

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

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

SKIN AGEING & CHALLENGES

November 10-12, 2021 - Lisbon & Online



12th International Conference on
SKIN AGEING & CHALLENGES
November 10-12, 2021 - Lisbon & Online

Skin Ageing & Challenges 2021 Speakers

 <p>Senolytics: The Path to Translation James Kirkland, Mayo Clinic Robert and Arlene Kogod Center on Aging, USA</p>	 <p>Dysbiosis on the Healed Site of Pressure Injuries: Possible Implication for Pressure Injury Recurrence Kazuhiro Ogai, Kanazawa University, Japan</p>
 <p>Pollution and Skin: Advances and Perspectives Laurent Marrot, Hôpital Saint Louis, Paris, France</p>	 <p>Human Skin Aging is Associated with Increased Expression of the Histone Variant H2A.J in the Epidermis Claudia E. Rube, Saarland University Hospital, Germany</p>
 <p>Ironing Out Skin Photoageing with Multi Functional Bio-Inspired Molecules Charareh Pourzand, University of Bath, United Kingdom</p>	 <p>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</p>
 <p>UV Exposure, a Major Skin Ageing Factor Jean-François Doré, Emeritus Research Director at INSERM, France</p>	 <p>Halal Cosmetic: Concept and Challenges Fatin Nur Majidina Nordin, University Malaya Halal Research Centre, Malaysia</p>
 <p>How to Collect Skin Bacterial Flora on Fragile Skin: Practical Aspects of Medical Film Dressings and Strategies Shigefumi Okamoto, Kanazawa University, Japan</p>	 <p>MicroRNAs as Attractive Biological Targets for Cutaneous Remodeling Elodie Henriot, CNRS, University of Orléans, France</p>
 <p>A Single-Cell Transcriptomic Atlas of Human Skin Ageing Weiqi Zhang, Chinese Academy of Sciences, China</p>	 <p>Updated Treatment for Acne: Targeted Therapy Based on Pathogenesis Ichiro Kurokawa, Meiwa Hospital, Japan</p>
 <p>Advancements of Electronic Bandage for Accelerated Skin Wound Healing Xudong Wang, University of Wisconsin-Madison, USA</p>	 <p>Targeting Cellular Senescence Based on Interorganelle Communication, Multilevel Proteostasis, and Metabolic Control Maria Amália Cavinato Nascimento, Leopold Franzens Universität Innsbruck, Austria</p>
 <p>Ethnic Skin Ageing Paul Matts, Victor Mills Research Fellow at Procter & Gamble, USA</p>	 <p>Skin Ageing: It's Structural Basis and Why It Matters George F. Murphy, Harvard Medical School, USA</p>
 <p>Challenges of Covid-19 Pandemic for Dermatology Uwe Wollina, Academic Teaching Hospital, Germany</p>	 <p>Granzymes in Epithelial Barrier Disruption and Disease David Granville, University of British Columbia, Canada</p>
 <p>Early Melanoma Invasivity Correlates with Gut Fungal and Bacterial Profiles: the Gut Microbiome Skin Connection Duccio Cavalleri, University of Florence, Italy</p>	 <p>Skin Anti-Aging Effects of Resveratrol: Recent Studies and Perspective Ciska Janssens-Böcker, MedSkin Solutions Dr. Suwelack AG, Germany</p>
 <p>Cutaneous Microbiome, Seborrheic Dermatitis and Skin Aging Luba Prado Cortes, Erasmus University, Rotterdam, the Netherlands</p>	 <p>Nanomaterials and Natural Compounds in Skin Regeneration and Rejuvenation Margherita Maioli, Department of Biomedical Sciences University of Sassari, Italy</p>
 <p>UV Radiation and the Microbiome of the Skin Peter Wolf, Medical University of Graz, Austria</p>	 <p>Polyamines: Essential Regulators of Epidermal Function Leah Vardy, Skin Research Institute of Singapore, Singapore</p>

www.skin-challenges.com


SKIN AGEING & CHALLENGES

November 10-12, 2021 - Lisbon & Online



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

T Cells with Dysfunctional Mitochondria Induce Premature Skin Aging

Elisa Carrasco, Universidad Autónoma de Madrid, Spain

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. Rübe, 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

UVA Photoprotective Effect of Adenine Derivate Kinetin and its Derivatives on Normal Human Dermal Fibroblasts

Denisa Skarupova, Palacký University Olomouc, Czech Republic

Cream for Skin Barrier Restoration

Eva Moreino, Riga Stradins University, Latvia

Session 2 : Skin Microbiota – Recent Scientific Advances

5:15 pm



New Results for the Skin Microbiome Study

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

5:45 pm



Early Melanoma Invasivity Correlates with Gut Fungal and Bacterial Profiles:

The Gut Microbiome Skin Connection

Duccio Cavalieri, University of Florence, Italy

6:15 pm



Cutaneous Microbiome, Seborrheic Dermatitis and Skin Aging

Luba Prado Cortes, Erasmus University in Rotterdam, the Netherlands

6:45 pm



UV Radiation and the Microbiome of the Skin

Peter Wolf, Medical University of Graz, Austria

7:15 pm

Short Oral Presentations (2 slots)





7:25 pm

End of the First Day



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>
	Short Oral Presentations (6 Slots)
11:30 am	Reduction of the Skin Biological Age and Improvement in Skin Health Markers by a Senotherapeutic Peptide <i>Juliana Lott, Catholic University of Brasilia, Brazil</i>
	Cigarette Smoke and Sunlight: A Synergistic Effect on Keratinocytes <i>Alexe Grenier, Université Laval, Canada</i>
12:30 pm	Lunch Break

SKIN AGEING & CHALLENGES

November 10-12, 2021 - Lisbon & Online



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

Ali Shahmoradi, 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)

5:45 pm

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

SKIN AGEING & CHALLENGES

November 10-12, 2021 - Lisbon & Online



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

José Feliciano Duarte, Mitotag, Portugal

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

Agnieszka Ewa Wiącek, Maria Curie-Skłodowska University, Poland

Diagnostic In Vivo Covid 19 Virus Antibody Sensing by Using Synthetic Mimic Skin Tattoo Virtual Circuit

Sihyun Jun, Biosensor Research Institute Seoul Korea, Korea

In Vivo Bio Assay of Artificial Skin Sensor for SARS Virus Detection

Dong Ho Kim, Korea Institute of Radiological and Medical Sciences, Korea

Voltammetric Corona Virus Detection using Antigen Antibody Ionic Skin Sensor

Hyeon Jeong Park, Biosensor Research Institute Seoul Korea, Korea

Tattoo Skin Sensing for Biological In Vitro and In Vivo Assay

Katlynn Ryu, Joongbu University Department of Bio-Cosmetics, Korea

6:45 pm

Awards

7:00 pm

End of Skin Ageing & Challenges 2021