

12TH International Congress on

LISBON & INTERACTIVE ONLINE

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



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

SKIN AGEING & CHALLENGES

November 10-12, 2021 - Lisbon & Online



12th International Conference on

SKIN AGEING & CHALLENGES

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Skin Ageing & Challenges 2021 Speakers



Senolytics: The Path to Translation
James Kirkland,
Mayo Clinic Robert and Arlene Kogod Center on Aging,
USA



Pollution and Skin: Advances and Perspectives
Laurent Marrot,
Hôpital Saint Louis, Paris, France



Ironing Out Skin Photoageing with Multi Functional Bio-Inspired Molecules
Chararah 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 Cavallieri,
University of Florence, Italy



Cutaneous Microbiome, Seborrheic Dermatitis and Skin Aging
Luba Prado Cortes,
Erasmus University, Rotterdam, the Netherlands



UV Radiation and the Microbiome of the Skin
Peter Wolf,
Medical University of Graz, Austria



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 Malaysia Halal Research Centre, Malaysia



MicroRNAs as Attractive Biological Targets for Cutaneous Remodeling
Elodie Henriet,
CNRS, University of Orléans, France



Updated Treatment for Acne: Targeted Therapy Based on Pathogenesis
Ichiro Kurokawa,
Meiwa Hospital, Japan



Targeting Cellular Senescence Based on Interganglionic 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



Skin Anti-Aging Effects of Resveratrol: Recent Studies and Perspective
Ciska Janssens-Böcker,
MedSkin Solutions Dr. Suwelack AG, Germany



Nanomaterials and Natural Compounds in Skin Regeneration and Rejuvenation
Margherita Maioli,
Department of Biomedical Sciences University of Sassari, Italy



www.skin-challenges.com



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

12:00 pm



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

Maria Amália Cavinato Nascimento, Leopold Franzens Universität Innsbruck, Austria

12:30 pm

Lunch Break



Short Oral Presentations (3 slots)

1:30 pm

Heterogenous Ribosomes in Human Dermal Fibroblast Senescence

Markus Schosserer, University of Natural Resources and Life Sciences, Austria

Study Of Oxidative Stress Under the True Oxygenation of The Skin, Physioxia

Nedira Chettouh-Hammas, Center for Molecular Biophysics, CNRS UPR 4301, France

2:00 pm



Senolytics: The Path to Translation

James Kirkland, Mayo Clinic Robert and Arlene Kogod Center on Aging, USA

2:30 pm



Challenges of COVID-19 pandemic for dermatology

Uwe Wollina, Academic Teaching Hospital, Germany

3:00 pm

Coffee Break

3:15 pm



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

Claudia E. Rube, Saarland University Hospital, Germany

3:45 pm



Granzymes in Epithelial Barrier Disruption and Disease

David Granville, University of British Columbia, Canada

4:15 pm



Polyamines: Essential Regulators of Epidermal Function

Leah Vardy, Skin Research Institute of Singapore, Singapore

4:45 pm

Short Oral Presentations (3 slots)

Keratin-Biphalin Scaffold Accelerate Skin Wound Healing in Diabetic Mice





Marek Konop, Medical University of Warsaw, Poland

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Session 2 : Skin Microbiota – Recent Scientific Advances

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|---------|--|
| 5:15 pm |  New Results for the Skin Microbiome Study
<i>Shigefumi Okamoto, Institute for Frontier Science Initiative, Kanazawa University, Japan</i> |
| 5:45 pm |  Early Melanoma Invasivity Correlates with Gut Fungal and Bacterial Profiles:
The Gut Microbiome Skin Connection
<i>Duccio Cavalieri, University of Florence, Italy</i> |
| 6:15 pm |  Cutaneous Microbiome, Seborrheic Dermatitis and Skin Aging
<i>Luba Prado Cortes, Erasmus University in Rotterdam, the Netherlands</i> |
| 6.45 pm |  UV Radiation and the Microbiome of the Skin
<i>Peter Wolf, Medical University of Graz, Austria</i> |
| 7:15 pm | Short Oral Presentations (4 slots) |
| 8:15 pm | End of the First Day |





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Congress Programme Day 2: November 12, 2021

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

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 pm	Coffee Break
11:00 am	 Pollution and Skin: Advances and Perspectives <i>Laurent Marrot, L'OREAL, France</i>
11:30 am	Short Oral Presentations (6 Slots)
12:30 pm	Lunch Break

Session 4: Artificial Intelligence & Skincare

1:30 pm	Speakers TBD
2:30 pm	Short Oral Presentations (3 slots)



Session 5: Skin Challenges 2021 Innovations

3:00 pm



Updated Treatment for Acne: Targeted Therapy Based on Pathogenesis

Ichiro Kurokawa, Meiwa Hospital, Japan

3:30 pm

Coffee Break

3:45 pm



Halal Cosmetic: Concept and Challenges

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

4:15 pm



Advancements of Electronic Bandage for Accelerated Skin Wound Healing

Xudong Wang, University of Wisconsin-Madison, USA

4:45 pm



Skin Anti-Aging Effects of Resveratrol: Recent Studies and Perspective

Ciska Janssens-Böcker, MedSkin Solutions Dr. Suwelack AG, Germany

5:15 pm



Nanomaterials and Natural Compounds in Skin Regeneration and Rejuvenation

Margherita Maioli, Department of Biomedical Sciences, University of Sassari, Italy

Short Oral Presentations (6 slots)

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

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

5:45 pm

Mitochondria-Targeted Antioxidants Based on Hydroxycinnamic and Hydroxybenzoic Acids as Potential Candidates to Prevent Skin Ageing

José Feliciano Duarte, Mitotag, Portugal

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Hybrid Layer of Chitosan-TiO₂-Hyaluronic Acid as a Potential Wound Dressing/Skin Substitute

Agnieszka Ewa Wiącek, Maria Curie-Skłodowska University, Portugal

6:45 pm

Awards

7:00 pm

End of Skin Ageing & Challenges 2021