12 TH 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

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?

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, Workshop Report, and information, please follow this link

SKIN WORKSHOP

12th International Conference on

SKIN AGEING & CHALLENGES

November 10-12, 2021 - Lisbon & Online

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

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. Rübe,
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 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 Interorganelle 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

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

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**

11:20 am

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

11:50 am

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

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

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 Wroclaw, Poland*

The Role of Melanocytes in Skin Pigmentation, Senescence, and Skin Aging Induced by Exposure to Environmental Stressors
***Ines Martic**, University of Innsbruck – Institute for Biomedical Aging Research, Austria*

Development of Portable Raman Spectroscopy as a Clinic Tool for Assessing Photodamage in Skin
***Ira Mautner**, University of Auckland, New Zealand*

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

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 – 4:20 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-TiO_2-Hyaluronic Acid as a Potential Wound Dressing/Skin Substitute
***Agnieszka Ewa Wiącek**, Maria Curie-Skłodowska University, Poland*

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