

12TH International Congress on

INTERACTIVE ONLINE 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, as an Interactive Online meeting, with sessions dedicated to Live Discussion with speakers and attendees. 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*
- *Skin Challenges 2021 Innovations*

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



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 - Virtual Interactive Congress



12nd International Conference on

Skin Ageing & Challenges 2021

November 10-12, 2021 – Interactive Online Conference

November 10, 2021

How to Evaluate Skin Microbiota 2021 Workshop?

2h00 pm – 5h30 pm Paris Time

- *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, Workshop Report, and information, please follow this link

[SKIN WORKSHOP](#)

SKIN AGEING & CHALLENGES

November 10-12, 2021 - Virtual Interactive Congress



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
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



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



Skin Aging in Indians Living in Highly Polluted Areas
Pia Jahan,
IUF-Leibniz Research Institute for Environmental Medicine,
Germany



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



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



Polyamines: Essential Regulators of Epidermal Function
Leah Vardy,
Skin Research Institute of Singapore, Singapore



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

11:20 am



MicroRNAs as Attractive Biological Targets for Cutaneous Remodeling

Elodie Henriet, CNRS, University of Orléans, France

11:50 am

Recorded



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

Maria Amália Cavinato Nascimento, Leopold Franzens Universität Innsbruck, Austria

12:20 pm **Study of Oxidative Stress Under the True Oxygenation of The Skin, Physioxia**
Nedira Chettouh-Hammas, Center for Molecular Biophysics, CNRS UPR 4301, France

12:30 pm

Lunch Break

12:40 pm



Senolytics: The Path to Translation

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

1:10 pm



Challenges of COVID-19 pandemic for dermatology

Uwe Wollina, Academic Teaching Hospital, Germany

1:40 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

2:10 pm
Recorded



Granzymes in Epithelial Barrier Disruption and Disease

David Granville, University of British Columbia, Canada

2:40 pm



Polyamines: Essential Regulators of Epidermal Function

Leah Vardy, Skin Research Institute of Singapore, Singapore

Session 2 : Skin Microbiota – Recent Scientific Advances

3:10 pm



New Results for the Skin Microbiome Study

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

3:40 pm



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

Duccio Cavalieri, University of Florence, Italy

4:10 pm
Live



Cutaneous Microbiome, Seborrheic Dermatitis and Skin Aging

Luba Prado Cortes, Erasmus University in Rotterdam, the Netherlands

4.40 pm



UV Radiation and the Microbiome of the Skin

Peter Wolf, Medical University of Graz, Austria

5:10 pm

Coffee Break

Poster Presentations

Available on the platform at your convenience

Lipophilic Yeasts as Etiological Factors of Pityriasis Versicolor and Components of Typical Skin Mycobiome – Case Study

Mariusz Dyląg, University of Wrocław, Poland

Photopollution Aging Model Exacerbates Mitochondrial Damage, Metalloproteinase Expression and Dermis Fibers Disorganization

Lena Guerrero-Navarro, Innsbruck University - Research Institute for Biomedical Aging Research, Austria

Keratin-Butyrate Scaffolds Accelerate Skin Wound Healing in Diabetic Rats

Piotr Konopelski, Medical University of Warsaw, Poland

5:20 pm – 7:00 pm Paris time

Interactive Live Discussion & Networking of Day 1

Dedicated to Questions & Networking with All Speakers

7:00 pm – End of Day 1





SKIN AGEING & CHALLENGES

November 10-12, 2021 - Virtual Interactive Congress



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**
Charareh Pourzand, University of Bath, United Kingdom
- 9:30 am  **UV Exposure – Major Skin Ageing Factor**
Jean-François Doré, Emeritus Research Director at INSERM, France
- 10:00 am  **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
- 10:30 am  **Pollution and Skin: Advances and Perspectives**
Laurent Marrot, L'OREAL, France
- 11:00 am **Skin Aging in Indians Living in Highly Polluted Areas**
Pia Jahan, IUF-Leibniz Research Institute for Environmental Medicine, Germany
- 11:30 am **Coffee Break**

Session 4: Skin Challenges 2021 Innovations

- 11:40 am  **Updated Treatment for Acne: Targeted Therapy Based on Pathogenesis**
Ichiro Kurokawa, Meiwa Hospital, Japan
- 12:10 pm  **Advancements of Electronic Bandage for Accelerated Skin Wound Healing**
Xudong Wang, University of Wisconsin-Madison, USA

12:40 pm



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

Ali Shahmoradi, MedSkin Solutions Dr. Suwelack AG, Germany

1:10 pm



Halal Cosmetic: Concept and Challenges

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

1:40 pm



Nanomaterials and Natural Compounds in Skin Regeneration and Rejuvenation

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

2:10 pm

Coffee Break

2:20 pm – 4:30 pm

Short Oral Presentations

Reduction of the Skin Biological Age and Improvement in Skin Health Markers by a Senotherapeutic Peptide

Juliana Lott, Catholic University of Brasilia, Brazil

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

Ana Margarida Silva, Polytechnic of Porto, Portugal

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

Agnieszka Ewa Wiącek, Maria Curie-Skłodowska University, Poland

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

Diana Pinto, Polytechnic of Porto, Portugal

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

T Cells with Dysfunctional Mitochondria Induce Premature Skin Aging

Elisa Carrasco, Universidad Autónoma de Madrid, Spain

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

José Feliciano Duarte, Mitotag, Portugal

Cream for Skin Barrier Restoration

Eva Moreino, Riga Stradins University, Latvia

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

4:30 pm – 6:00 pm Paris time

Interactive Live Discussion & Networking of Day 2

Dedicated to Questions & Networking with All Speakers

6:00 pm – End of Skin Ageing & Challenges 2021