodríguez-Paredes, German Cancer Research Center (DKFZ), Germany



Probiotic Bacillus to control Staphylococcus aureus colonization
Michael Otto, National Institutes of Health (NIH), USA



Exploring Sensorial Perception, Unraveling Treatment Formulations & Gender Disparities in Male and Female Skin
Anne Potter, L'Oréal R&D, France



Natural Polymers as Smart Wound Biomedical Devices
Rosalia Bertorelli, Istituto Italiano Di Tecnologia, Italy



Skin Aging in Long-Lived Naked Mole-Rats: Mechanisms and Perspectives
Vladimir A. Botchkarev, Boston University School of Medicine, USA



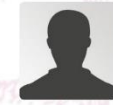
Dissecting Systemic Coordination of Epidermal Daily Physiology
Thomas Mortimer, Institute for Research in Biomedicine, Spain



Revitalizing Skin Structure: Counteracting Gravity's Damaging Effects Through Macromolecular Reorganization
Marie Meunier, Givaudan, France



The Skin Lipid and Microbiota Profiles Change with Age, With Consequences for the Epidermal Barrier and Skin Health
Anna Nicolaou, University of Manchester, United Kingdom



Metabolic Reprogramming of Skin Using Mitochondrial Sulfide Delivery Molecules
Matt Whiteman, University of Exeter, United Kingdom

www.skin-challenges.com

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Congress Program Day 1 - November 9, 2023

8h00 – Materials Distribution

8h50 – Welcome Note & Introductory Remarks

Jean Krutmann, President of Skin Ageing & Challenges 2023, Leibniz Research Institute for Environmental Medicine, Germany
Marvin Edeas, Chairman of Skin Ageing & Challenges 2023, Institut Cochin, INSERM, Université de Paris, France

Session 1: Climate Change & Environment: Consequences for Skin Health

Presentations lengths: 20 minutes

Chairpersons: Jean Krutmann & Eva Rawlings Parker



9h00 **Climate Change & Skin: An Overview**

Tamara Schikowski, Leibniz Research Institute for Environmental Medicine, Germany



9h25 **The Role of Climate Change in Skin Aging: Epidemiological Evidence**

Nidhi Singh, IUF – Leibniz Research Institute for Environmental Medicine, Germany



9h50 **Increased Temperature in Skin Aging: Mechanistic Insights**

Jean Krutmann, President of Skin Ageing & Challenges, Leibniz Research Institute for Environmental Medicine, Germany

10h15 **Panel Discussion**

10h30 Coffee Break, Networking, & Poster Session



11h15 Impact of Pollution on Skin Health & Ageing: Standpoint 2023
Luc Aguilar, L'Oréal R&D, France



11h40 Climate Change & Infectious Skin Diseases
Eva Rawlings Parker, Vanderbilt University Medical Center, USA

12h05 Panel Discussion

12h15 Lunch Break, Networking, & Poster Session

Session 2: The Skin Microbiome: A Strategic Player in Health & Disease

Presentations lengths: 20 minutes

Chairpersons: Marvin Edeas & Tamara Schikowski



14h00 Microbiome and Microbiota Revolution: What is Next ?
Marvin Edeas, Institut Cochin, INSERM, Université de Paris, France



14h25 The Skin Lipid and Microbiota Profiles Change with Age, With Consequences for the Epidermal Barrier and Skin Health
Anna Nicolaou, University of Manchester, United Kingdom



14h45 Probiotic Bacillus to control Staphylococcus aureus colonization
Michael Otto, National Institutes of Health (NIH), USA



15h10 Clinical trials of Lactiplantibacillus plantarum LB244R®
Helena Falholt Elvebakken, Lactobio A/S, Denmark

15h35 – Panel Discussion

15h50 - Coffee Break, Networking, & Poster Session

- 16h20 **Temporal Variations of the Facial Skin Microbiome Are Not Indicative of Seasonal Patterns**
Clémence Robert, Complife Italia, Italy
- 16h35 **Updated Evidence on Age-Related Changes in The Facial Skin Microbiome at Different Life Stages**
Federica Cascella, University of Eastern Piedmont "Amedeo Avogadro", Italy
- 16h50 **The Effect of *L. Reuteri* on Human Skin- A Double Blinded, Randomized Clinical Trial**
Ulf Åkerström, Skinome, Sweden

Space Flight and Gravity

Presentations lengths: 20 minutes



- 17h05 **Effects of Spaceflight on Human Skin**
Árpád Farkas, Hautarztpraxis Glattbrugg, Switzerland



- 17h25 **Revitalizing Skin Structure: Counteracting Gravity's Damaging Effects Through Macromolecular Reorganization**
Marie Meunier, Givaudan, France

17h45 **Panel Discussion**

17h50 **End of Conference Day 1**

20h00 **Skin Ageing & Challenges 2023 Dinner (for ticket holders only)**

To join the dinner, you can register through [this link](#).

Congress Program Day 2 - November 10, 2023

8h50 **Welcome & Introductory Talk**

Session 3: Skin Ageing & Challenges: Epigenetics, Metabolism and Innovations

Presentations lengths: 25 minutes

Chairpersons: Paulo J. Oliveira & Manuel Rodríguez-Paredes



9h00 **Epigenetic Changes in the Pathogenesis of *Hidradenitis Suppurativa***
Mohammad Athar, The University of Alabama at Birmingham, USA



9h25 **Targeting Epigenetic Age to Prevent Skin Cancer**
Manuel Rodríguez-Paredes, German Cancer Research Center (DKFZ), Germany



9h50 **Metabolic Reprogramming of Skin Using Mitochondrial Sulfide Delivery Molecules**
Matt Whiteman, University of Exeter, United Kingdom

10h15 **Panel Discussion**

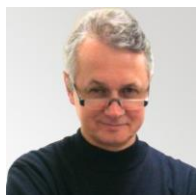
10h30 – Coffee Break, Networking, & Poster Session



11h10 **Targeting Mitochondria to Decrease Aging Effects: Current Prospects**
Paulo J. Oliveira, University of Coimbra, Portugal



11h35 **Dissecting Systemic Coordination of Epidermal Daily Physiology**
Thomas Mortimer, Institute for Research in Biomedicine, Spain



12h00 Skin Aging in Long-Lived Naked Mole-Rats: Mechanisms and Perspectives
Vladimir A. Botchkarev, Boston University School of Medicine, USA

12h25 Panel Discussion

12h40 – Lunch Break, Networking, & Poster Session

Chairpersons: Michael Otto & Charareh Pourzand



13h45 Exploring Sensorial Perception, Unraveling Treatment Formulations & Gender Disparities in Male and Female Skin
Anne Potter, L'Oreal R&D, France



14h10 Hydroxycinnamic Acid Derivatives as Bifunctional Antioxidants and Iron Chelators for UVA Photoprotection in Skin Cells
Charareh Pourzand, University of Bath, United Kingdom



14h35 Natural Polymers as Smart Wound Biomedical Devices
Rosalia Bertorelli, Istituto Italiano Di Tecnologia, Italy

14h50 Panel Discussion

Presentations lengths: 15 minutes

15h00 Skin Aging Criteria and Search for Anti-Aging Interventions
Andrey Koptug, Mid Sweden University, Sweden

15h15 A Novel Anti-Ageing Extract from Stemona Tuberosa Roots and Its Effect on the Skin Collagen Network
Javier Arrieta-Escobar, Inabata, France

15h30 Diabetic Skin: New Cosmetic Treatments with a Ca²⁺ Vector System
Julia Baumann, Mibelle Biochemistry, Switzerland

15h45 Novel Standardizable in-vitro Psoriasis Model Based on Human Stat3 Overexpressing Keratinocytes
Hanna Glasebach, Fraunhofer Institute for Interfacial Engineering and Biotechnology, Germany

16h00 Ascorbic Acid Induces a Basal-like Phenotype in Immortalized Keratinocyte-derived Cells Through a Dose-Dependent Treatment and Influences 3D Culture Quality

Angie Katherine Molina-Oviedo, University Carlos III of Madrid, Spain

16h15 Keratin-TMAO Wound Dressing Promotes Polarization of M2 Macrophages and Accelerates Wound Healing in Diabetic Rats

Mateusz Rybka, Medical University of Warsaw - MUW, Poland

16h20 Skin Ageing & Challenges 2023 Awards

 **Getting Together Drinks and Appetizers**

Skin Ageing & Challenges 2023 Posters

Posters will be discussed in the poster sessions during the breaks

1. Co-Exposure to UV Radiations and Pollution Modifies Epigenetic Marks and Splicing Factor Expression

Marie Dorr, Groupe Clarins, France

2. Monitoring of Dynamic Nrf2 Activity in a Living Cell-Based Biosensor

Uraivan Panich, Mahidol University, Thailand

3. Influence of Water-filtered Infrared-A (wIRA) Hyperthermia and Spermidine on Autophagy in Human Skin Fibroblasts

Barbara Hochecker, Hochschule Albstadt-Sigmaringen, Germany

4. Protective Effects of Sulforaphane Against UVA-Induced Photoaging In Mouse Skin via Downregulation of Mmp-1

Phetthinee Muanjumpon, Mahidol University, Thailand

5. Influence of Spermidine on DNA-repair and Gene Expression in Human Skin Fibroblasts

Melanie Scherer, Albstadt-Sigmaringen University, Germany

6. Dermatological Potential of Rubus Caesius L. Extracts

Anna Hering, Gdański Uniwersytet Medyczny, Poland

7. Insights on the Usage of Natural Phenolics in Anti-aging Products

Ana Jesus, University of Porto, Portugal

8. Tectorigenin, A Non-Retinol Retinoic Acid Receptor- γ Selective Agonist, Effectively Inhibits Skin Photodamage

Caibin Zhu, Shanghai Cheermore Biotech Co. Ltd, China (Online)

9. *Anredera Cordifolia* (Ten.) is Capable of Positively Modulating Healing: An In Vitro Study on Diabetic Wound Model

Fernanda Barbisan, Universidade Federal De Santa Maria, Brazil (Online)