

Agenda

16th International Congress

Skin
CHALLENGES

Rethinking Skin Ageing

November 11-12, 2025 - Valencia, Spain

International Society
of **microbiota**



16th International Congress Skin Ageing and Challenges

November 11 - 12, 2025 – Valencia, Spain

Agenda

Day 1 – November 11, 2025

8h00 Materials Distribution

8h50 Welcome Note of Skin Ageing & Challenges 2025



9h00 **Keynote Presentation**
Epigenetic Regulation of Skin Ageing-Associated Genes in Short-Lived and Long-Lived Mammals
Vladimir A. Botchkarev, Boston University School of Medicine, USA

Session 1: Senolytic & Senomorphic Agents: Impact on Rejuvenation

Chair: Karin Scharffetter-Kochanek



9h30 **Skin Senescence as a Driver of Whole-Body and Brain Ageing and How to Intervene**
Cláudia Cavadas, University of Coimbra, Portugal



10h00 **The Role of Natural Killer Cells in Skin Ageing – Perspective of a Novel Senolytic Approach**
Karin Scharffetter-Kochanek, Universitätsklinikum Ulm, Germany

10h30 - Coffee Break

Session 2: Innovative Approaches for Skincare and Longevity

Chair: Sebastian Iben



11h15 **Leveraging Circadian Plasma Proteomics to Detect Ageing-induced changes in Skin Architecture**
Thomas Mortimer, Institute for Research in Biomedicine, Spain



11h45 **Targeting Skin Cell Senescence: Approaches and Strategies**
Manuel Collado, Instituto de Investigación Sanitaria de Santiago de Compostela, Spain

12h15 Discussion

12h30 - Lunch Break



14h00 **Nanotechnology and Nanosystems: Detecting and Targeting Senescent Cells**
Ramon Martinez Mañez, Universidad Politécnica de Valencia, Spain



14h30 **Reprogramming Skin Aging: RNA Nanoparticles as Next-Generation Tools to Reverse Senescence and Restore Extracellular Matrix Homeostasis**
Sandra Freitas-Rodríguez, Nanovex Biotechnologies, Spain



15h00 **Impact of Biomechanical Changes on Skin Aging: Current Advances and Future Perspectives**
Costanza Giampietro, Empa Dübendorf and ETH Zürich, Switzerland

15h30 - Coffee Break

16h15 **Short oral communications**

Uncovering the Role of Gasdermin A in Human Skin
Marta Slafova, ETH Zurich, University Hospital Zurich, Switzerland

CLIC Proteins Provide Antioxidant Protection to Cultured Skin Cells
Stella M Valenzuela, University of Technology Sydney, Australia

Innovative Polymer Formulations to Protect and Sustain Probiotics in Dermocosmetic Creams
Ivana Repić, University of Zagreb, Croatia

Hormonal Harmony for Ageless Skin: Mapping the Estrogen–Testosterone–Cortisol Axis in Skin Aging
Rajoli Brahmananda Reddy, Vernon Skin & Hair Clinics, India

Mechanoresponsive Endothelial Cells Impede Skin Aging via Rectifying Retinoid Metabolism within the Fibroblast-Epidermal Axis
Jiangming Zhong, HBN Research Institute, Shenzhen Hujia Technology, China

Poster Communications

Development of an IA-Based Protein-Clock to Assess Epidermal Biological Age: Insights from Inspire-T Cohort
Patrick Bogdanowicz, Laboratoires Pierre Fabre, France

PM2.5 Delays Keratinocyte Migration Through Modulation of Matrix Metalloproteinases and NF-κB Signaling Cascades
Mutita Pluempreecha, Siriraj Hospital, Mahidol University, Thailand

Comparison of Different Human Keratinocyte Cell Lines for Modelling Skin Ageing in Two-Dimensional Cell Cultures and Organotypic Skin Equivalents
Koray Tav, Medical University of Vienna, Center for Pathobiochemistry and Genetics, Austria

ZN-Based Multi-Active Framework Nanoparticles TSA-CAN-ZN Inhibit Skin Glycation via Dual Blockade of HMGB1/RAGE and AGEs/RAGE Pathways
Caibin Zhu, Shanghai Cheermore Biotech Co., Ltd, China

17h15 **End of Day 1**

20h00 **Speakers Dinner**

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Day 2 – November 12, 2025

8h30 Registration

Session 3: Skin Ageing 2025: Recent Advances, Innovation and Mechanistic Insights

Chair: Cláudia Cavadas, Manuel Collado



9h00 **Targeting Staphylococcus Aureus: A Novel Therapeutic Approach for Skin Microbiome Recovery and Regeneration**

Mathew Hardman, Hull York Medical School, United Kingdom



9h30 **Protein Homeostasis and Aging: Advances, Detection and Innovations**

Sebastian Iben, Universitätsklinikum Ulm, Germany



10h00 **Targeting Skin Ageing with Bioactive Peptides: From Food Sources to Functional Evidence**

Andrea M. Liceaga, Purdue University, USA

10h30 - Coffee Break



11h15 **Targeting Mitochondrial Pathways and Keratinocyte–Fibroblast Crosstalk Mitigates UVB-Induced Skin Damage**

Uraiwan Panich, Mahidol University, Thailand



11h45 **A Novel Botanical Blend Targets Mitochondrial Nicotinamide Nucleotide Transhydrogenase to Synergistically Inhibit Melanogenesis and Attenuate Skin Aging**

Lieve Declercq, PROYA Cosmetics Co., Ltd., France

12h30 - Lunch Break

14h00 Innovation Showcase: Presentations from Nominated Innovations

Chair: Andrea M. Liceaga, Marvin Edeas

Each nominated team will present their innovation during the Innovation Showcase highlighting:

- How their work advances the understanding of skin ageing
- Its translational or clinical potential
- Why it stands out among the most promising approaches of 2025

Nominated Companies:

APIVITA SA, Greece; Arterra Bioscience S.p.A. Italy; dermostica institute, Poland; Dr Irena Eris., Poland; E-BioSkin, Serbia; Evonik Operations, Germany; Laboratoires Pierre Fabre, France; Nanovex Biotechnologies, Spain; oloBion, Spain; PROYA Cosmetics Co., France; React4life, Italy; Vibiosphen, France

Integrated Gut–Skin Organ-On-Chip Models for Predictive Drug and Dermocosmetic Assessment
Elisabetta Palamà, *React4life S.P.A., Italy*

The Skin Microbiome and Skin Aging: Experimental Models for Investigating Dermo-Cosmetic Interventions
Patricia Martin, *VibioSphen, France*

Effect of Combination of Royal Jelly Delivery Systems on Skin Longevity Markers
Eleni Panagiotidou, *APIVITA SA, Research and Development, Greece*

Ceramide Np C15-Based Emollient Modulates Skin Microbiota and Improves Barrier Function in Sensitive Skin
Estrella Millan, *Evonik Operations GMBH, Germany*

Exosome-Mediated Microbiome–Skin Interaction: An Innovative Approach to Boost Skin Wellness
Francesca Morra, *Arterra Bioscience S.p.A., Italy*

Naringenin, Peptides and Gold: Synergistic in Vitro Effect on Collagen Synthesis Confirmed in Anti-Ageing Activity in Vivo
Wiktoria Piskorz, *Dr Irena Eris S.A., Poland*

Stellar-Inspired Strategy for Skin Longevity: Astrobiology, Electronic Biology, and Molecular Resilience
Sanja Glisic, *E-Bioskin, Serbia*

A Propolis Polyphenol Delivery System and Vitamin C and E Synergy: A Novel Strategy for Skin Antioxidant Protection
Gardikis Konstantinos, *APIVITA SA, Research and Development, Greece*

Advancing Cosmetic Evaluation: Objective, AI-Driven Quantitative Measurement Method of Dynamic Wrinkles
Bartosz Waliś, *dermostica institute, Poland*

Your Cheeks Don't Lie: LC–HRMS Proteomic and Lipidomic Signatures of Age and Metabolic Derangement in Human Stratum Corneum
Yeray Gabaldón, *Universitat Rovira i Virgili & oloBion, Spain*

15h40 **Concluding Discussion: Can we redefine ageing?**
Rethinking Skin Ageing: Perspectives and Challenges Ahead
Moderated by: Marvin Edeas, with invited speakers

Where are we now? Where are the targets? Can we reverse skin ageing? Can we extend healthy skin and preserve skin longevity? Have we forgotten something?

16h10 **Awards: Skin Ageing & Challenges 2025 Scientific & Nominated Innovation**

16h20 **Industrial & Academic Exchange - Networking & Drinks**

17h15 **End of Skin Ageing & Challenges 2025**