

15TH INTERNATIONAL CONFERENCE

Skin Ageing & Challenges

Agenda



Skin
CHALLENGES



November 5-6, 2024 - Malta

International Society
of **Microbiota**

Agenda of
Skin Ageing & Challenges 2024

November 5-6, 2024 – Corinthia Palace, Malta

Day 1 - November 5, 2024

8h00 – Materials Distribution

8h50 – Skin Ageing & Challenges 2024: Introduction

Jean Krutmann, President of Skin Ageing & Challenges 2024, Leibniz Research Institute for Environmental Medicine

Marvin Edeas, Chairman of the Scientific Board, Institut Cochin, INSERM U1016, Université de Paris, France

**Session 1: Advances in Understanding Skin Ageing:
Latest Discoveries and Mechanistic Explorations**

Chairpersons: Karin Scharffetter-Kochanek and Marvin Edeas



9h00 **Reversing Skin Aging: The Power of Senomorphics and Senolytics**
Karin Scharffetter-Kochanek, Universitätsklinikum Ulm, Germany



9h30 **Substances Promising Active Skin Rejuvenation Effectively Support Fast Skin Wound Healing**
Andrey Koptuyug, Mid Sweden University, Sweden

10h00 **Short Oral Presentations**

A Groundbreaking Intervention Effectively Reduces Senescence in Old Primary Cells by Targeting a New Hallmark of Ageing

Adam Clauss, SENISCA Ltd, United Kingdom

Selcopintide as a Novel Therapeutic Agent to Combat Oxidative Stress and Promote Skin Health

Yeoung-Hyun Park, Hyesensbio, South Korea

New Life for *Vitis vinifera* L. Leaves Extracts through Probiotic-Mediated Fermentation: Investigating their Antimicrobial Potential towards Methicillin-Resistant *Staphylococcus aureus*

Marta Armari, Università del Piemonte Orientale, Italy

10h30 – Coffee Break, Networking, & Poster Session



11h15 The Epitranscriptome and snoRNAs in Cellular Senescence and Skin Aging
Markus Schosserer, Medical University of Vienna, Austria



11h45 Iron Metabolism of the Skin: Recycling versus Release
Leopold Eckhart, Medical University of Vienna, Austria

12h15 Short Oral Presentations

Mitochondria-Permeable Natural Antioxidants with Potent Iron Chelating Activity for Skin Photoprotection

Charareh Pourzand, University of Bath, United Kingdom

Induction of Ferroptosis in Normal Human Dermal Fibroblasts: Implications for Skin Disease Pathology and Molecular Mechanisms

Magdalena Węgrzyn, Silesian University of Technology, Poland

12h35 – Lunch Break, Networking, & Poster Session

Chairpersons: Andrey Koptuyug and Leopold Eckhart



14h00 Mitochondria: The Reversible Regulators of Aging Skin
Keshav K Singh, University of Alabama at Birmingham, USA



14h30 Exploring Mitochondrial Dynamics and Transfer: Implications for Skin Aging and Novel Therapeutic Approaches
Andrés Caicedo, Universidad San Francisco de Quito, Ecuador



15h00 Mitophagy and Extracellular Vesicles: Mechanisms of Mitochondrial Quality Control in Skin Aging
Ines Martić, Universität Innsbruck, Austria

15h30 – Coffee Break, Networking, & Poster Session

16h00 Short Oral Presentations

Raman Fingerprints & Non-Invasive Methods to Evaluate Skin Aging
Markus Schosserer, Medical University of Vienna, Austria

Real-time QCM-D Monitoring of Enzymatic Degradation of Key Extracellular Matrix Proteins
Michał Szczepanczyk, Malmö University, Sweden

16h30 – 17h30

Selected Poster Presentations – Flash Talks

1. Correlation between Total Polyphenols and Total Flavonoids with Antioxidant Activity of *Chaenomeles japonica* Fruit Extract (Japanese Quince Fruit) and its Potential Use for Cosmetic Purposes
Ewelina Błońska-Sikora, Jan Kochanowski University of Kielce, Poland

2. Exposure of Skin Fibroblasts to Decellularized Extracts from Human Umbilical Cord Tissue Enhances Migration, Proliferation, and Metabolic Activity
Andrés Caicedo, Universidad San Francisco de Quito USFQ, Ecuador

3. Regulation of Iron Homeostasis and Ferroptosis: Role of IRP2 in CRISPR-Modified Keratinocytes
Łukasz Cieniela, Silesian University of Technology, Poland

4. Fibro-Caps, a 3D Model Mimicking Alterations of a Fibrotic Microenvironment on the Metabolism of Human Mature Adipocytes
Shalina Hassanaly, Caudalie, France

5. Extracts of *Nasturtium officinale* R. Br. Microshoot Cultures as a Potential Cosmetic Material with Anti-Elastase, Antioxidant and Antimicrobial Activity
Marta Klimek-Szczykutowicz, Jan Kochanowski University of Kielce, Poland

6. Evaluation of Bioactive Properties and Phenolic Compounds in Different Extracts Prepared from *Salvia officinalis* L. and its Potential Cosmetic Activities
Ewelina Błońska-Sikora, Jan Kochanowski University of Kielce, Poland

7. Suppression of Thioredoxin Reductase 1 in Keratinocyte Cell Line as a Key Regulator of the Nrf2 Pathway

Jakub Pawlikowski, Silesian University of Technology, Poland

8. Long-Term Skin Tissue Maintenance for the Benefit of Product Efficiency

Fanny Richard, Chanel Parfums Beauté, France

9. Anti-Aging Potential of Three Algae Extracts Based Products Accessed with *in vitro* / *ex vivo* Techniques

Michał Rachalewski, Dr Irena Eris S.A., Poland

10. Development of Sustainable Cosmetic Ingredients via *Vitis vinifera* Leafs Extract Fermentation

Aurora Tritto, Roelmi HPC Srl, Italy

11. Polydopamine-Loaded Prunetin Nanomaterials Activate DRD2 to Reduce UV-Induced Oxidative Stress by Stabilizing and Promoting Nrf2 Nuclear Translocation

Caibin Zhu, Shanghai Cheermore Biotech Co., China

12. Postbiotic Metabolites Produced through Extreme Conditions Fermentation Impacts Skin Brain Axis via Skin Microbiome Modulation, to Promote Relaxation

Céline Klotz, Sethic Innovation Labo, Japan

17h30 – **Discussion with Speakers & Participants**

18h00 – **End of Day 1**

20h00 – **Meet the Speakers' Dinner** (*Optional Ticketed Event*)



Day 2 - November 6, 2024

Session 2: Industrial and Academic Innovations: The Challenge of Translation

Chairpersons: Reinhold Dauskardt and Andrés Caicedo



9h00 **Olfactory Receptors: Outsider or Misunderstood Key Strategic Player?**
Marvin Edeas, Institut Cochin, INSERM U1016, Université de Paris, France



9h30 **Olfactory Receptors, Skin and Keratinization: What do we Know?**
Shinobu Nakanishi, Shiseido Co., Japan

10h00 **Short Oral Presentations**

Mono-Glucosylation of Epigallocatechin Gallate Enhances Skin Penetration and Triggers Skin and Microbiota Whitening-Related Pathways

Moencopi Bernheim-Dennery, Givaudan Active Beauty, France

Going Beyond: Retinol-Like Efficacy of Sphingolipid Salicyloyl Phytosphingosine

Jeremie Nestor, Evonik Skin Institute, Spain

10h30 – Coffee Break, Networking, & Poster Session



11h15 **Sex and Race Variations in Skin Structure and Barrier Function: Relationship to Ageing and Sensorial Perception**

Reinhold Dauskardt, Stanford University, USA



11h45 **Innovative Thermal Imaging Techniques for Detecting Aging Disorders: ThermaFace Method**
Jing-Dong J. Han, Peking University, China

12h15 **Discussion with speakers**

12h30 – Lunch Break, Networking, & Poster Session

Chairpersons: Charareh Pourzand and Jean Krutmann



14h00 Development of Holistic Photographic Aging Biomarkers
Anastasia Georgievskaya, CEO of Haut.AI, Estonia



14h30 Age, Frailty and Infection Risk Reservoirs: The Skin Microbiome of Older Adults
Julia Oh, Duke University, USA

15h00 Short Oral Presentations

***Willaertia* Lysate: A Hydrobiome Biosourced Ingredient with Multi-Site Antioxidative and Antiaging Properties**

Sandrine Troussieux, Amoéba, France

Indole-3-Acetic Acid, A Product of the Skin Microbiome, and its Effects on the Skins

Ilona Matějková, Contipro, Czech Republic

Regulation of Ferroptosis in Tumor and Normal Cells: Implications for Therapeutic Strategies in Melanoma Treatment

Małgorzata Adamiec-Organisiok, Silesian University of Technology, Poland

***Plantago lanceolata*-Derived Extracellular Vesicles: A Powerful Strategy for Skin Regeneration**

Annalisa Tito, Arterra Bioscience SpA

AA Promotes Youthful Skin through Collagen Network Reactivation

Tanisha Naiken, LVMH Recherche - Givenchy Skin Care, France

Comparative Efficacy of Skincare Products and Laser Procedures for Rosacea and Hyperpigmentation using Advanced Imaging Techniques, Exploring Potential AI Use Case

Sylvia Pawlaczyk, AV Laboratories, USA

Novel Application of a Modified Stem Cell Culture Medium Results in Improved Wound-Healing of Dermal Fibroblasts and Keratinocytes without Increasing Metabolism
Kristopher Hite, Virginia Tech, USA

Keratin-Acetate Dressing Accelerates Wound Healing in Diabetic Rats and Stimulates M2 Macrophages Polarization
Łukasz Mazurek, Medical University of Warsaw, Poland

16h20 – Awards & Concluding Remarks

16h30 – Drinks, Coffee and Snacks: Getting Together Networking

End of Skin Ageing & Challenges 2024

For more information: www.skin-challenges.com.

