

12<sup>TH</sup> 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



12<sup>nd</sup> 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 Cavaliere,**  
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**

**Fatim Nur Majidina Nordin,**  
University Malaya 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 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



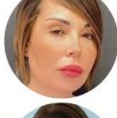
**Granzymes in Epithelial Barrier Disruption and Disease**

**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

Recorded



**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

Live



**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

Recorded



**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

Recorded



**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 Pardo 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*

Intracellular Delivery of Nuclear Localization Signal Alleviates Atopic Dermatitis by Regulating the Pathological Immune Environment

*Jaehyeon Kim, Cellivery Therapeutics, Inc., South Korea*

Keratin-Butyrate Scaffolds Accelerate Skin Wound Healing in Diabetic Rats

*Piotr Konopelski, Medical University of Warsaw, Poland*

Development of Portable Raman Spectroscopy as a Clinic Tool for Assessing Photodamage in Skin

*Ira Mautner, University of Auckland, New Zealand*

The Effects of Genistein on Skin Ageing and Disorders in Women After Breast Cancer Treatment

*Magda Pawlicka, Medical University of Lublin, Poland*

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

*Denisa Skarupova, Palacký University Olomouc, Czech Republic*

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**





## Congress Programme Day 2: November 12, 2021

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

- |                      |                                                                                     |                                                                                                                                                                                               |
|----------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9:00 am<br>Recorded  |    | <b>Ironing Out Skin Photoageing with Multifunctional Bio-Inspired Molecules</b><br><i>Charareh Pourzand, University of Bath, United Kingdom</i>                                               |
| 9:30 am              |    | <b>UV Exposure – Major Skin Ageing Factor</b><br><i>Jean-François Doré, Emeritus Research Director at INSERM, France</i>                                                                      |
| 10:00 am<br>Recorded |   | <b>Effects of Iron-Rich Diets, Cigarette Smoking, Color Cosmetics, and Genetic Disease Such as Hemochromatosis and Hemophilia Impact on Skin Aging</b><br><i>Xi Huang, i-On Skincare, USA</i> |
| 10:30 am             |  | <b>Pollution and Skin: Advances and Perspectives</b><br><i>Laurent Marrot, L'OREAL, France</i>                                                                                                |
| 11:00 am<br>Live     |  | <b>Skin Aging in Indians Living in Highly Polluted Areas</b><br><i>Pia Jahan, IUF-Leibniz Research Institute for Environmental Medicine, Germany</i>                                          |
| 11:30 am             |                                                                                     | <b>Coffee Break</b>                                                                                                                                                                           |

### Session 4: Skin Challenges 2021 Innovations

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



12:40 pm



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

*Ali Shahmoradi, MedSkin Solutions Dr. Suwelack AG, Germany*

1:10 pm

Recorded



### **Halal Cosmetic: Concept and Challenges**

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

1:40 pm

Recorded



### **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 – 4:40 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*

Daylight Defense with Innovative Bioactive Sphingolipid

*Jennifer Schild, Evonik Operations GmbH, Germany*

Hybrid Layer of Chitosan-TiO<sub>2</sub>-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*

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**