

13th Annual Meeting on

Skin Ageing & Challenges

November 17-18, 2022 – Altis Grand Hotel, Lisbon, Portugal & Online

Scientific Agenda

Day 1 – Thursday, November 17, 2022

8h00 **Materials Distribution & Welcome Coffee**

8h50 **Welcome Note & Introductory Remarks**

Jean Krutmann, President of Skin Ageing & Challenges 2022, Leibniz Research Institute for Environmental Medicine, Germany

Marvin Edeas, Founder & Chairman of Skin Ageing & Challenges 2022, Université de Paris, INSERM 1016, Institute Cochin, France

Session 1: Skin Microbiota – Recent Scientific Advances

Presentations lengths: 20 minutes + 5 minutes of discussion

Chairs: Charlotte Esser, Marvin Edeas

9h00 **Rapid Detection and Online Analysis of Human Skin Microbial Changes by Flow Cytometry (FloSoFine™)**
Charlotte Esser, Leibniz Research Institute for Environmental Medicine, Germany

9h25 **The Fungal Skin Microbiota in Health and in Atopic Dermatitis**
Philipp Bosshard, University Hospital Zurich, Switzerland

9h50 **Skin Microbiome and Mycobiome in Aging**
Woo Jun Sul, Chung-Ang University, South Korea

10h15 **Skin Microbiome Profile of Healthy Cameroonians and Japanese**
Kazuhiro Ogai, Kanazawa University, Japan (online talk)

10h30 *Coffee Break, Networking, & Poster Session*

Chair: Philip Bosshard

11h15 **A Gene Variant of AKR1C3 Contributes to Interindividual Susceptibilities to Atopic Dermatitis Triggered by Particulate Air Pollution**
Thomas Haarmann-Stemann, Leibniz Research Institute for Environmental Medicine, Germany

11h40 **Mechanisms Interconnecting Genotype, Transcriptome and Microbiome during Atopic Skin Inflammation**
Bernhard Homey, University Hospital in Düsseldorf, Germany (online talk)

12h05 **Skin Microbiome in Ageing Meta-analysis: New Challenges for the Future of Skin Science**
Antonia Bruno, University of Milano-Bicocca, Italy (online talk)

12h15 *Lunch Break, Networking & Poster Session*

Session 2: Wound Healing and Skin Regeneration

Presentations lengths: 20 minutes + 5 minutes of discussion

Chair: Thomas Haarmann-Stemmann

- 13h45 Olfactory Receptors, Microbiota & Wound Healing**
Marvin Edeas, Institut Cochin, INSERM, Université de Paris, France
- 14h10 The p-rpS6-zone Delineates Wounding Response and the Healing Process**
Mikolaj Ogrodnik, Ludwig Boltzmann Research Group Senescence and Healing of Wounds, Austria
- 14h35 Doctor Jekyll and Mr. Hyde – Two Faces of Opioids in a Wound Treatment**
Marek Konop, Warsaw Medical University, Poland
- 15h00 Skin Physiology and Two Staphylococci Associated with the Recurrence of Pressure Injuries**
Kohei Ogura, Kanazawa University, Japan (online talk)
- 15h25 Role of the TRPV3 Channel in the Default of Cutaneous Thermoregulation During Aging**
Lisa Martin, Claude Bernard University, France

15h35 Coffee Break, Networking & Poster Session

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

Presentations lengths: 20 minutes + 5 minutes of discussion

Chairs: Laurent Marrot, Charareh Pourzand

- 16h10 Atmospheric Pollution Impairs Skin Barrier Function: Focus on PM-Associated Pollutants Under UVA Exposure**
Laurent Marrot, L'Oréal, France
- 16h35 Connecting the Intracellular Labile Ironome to Susceptibility of Skin Cells to Sunlight: A Powerful Approach Towards Personalised Sun Protection**
Charareh Pourzand, University of Bath, United Kingdom
- 17h00 Menopause, iron, and aging skin: Is there a connection?**
Xi Huang, I-On Skincare, Inc., USA
- 17h25 Short Oral Presentations**
Presentations lengths: 8 minutes + 2 minutes of discussion
- Skin-Aging Enzyme Inhibition and Oxidative Stress Protection by Hairless Canary Seed (*Phalaris Canariensis* L.) Peptides**
Andrea Liceaga, Purdue University, USA
- Cell Imaging for Dermocosmetic Claims Substantiation Through In vitro Assessment on Cellular Skin Models**
Oceane Guyot, HCS Pharma, France
- The Effect of Facial Exercise on Perceived Appearance, Self-esteem, Face Image, and Well-being Among Adult Women**
Topaz Broitman-Shaharabani, Reichman University, Israel (online talk)
- 17h55 End of Conference Day 1**
- 20h00 Meet the Speakers Dinner (for ticket holders only)**

Day 2 – Friday November 18, 2022

8h50 Welcome & Introductory talk

Session 4: Artificial Intelligence & Skin: Advances & Perspective

Presentations lengths: 20 minutes + 5 minutes of discussion

Chair: Ricardo Vardasca

9h00 **Unlocking the Power of AI Skin Tech in the Dermatology Industry**
Louis Chen, EVP and Chief Strategy Officer at PerfectCorp, Taiwan

9h25 **Recent Artificial Intelligence Developments for Skin Cancer Detection**
Ricardo Vardasca, ISLA Santarém, Portugal

9h50 **Electronic Skin that Anticipates and Perceives Touch from Different Directions**
Oliver Schmidt, Chemnitz University of Technology, Germany

10h15 *Coffee Break, Networking & Poster Session*

Session 5: Extracellular Vesicles & Skin: The Points of View

Presentations lengths: 20 minutes + 5 minutes of discussion

Chairs: Uraivan Panich, Oliver Schmidt

10h50 **Science and Clinical Applications of Exosomes**
Duncan Ross, Kimera Labs, Inc., USA

11h15 **Exosome Technology: Pearls & Pitfalls for Skin Rejuvenation**
Saranya Wyles, Mayo Clinic Department of Dermatology, USA (online talk)

11h40 **Extracellular Vesicle Therapy for Skin Injuries**
Piul S. Rabbani, New York University School of Medicine, USA (online talk)

12h05 **Extracellular Vesicles in Facial Aesthetics**
Jia Xian Law, Universiti Kebangsaan Malaysia (online talk)

12h30 **Comparative Profiling of Stem Cell Derived Extracellular Vesicle Sources for Applications in Skin Rejuvenation**
Soraya Williams, Loughborough University, United Kingdom

12h40 **Exosome-Like Nanovesicles Derived from *Phellinus Linteus* Inhibit MICAL2 Expression through Cross-kingdom Regulation and Inhibit Ultraviolet-Induced Skin Aging**
Caibin Zhu, Shanghai Cheermore Biotech Co., Ltd, China (online talk)

12h45 *Lunch Break, Networking & Poster Session*

Session 6: Skin Ageing & Challenges 2022 Innovations
Presentations lengths: 20 minutes + 5 minutes of discussion

Chairs: Inês Milagre, Christa Rhiner

13h45 Turning Back the Clock – Harnessing Reprogramming to Rejuvenate Cells
Inês Milagre, Católica Biomedical Research Centre / Católica Medical School/ Universidade Católica Portuguesa, Portugal

14h10 Regeneration in the Fly Brain: Wake-Up Signals for Quiescent Neural Stem Cells
Christa Rhiner, Champalimaud Foundation, Portugal

14h35 Novel Mitochondria-Targeted Sulfide Delivery Molecules Prevent Photo-Ageing
Uraivan Panich, Mahidol University, Thailand

15h00 Elucidating the Molecular Landscape of the Stratum Corneum Using 3D OrbiSIMS
Nichola Starr, University of Nottingham, United Kingdom

15h25 Coffee Break, Networking & Poster Session

15h55 Induction of the Transcription Factor FOXM1 Drives Healthspan Extension in Progeroid and Naturally Aged Mice
Elsa Logarinho, i3S Association, University of Porto, Portugal (online talk)

16h20 Short Oral Presentations
Presentations lengths: 8 minutes + 2 minutes of discussion

Natural and Sustainable Sugarcane Based Cosmetic Ingredient with Anti-Aging Properties
Maria João Carvalho, Universidade Católica Portuguesa, Portugal

Mauritius Tea Extract Activate Skin Antioxidant and Bioenergetic Systems
Tanisha Naiken, LVMH Recherche, France

New Method for Claim Substantiation for Cosmetics Using Lipidomics Analysis
Paolo Bonini, oloBion S.L., Parc Científic de Barcelona, Spain

Anti-aging Potentials of Methylene Blue for Human Skin Longevity
Kan Cao, University of Maryland College Park, USA (online talk)

17h00 Discussion: Skin Ageing & Challenges 2022 – AI & Beauty: Where is the Target?

17h30 Skin Ageing & Challenges 2022 Awards
The best short oral and best poster presentation awards will be discerned.

17h45 End of Skin Ageing & Challenges 2022

Poster No.	Name	Title	Country	In-Person/Online
1	ADAMIEC-ORGANISCIOK, Malgorzata	Skin cell lines response to death pathway modulation	Poland	In-Person
2	ALMEIDA, Isabel F.	New marine-inspired compounds as dual anti-pruritic/anti-inflammatory agents	Portugal	Online
3	BEVAN, Damon	Inflammation in skin – An age-old problem	United Kingdom	In-Person
4	BRAUN, THEODOR	Anti-aging effects of dimocarpus longan fruit concentrate on skin	Austria	In-Person
5	CHEVALIER, Fabien	MIR-30A-5P alters epidermal terminal differentiation during aging by regulating bnip3l/nix-dependent mitophagy	France	In-Person
6	DEL CARPIO-ORANTES, Luis	Dermatological manifestations in patients with COVID-19 pneumonia in veracruz	Mexico	Online
7	DILLON, Oliver	How to save your own skin with tomatoes ?	United Kingdom	In-Person
8	GAMA, Ana Rita	Cleansing stick for atopic dermatitis: determination of foaming capacity	Portugal	Online
9	GRIFFITHS, Katie	Is it just skin deep? Exploring the host skin response to bacteria	United Kingdom	In-Person
10	GRUBER, Florian	Basigin controls matrix remodeling, the secretory phenotype and metabolic adaptations of senescent keratinocytes and their epidermal microenvironment	Austria	In-Person
11	HOHECKER, Barbara	Influence of Water-Filtered Infrared-A (WIRA) hyperthermia on autophagy of human skin fibroblasts	Germany	In-Person
12	KIM, Sooah	Ameliorative effect of fermented cabbage extracts on wound healing And contact dermatitis	Republic of Korea	In-Person
13	LEVIN, Asaf	Multilamellar vesicle conjugated to polymer – A new platform for skin-care products	Israel	In-Person
14	THI-HUNG, Le	Fisetin inhibits uva-induced expression of MMP-1 and MMP-3 through the nox/ros/mapk pathway in human dermal fibroblasts and human epidermal keratinocytes	Korea	In-Person
15	MOINIPOOR, Zeynab	Interaction of skin cells with skin microbiota	United Kingdom	In-Person
16	PAIVA-SANTOS, Ana Cláudia	Ketoprofen nanoemulsions for melanoma treatment: Formulation, development and characterization	Portugal	In-Person
17	PELLIZZON, Claudia Helena	Brazilian red propolis – A product from natural origin for healing skin lesions of secondary intention	Brazil	In-Person
18	PEREIRA, Cláudia	Effect on the skin of extracts isolated from the portuguese coast's sargaço	Portugal	In-Person
19	PIETRZKOWSKI, Zbigniew	DermaVal offsets impact of glucose on blood levels of metalloproteinases and cytokines that regulate extracellular matrix	USA	In-Person
20	ŠKAŘUPOVÁ, Denisa	Effect of hesperidin and its structural part hesperetin, rutinose and rhamnose on collagen I and matrix metalloproteinase 1 production in the normal dermal human fibroblasts	Czech Republic	Online
21	SOUSA, Patrícia	Umbilical cord mesenchymal stem cells characterization: In vitro preliminary assessments for chronic wound healing	Portugal	In-Person
22	SZCZEPANCZYK, Michal	Screening the dermatological potential of water-based extract from defatted microalgae biomass	Sweden	In-Person
23	SZUDZIK, Mateusz	In vitro and in vivo evaluation of keratin-trimethylamine n-oxide as a potential novel therapeutics wound dressing in diabetic rats	Poland	In-Person
24	THANGBOONJIT, Weerawon	Protective effects of quercetin-loaded PLGA nanoparticles against Uva-induced photoaging in mouse skin	Thailand	In-Person
25	ZHENG, Youjie	Interaction of tagln and USP1 promotes ZEB1 ubiquitination degradation in ub-induced skin photoaging	China	Online
26	ZHU, caibin	Exosome-like nanovesicles derived from phellinus linteus inhibit MICAL2 expression through cross-kingdom regulation and inhibit ultraviolet-induced skin aging	China	Online