

12TH International Congress on

VIRTUAL CONGRESS

SKIN AGEING & CHALLENGES

RECENT ADVANCES & INNOVATIONS




INTERNATIONAL
SOCIETY OF
MICROBIOTA

NOVEMBER 10-12, 2021

Dear Colleagues,

The scientific committee is delighted to announce to you their newest edition concerning Skin Topics. The 12th International Conference on **Skin Ageing and Challenges** will be held on November 10-12, 2021, in Lisbon & Virtually. Skin Challenges 2021 is organized under the patronage of the International Society of Microbiota (ISM).

Kindly note that all communications and talks will be recorded and will be added on our platform.

Regardless of the fact that the conference will be partly held online, we promise to keep you entertained with our educational sessions delivered by the best speakers.

During Skin Challenges 2021, 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?

As in previous years, a strong focus will be again to foster the exchange between academia, basic research and industry, and applied research. We will also provide more time and space to present the recent innovations, biotechnology products and devices.

During both days, many oral and poster communications will be presented and will cover many hot topics. A workshop dedicated to [Skin Microbiota](#) will be organized on November 10 2021. Among the sessions that will be discussed:

- *Skin Ageing, Regeneration & Wound Healing – State of the Art & Perspectives*
- *Skin Microbiota – Recent Scientific Advances*
- *Lifestyle, Diet and Skin Ageing: The Inside Beauty*
- *Artificial Intelligence & Skincare*
- *Skin Challenges 2021 Innovations*

As always, we are very much looking forward to meeting you in-person & online.



Prof. Jean Krutmann,
President of Skin Ageing & Challenges 2021,
IUF – Leibniz Research Institute for
Environmental Medicine,
Leibniz, Germany

SKIN AGEING & CHALLENGES

November 10-12, 2021 - Lisbon & Online



Skin Ageing & Challenges 2021 Sessions

- Skin Ageing, Regeneration & Wound Healing – State of the Art & Perspectives
 - Skin Microbiota – Recent Scientific Advances
 - Lifestyle, Diet and Skin Ageing : The Inside Beauty
 - Artificial Intelligence & Skincare
 - Skin Challenges 2021 Innovations

SPEAKERS 2021 - Skin Ageing & Challenges



Skin Aging and Fibroblast Features with a Focus on Mechanical Forces

Laurence Michel,
Hôpital Saint Louis, Paris, France



Pollution and Skin: Advances and Perspectives

Laurent Marrot,
Hôpital Saint Louis, Paris, France



Ironing Out Skin Photoageing with Multi-Functional Bio-Inspired Molecules

Charareh Pourzand,
University of Bath, United Kingdom
UV Exposure, a Major Skin Ageing Factor



Jean-François Doré,
Emeritus Research Director at INSERM, France



How to Collect Skin Bacterial Flora on Fragile Skin: Practical Aspects of Medical Film Dressings and Strategies

Shigefumi Okamoto,
Kanazawa University, Japan



A Single-Cell Transcriptomic Atlas of Human Skin Ageing

Weiqi Zhang,
Chinese Academy of Sciences, China



Advancements of Electronic Bandage for Accelerated Skin Wound Healing

Xudong Wang,
University of Wisconsin-Madison, USA



Ethnic Skin Ageing

Paul Matts,
Victor Mills Research Fellow at Procter & Gamble, USA



Challenges of Covid-19 Pandemic for Dermatology

Uwe Wollina,
Academic Teaching Hospital, Germany



Early Melanoma Invasivity Correlates with Gut Fungal and Bacterial Profiles: the Gut Microbiome Skin Connection

Duccio Cavalieri,
University of Florence, Italy



Dysbiosis on the Healed Site of Pressure Injuries: Possible Implication for Pressure Injury Recurrence

Kazuhiro Ogai,
Kanazawa University, Japan



Human Skin Aging is Associated with Increased Expression of the Histone Variant H2A.J in the Epidermis

Claudia E. Rube,
Saarland University Hospital, Germany



Effects of Iron-Rich Diets, Cigarette Smoking, Color Cosmetics, and Genetic Disease such as Hemochromatosis and Hemophilia Impact on Skin Aging

Xi Huang,
i-On Skincare, USA

Halal Cosmetic: Concept and Challenges



Fatin Nur Majdina Nordin,
University Malaya Halal Research Centre, Malaysia



MicroRNAs as Attractive Biological Targets for Cutaneous Remodeling

Elodie Henriot,
CNRS, University of Orléans, France



Updated Treatment for Acne: Targeted Therapy Based on Pathogenesis

Ichiro Kurokawa,
Meiwa Hospital, Japan



Targeting Cellular Senescence Based on Interorganellar Communication, Multilevel Proteostasis, and Metabolic Control

Maria Amália Cavinato Nascimento,
Leopold Franzens Universität Innsbruck, Austria



Skin Ageing: It's Structural Basis and Why It Matters

George F. Murphy,
Harvard Medical School, USA



Granzymes in Epithelial Barrier Disruption and Disease

David Granville,
University of British Columbia, Canada

Key Dates to Remember

16
Sep

Early Bid
Registration

19
Oct

Oral
Presentation

25
Oct

Poster
Presentation

www.skin-challenges.com

SKIN AGEING & CHALLENGES

November 10-12, 2021 - Lisbon & Online



12nd International Conference on

Skin Ageing & Challenges 2021

November 10-12, 2021 – Lisbon, Portugal, & Online

November 10, 2021

How to Evaluate Skin Microbiota 2021 Workshop?

9h00 am – 1h00 pm

- *General introduction to the skin microbiota*
- *Involvement of the microbiota in skin pathologies*
- *How to study microbiota and skin microbiota?*
- *The manipulation of microbial communities*
- *How to prepare and launch your range of cosmetic products?*



Florence Abdallah,
University of Paris Sud – INSERM 1184, France

For full agenda, registration, and information, please follow this link

SKIN WORKSHOP



Congress Programme Day 1: November 11, 2021

Welcome Note & Introduction Remarks

9:00 am



Prof. Jean Krutmann,

President of Skin Challenges 2021, Leibniz Research Institute for Environmental Medicine, Germany

Session 1: Skin Ageing, Regeneration & Wound Healing – State of the Art & Perspectives

9:10 am



Skin Ageing: It's Structural Basis and Why It Matters

George F. Murphy, Harvard Medical School, USA

09:40 am



A Single-Cell Transcriptomic Atlas of Human Skin Ageing

Weiqi Zhang, Chinese Academy of Sciences, China

10:10 am



Ethnic Skin Ageing

Paul Matts, Victor Mills Research Fellow at Procter & Gamble, USA

10:40 am



Dysbiosis on the Healed Site of Pressure Injuries: Possible Implication for Pressure Injury Recurrence

Kazuhiro Ogai, Kanazawa University, Japan

11:10 am

Coffee Break

11:30 am



MicroRNAs as Attractive Biological Targets for Cutaneous Remodeling

Elodie Henriet, CNRS, University of Orléans, France

12:30 pm



Targeting Cellular Senescence Based on Interorganelle Communication, Multilevel Proteostasis, and Metabolic Control

Maria Amália Cavinato Nascimento, Leopold Franzens Universität Innsbruck, Austria

1:00 pm

Short Oral Presentations

SKIN AGEING & CHALLENGES

November 10-12, 2021 - Lisbon & Online



1:30 pm

Lunch Break

2:30 pm



Challenges of COVID-19 pandemic for dermatology

Uwe Wollina, Academic Teaching Hospital, Germany

3:00 pm



Skin Aging and Fibroblast Features with a Focus on Mechanical Forces

Laurence Michel, Hôpital Saint Louis, Paris, France

3:30 pm



Human Skin Aging is Associated with Increased Expression of the Histone Variant H2A.J in the Epidermis

Claudia E. Rübe, Saarland University Hospital, Germany

4:00 pm



Granzymes in Epithelial Barrier Disruption and Disease

David Granville, University of British Columbia, Canada

4:30 pm

Short Oral Presentations (6 slots)

5:30 pm

Coffee Break

Session 2: Skin Microbiota – Recent Scientific Advances

5:45 pm



New Results for the Skin Microbiome Study

Shigefumi Okamoto, Institute for Frontier Science Initiative, Kanazawa University, Japan

6:15 pm



Early Melanoma Invasivity Correlates with Gut Fungal and Bacterial Profiles: The Gut Microbiome Skin Connection

Duccio Cavalieri, University of Florence, Italy

6:45 pm

Short Oral Presentations (4 slots)

7:20 pm

End of the First Day





SKIN AGEING & CHALLENGES

November 10-12, 2021 - Lisbon & Online



Congress Programme Day 2: November 12, 2021

Session 3: Lifestyle, Diet and Skin Aging: The Inside Beauty

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|----------|--|
| 9:00 am |  Ironing Out Skin Photoageing with Multifunctional Bio-Inspired Molecules <i>Charareh Pourzand, University of Bath, United Kingdom</i> |
| 9:30 am |  UV Exposure – Major Skin Ageing Factor <i>Jean-François Doré, Emeritus Research Director at INSERM, France</i> |
| 10:00 am |  Effects of Iron-Rich Diets, Cigarette Smoking, Color Cosmetics, and Genetic Disease Such as Hemochromatosis and Hemophilia Impact on Skin Aging <i>Xi Huang, i-On Skincare, USA</i> |
| 10:30 am |  Pollution and Skin: Advances and Perspectives <i>Laurent Marrot, L'OREAL, France</i> |
| 11:00 am | Short Oral Presentations (6 Slots) |
| 12:00 pm | Coffee Break |

Session 4: Artificial Intelligence & Skincare

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| 12:15 pm | Speakers TBD |
| 1:15 pm | Lunch Break |
| 2:15 pm | Short Oral Presentations (3 slots) |

SKIN AGEING & CHALLENGES

November 10-12, 2021 - Lisbon & Online



Session 5: Skin Challenges 2021 Innovations

2:45 pm



Updated Treatment for Acne: Targeted Therapy Based on Pathogenesis

Ichiro Kurokawa, Meiwa Hospital, Japan

3:15 pm



Halal Cosmetic: Concept and Challenges

Fatin Nur Majdina Nordin, University Malaya Halal Research Centre, Malaysia

3:45 pm



Advancements of Electronic Bandage for Accelerated Skin Wound Healing

Xudong Wang, University of Wisconsin-Madison, USA

Short Oral Presentations (6 slots)

Exploring Hydroalcoholic Kiwiberry Leaves Extract as a New and Sustainable Cosmetic Ingredient

4:15 pm

Ana Margarida Silva, Polytechnic of Porto, Portugal

Chestnut Shells Eco-Friendly Extracts as Promising Anti-Aging Ingredients for Greener Cosmetic Formulations

Diana Pinto, Polytechnic of Porto, Portugal

5:15 pm

Awards

5:30 pm

End of Skin Ageing & Challenges 2021