Day 1 – February 25, 2018

17h30 / 18h30  Registration of Attendees – Badges & Abstracts book Distribution

Day 2 – February 26, 2018

7h30  Registration & Welcoming

8h55  Introduction by Skin Ageing & Challenges 2018 Chairpersons
Jean-François Doré, Marvin Edeas, Jean Krutmann

Session 1: Skin Challenges 2018 – State of the Art
Mechanistics Aspects
Chairperson: Jean-François Doré

9h00  What’s new in extrinsic skin aging research – State of the art?
Jean Krutmann, Leibniz Research Institute for Environmental Medicine, Germany

9h25  Keratinocytes as sensors and central players in the immune defense against pathogens
Birgit Schittek, University of Tübingen, Germany

9h50  Skin Frailty: role of the Renin Angiotensin System
Peter Abadir, Johns Hopkins University School of Medicine, USA

10h15  Messenger RNA processing and cellular senescence in ageing skin fibroblasts
Lorna Harries, University of Exeter, United Kingdom

10h40  Coffee Break, Poster & Exhibition Session

11h25  Short Oral Presentations (7 minutes for presentation + 3 minutes for questions)

Extracellular vesicle mediated cross talk of miRNAs in skin cell aging
Johannes Grillari, Christian Doppler Laboratory for Biotechnology of Skin Aging, Austria

Histone variant H2A.J as a novel biomarker of cellular senescence during human skin ageing
Claudia Rübe, Saarland University, Germany

Involvement of mitophagy in the elimination of damaged mitochondria during the process of UVB-induced senescence
Maria Cavinato, Universität Innsbruck, Austria

Skin mitohormesis by targeting hydroxycinnamic acid derivates to mitochondria
José Teixeira, Center for Neuroscience & Cell Biology, Portugal

Peptides and sugars, derived from plant somatic embryo cultures, attenuates ageing-associated phenotypes in skin cells
Fabio Apone, Arterra Bioscience/Vitalab, Italy

Acute UV exposure impairs NO-mediated cutaneous vasodilatation through degradation of the folate metabolite 5-MTHF
Larry Kenney, The Pennsylvania State University, USA

12h25  Lunch Break, Poster & Exhibition Session
Session 2: Exposomes & Skin Ageing – Recent Scientific Advances

Chairperson: Jean Krutmann

14h00  The skin aging exposome – the interplay of UV and pollution
Tamara Schikowski, Leibniz Research Institute for Environmental Medicine, Germany

14h25  High environmental ozone levels and extrinsic skin aging
Kateryna Fuks, Leibniz Research Institute for Environmental Medicine, Germany

14h50  Deleterious synergy between some particulate matter components and UVA from sunlight contribution of “photo-pollution stress” to skin exposome
Laurent Marrot, L’Oréal Research & Innovation, France

15h15  AtmO3 spheric skin damages: the Ox-Inflammation phenomena
Guiseppe Valacchi, University of Ferrara, Italy

15h40  Coffee Break, Poster & Exhibition Session

16h40  Short Oral Presentations (7 minutes for presentation + 3 minutes for questions)

New perspectives on the synergistic effect of multiple environmental stressors on ageing and biomechanical properties of human stratum corneum
Reinhold H. Dauskardt, Stanford University, USA

Multifactorial protection of urban skin via direct and indirect mechanisms
Andrew Salazar, Merck, Germany

Exposome: preventive & curative botanical approach
Aïna Queiroz, ID Bio, France

Cellular signalling pathways implicated in the skin’s response to pollution
Emilie Bony, Greentech, France

Permeation and biochemical interactions of hazardous pollutants in human skin by confocal Raman spectroscopy
Airton Martin, Universidade Brasil, Brazil

Alterations in NO-mediated cutaneous endothelial function with hypertension as defined by the 2017 JNC/AHA guidelines
Lacy Alexander, The Pennsylvania State University, USA

Age-associated dermal stem cell niche dysfunction correlates with reduced SOX2 expression levels
Ander Izeta, Hospital Universitario Donostia, Spain

VEGF mediates rejuvenation of aged human skin xenografts in young mice
Amos Gilhar, Skin Research Laboratory, Technion, Israel

18h00  End the first day

20h30  Skin Challenges 2018 Dinner
The dinner will be organized at Hotel Intercontinental Porto, Palácio das Cardosas
Praça da Liberdade, 25, Porto, Portugal
Pick-up service will be organized at 20:00 from the hotel.
Day 3 – February 27, 2018

8h40 Opening of the second day

Session 3: Skin Microbiota: Recent Scientific Advances

Chairperson: Birgit Schittek

8h45 Skin ageing and ultraviolet radiation. Is there a role for the skin microbiome?
Jean-François Doré, International Prevention Research Institute, France

9h10 Skin microbiota & epithelial barrier: recent advances and perspectives
Katharina Bitschar, University of Tübingen, Germany

9h35 Short Oral Presentations (7 minutes for presentation + 3 minutes for questions)

Is skin microbiota beneficial to human skin? Activation of the Nrf2-keap1 pathway via volatiles electrophiles
Ron Kohen, The Hebrew University of Jerusalem, Israel

The skin microbiota: future challenges
Mathieu Bey, Greentech, France

Skin microbiome and ageing: a new strategy for skin healthy aging?
Cécile Clavaud, L’Oréal Research and Innovation, France

Carotenoid rich chocolate and ice cream to support skin health: from sebum to corneocytes and microbiota
Ivan Petyaev, Lycotec Ltd., United Kingdom

Skin-microbiome communication: human natriuretic peptides as regulators of propionibacterium acnes and staphylococcus aureus biofilm formation
Andrei Gannesen, University of Rouen Normandy, France

10h25 Coffee Break, Poster & Exhibition Session

11h15 Effect of an atmospheric pollutant, NO2, on bacterial species of skin microbiota
Xavier Janvier, University of Rouen Normandy, France

Microenvironment impact on cutibacterium acnes: growth, virulence and biofilm formation of acnecic and non-acnecic strains
Valérie Borrel, Normandie University, France

Handling a skin microbiome project: scientific watch associated to best practices for sampling, sequencing and analysis
Ahmad Khodr, L’Oréal Research and Innovation, France

Special Session on Skin Challenges, Olfaction and the future of Biomarkers:
The evaluation and imaging of body volatils with non-invasive methods

Chairperson: Marvin Edeas

A short session will be dedicated to skin challenges and how we will switch to non invasive methods and devices to evaluate the quality of skin. We will talk about Olfactory receptors, Bio-sniff or Sniff Camera and other devices which will be integrated in our Smartphone and may be in our bathrooms.

11h45 Targeting olfactory receptors by agonists, aromas, microbiota or digital scents: myth or reality?
Marvin Edeas, Institut Cochin, Université Paris Descartes, France

12h10 Gas-imaging system (SNIFF-CAM) of dermal volatiles for skin condition and aging analysis
Kohji Mitsubayashi, Tokyo Medical and Dental University, Japan

12h35 Lunch Break, Poster & Exhibition Session
Session 4: Algae & Skin Ageing – Interest in Cosmetic

Chairperson: Jean-Paul Cadoret

13h45  From chemical ecology to marine biotechnology: bioactives compounds from algae
Claire Hellio, Université de Brest, France

14h10  Marine algae as attractive source to skin care
Edith Filaire, Université Orléans, France

14h35  Original oligosaccharides from a red microalgae: relevant actions on irregular skin patterns
Jean-Paul Cadoret, Greensea Biotechnologies, France

15h00  Learning with the development of bionatural, a unique skin solar protector, with high beta-carotene content from dunaliella microalgae in 1997/8
Vitor Verdelho Vieira, Inácio Valle, Portugal

15h15  Coffee Break, Poster & Exhibition Session
Chairperson: Marvin Edeas, Jean-François Doré

15h45  Short Oral Presentations (7 minutes for presentation + 3 minutes for questions)

Selenium preserves keratinocyte stemness and delays senescence by maintaining epidermal adhesion
Walid Rachidi, Grenoble Alpes University, France

Applications of edible bird’s nest (EBN) in cosmetics development
Chan Gallant, The Hong Kong University of Science and Technology, Hong Kong

Quantitative nanohistology of human skin in health and disease
Laurent Bozec, University College London, United Kingdom

Non biological skin models: new tools for cosmetic research? From instrumental to sensory studies
Florine Eudier, Normandie University, France

The skin exposome: pollution, sunlight & beyond and innovative ideas to counteract the damages
Imke Meyer, Symrise, Germany

Activation of keratinocytes in response to repeated-exposure of a cosmetic sensitizer in a 3D skin model
Chloé Raffalli, Université Paris-Sud, France

Evaluation of the effects of intense pulsed light on the structure of collagen
Anna Maeva, University College London, United Kingdom

16h55  Discussion & Concluding Remarks
Skin Challenges 2018 and New Players: What’s next?
How to initiate the integration of new technologies, artificial intelligence and digital olfaction in our strategies of tomorrow?

17h10  Skin Challenges 2018 Scientific & Innovation Awards

17h15  End of Skin Challenges 2018

❖ Group Photo
A group picture will be realized on Monday before the lunch break with all attendees.

❖ Award of the Best Poster 2018
The best poster award will be discerned at the end of Skin Challenges 2018.

You can participate to select the best poster 2018. Please give the number of the best poster to the staff.