

Annual Meeting
of the **Society for Free Radical Research - Europe**



Vienna, Austria
2023
June 06 - 09



Tuesday, June 6, 2023

SFRR-E Executive Meeting (Room Turin)

14:00 – 15:30

15:30 – 16:00 *Coffee break*

SFRR-E Council Meeting (Room Turin)

16:00 – 17:30

Registration (Mancini Foyer)

14:00 – 15:30

Industry Exhibition Set-up (Mancini Foyer) and Poster Set-up (Olympia Mancini 1)

14:00 – 16:30

Poster Viewing (Mancini Foyer & Olympia Mancini 1)

16:30 – 17:30

Meet-the-Professors Session - Poster viewing - Wine & Cheese (Mancini Foyer & Olympia Mancini 1)

17:30 – 18:30

ECR Networking (Mancini Foyer & Olympia Mancini 1)

18:30 – 20:00

Wednesday, June 7, 2023

Registration (Mancini Foyer)

07:30 – 08:00

Opening & Welcome Session (Olympia Mancini 2)

08:00 – 08:30

Symposium I - Extracellular vesicles in redox homeostasis (Olympia Mancini 2)

Chairs: Consuelo Borrás Blasco (University of Valencia, Spain) and Charles Ramassamy (Institut National de la Recherche Scientifique, Laval, Québec, Canada)

08:30 – 09:00 **Cell biology of extracellular vesicles**

Graca Raposo (*Centre National de la Recherche Scientifique UMR144, Institut Curie, Paris Sciences et Lettres Research University, France*)

09:00 – 09:30 **Small extracellular vesicles from young adipose-derived stem cells prevent frailty, improve healthspan and decrease epigenetic age in old mice**

Consuelo Borrás Blasco (*Department of Physiology, Faculty of Medicine, University of Valencia, Spain*)

09:30 – 10:00 **Extracellular vesicles as paracrine redox regulators of thrombosis and haemostasis**

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Renato Simoes Gaspar (*Laboratory of Vascular Biology, Health Institute, Faculty of Medicine, University of San Paulo, Brazil*)

SFRR-E Basic Science Award Lecture (Sponsored by Elsevier) (Olympia Mancini 2)

Chairs: TBA

10:00 – 10:30 **Elucidating the biological chemistry of peroxynitrite, a stealthy oxidant**

Rafael Radi (*Department of Biochemistry, Facultad de Medicina, Universidad de la República, Montevideo, Uruguay*)

10:30 – 11:00 Coffee & Posters & Exhibition (Mancini Foyer and Olympia Mancini 1)

Leopold Flohé Redox Pioneer Award Lecture (Sponsored by SFRR-E and OCC) (Olympia Mancini 2)

Chairs: TBA

11:00 – 11:30 **Proteasome activation and the secrets of anti-aging**

Niki Chondrogianni (*National Hellenic Research Foundation, Athens, Greece*)

Symposium II - Thiol modifications in redox signalling pathways (Olympia Mancini 2)

Chairs: Juan Sastre (University of Valencia, Spain) and Elias Arnér (Karolinska Institutet, Stockholm, Sweden)

11:30 – 12:00 **Highly localized thiol oxidation in metabolic enzyme assembly**

Tobias Dick (*German Cancer Research Center, Heidelberg, Germany*)

12:00 – 12:30 **Role of 2-Cys peroxiredoxins in mitochondria-to-cytosol H₂O₂ gradients**

Elena Hidalgo (*Universitat Pompeu Fabra, Barcelona, Spain*)

12:30 – 13:00 **Redox regulation of tumor progression and metastasis: lessons from mouse models to clinical strategies**

Volkan Sayin (*University of Gothenburg, Sweden*)

13:00 – 14:00 Lunch & Posters & Exhibition (Mancini Foyer and Olympia Mancini 1)

Selected Oral Presentations I – Redox signaling and inflammation (Olympia

Mancini 2)

Chairs: TBA

Selected Oral Presentations II – Vascular Biology (Olympia Mancini 3)

Chairs: TBA

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14:00 – 14:30	SPEAR: A proteomics approach for simultaneous protein expression and redox analysis Shani Doron (<i>The Robert H. Smith Institute of Plant Sciences and Genetics in Agriculture, The Hebrew University of Jerusalem, Rehovot, Israel</i>)	14:00 – 14:15	ROS induced mitochondrial hormesis partially protects from SGAs mitochondrial toxicity and cardiovascular disease Laura Doblado (<i>Dept. Metabolism and cell signaling, Instituto de Investigaciones Biomédicas “Alberto Sols” (CSIC/UAM), Madrid, Spain</i>)
14:15 – 14:30	ROS-induced ribosome stalling and collision underlies ZAKα-mediated metabolic decline in obesity and aging Laura Ryder (<i>Center for Healthy Aging, Department of Cellular and Molecular Medicine, University of Copenhagen, Copenhagen, Denmark</i>)	14:15 – 14:30	Measuring oxidant production in phagosomes to identify abnormalities in neutrophil function Louisa V Ashby (<i>Centre for Redox Biology and Medicine, University of Otago Christchurch, Department of Pathology and Biomedical Science, Christchurch, New Zealand</i>)
14:30 – 14:45	The protective role of endothelial α1AMPK in aircraft noise-induced vascular dysfunction and oxidative stress is mediated by fasting, exercise and pharmacological treatment Paul Stamm (<i>Department of Cardiology, Cardiology I – Laboratory of Molecular Cardiology, University Medical Center of the Johannes Gutenberg-University Mainz, Mainz, Germany</i>)	14:30 – 14:45	Identification of human plasma proteins inactivating atherogenic oxidized phospholipids using immune “masking” assay and pull-down proteomics Philipp Jokesch (<i>Department of Pharmaceutical Chemistry, University of Graz, Graz, Austria</i>)
14:45 – 15:00	Constitutive activation of NLRP3 inflammasome machinery in ex-vivo models of Rett syndrome: from pathogenetic role to new potential therapeutic target Valeria Cordone (<i>Department of Environmental Sciences and Prevention, University of Ferrara, Ferrara, Italy</i>)	14:45 – 15:00	Redox sensitive thiols identified on Jagged1 regulate endothelial cell cycle, adhesion, and extracellular matrix proteins Shawn B Cottrill (<i>Systems Medicine, School of Medicine, University of Dundee, Dundee, Scotland</i>)
15:00 – 15:15	The role of inflammatory signaling pathways involving the CD40L-CD40-TRAF cascade in animal models of diabetes and hypertension as well as coronary artery disease patients Lea Strohm (<i>Department of Cardiology, Cardiology I, University Medical Center of the Johannes Gutenberg-University, Mainz, Germany</i>)	15:00 – 15:15	The inflammatory oxidant peroxynitrous acid modulates the structure and function of versican isoform V3 Sara M. Jørgensen (<i>Department of Biomedical Sciences, Panum Institute, University of Copenhagen, Copenhagen, Denmark</i>)
		15:15 – 15:30	Dynamics of plasma membrane repair upon oxidative damage Palina Nepachalovich (<i>Center of Membrane Biochemistry and Lipid Research, Faculty of Medicine Carl Gustav Carus of TU Dresden, Dresden, Germany</i>)

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<p>15:15 – 15:30 Immunometabolism of TLR4-mediated activation in microglia and translational application Martina Ciarnelli (<i>Department of Medical and Surgical Sciences, University of Foggia, Foggia, Italy</i>)</p>	
<p>15:30 – 16:00 Coffee & Posters & Exhibition (Mancini Foyer and Olympia Mancini 1)</p>	
<p>Selected Oral Presentations III – Redox Biology in human disease (Olympia Mancini 2) <i>Chairs: TBA</i></p> <p>16:00 – 16:15 UCP3 deficiency increases cardiac ischemia-reperfusion injury: effects on energy metabolism, mitochondrial structure and oxidative stress Susana Cadenas (<i>Centro de Biología Molecular "Severo Ochoa", CSIC/UAM, Madrid, Spain</i>)</p> <p>16:15 – 16:30 TRP14 is the cellular cystine reductase and also reduces cysteinylated proteins Pablo Martí-Andrés (<i>Department of Physiology, Faculty of Pharmacy, University of Valencia, Burjassot, Spain</i>)</p> <p>16:30 – 16:45 Remote ischemic preconditioning modifies early ventricular remodeling post myocardial infarction by attenuation of the inflammatory response and oxidative stress Mariana Garcés (<i>Universidad de Buenos Aires. CONICET. Instituto de Bioquímica y Medicina Molecular (IBIMOL), Facultad de Farmacia y Bioquímica. Ciudad de Buenos Aires, Argentina</i>)</p> <p>16:45 – 17:00 Role of Coenzyme Q10 in mitochondrial dysfunction and oxidative damage in RETT syndrome</p>	<p>Selected Oral Presentations IV – Metabolism (Olympia Mancini 3) <i>Chairs: TBA</i></p> <p>16:00 – 16:15 Transcription factor NRF2 regulates the permeability of the blood brain barrier at the level of ANGPT1/2-TIE2 signaling Antonio Cuadrado (<i>Department of Biochemistry, Medical College, Autonomous University of Madrid, Madrid, Spain</i>)</p> <p>16:15 – 16:30 Effects of a cyanidin- and delphinidin-rich extract on mitochondrial dynamics, biogenesis and thermogenesis in adipose tissue of mice fed a high-fat diet Eleonora Cremonini (<i>Eleonora Cremonini Departments of Nutrition and Environmental Toxicology, University of California, Davis, CA, USA</i>)</p> <p>16:30 – 16:45 Brain mitochondrial metabolism, redox state, neuroinflammation, and synaptic plasticity is modulated by milk intake in a rat model Giovanna Trinchese (<i>Department of Biology, University of Naples Federico II, Naples, Italy</i>)</p> <p>16:45 – 17:00 Exercise training shapes intracellular hydrogen peroxide gradients in skeletal muscle Carlos Henriquez-Olguín (<i>University of Copenhagen, Department of Nutrition, Exercise and Sports, Copenhagen, Denmark</i>)</p>

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17:00 – 17:15	Sonia Silvestri (<i>Department of Life and Environmental Sciences, Polytechnic University of Marche, Ancona, Italy</i>) Oxidation and chlorination of human amylin induces chemical and structural changes and formation of immunogenic products Ramona Clemen (<i>ZIK plasmatis, Leibniz Institute for Plasma Science and Technology (INP), Greifswald, Germany</i>)	17:00 – 17:15	Oxidation of 6-phosphogluconolactonase mediated by peroxy radicals affects specific amino acids and triggers protein aggregation: consequences for the pentose phosphate pathway Camilo López-Alarcón (<i>Department of Physical Chemistry, Faculty of Chemistry and Pharmacy, Pontifical Catholic University of Chile, Chile</i>)
17:15 – 17:30	Myeloperoxidase-derived oxidised lipids in Type 2 Diabetes Hala Shokr (<i>Pharmacy Division, Faculty of Biology, Medicine and Health, University of Manchester, Manchester, UK</i>)	17:15 – 17:30	Thiosulfate Sulfurtransferase Deficiency Promotes Oxidative Distress in Cerebral Prefrontal Cortex Yang Luo (<i>University of Groningen, Dept. of Molecular Pharmacology, Groningen Research Institute of Pharmacy, Groningen, The Netherlands</i>)
Guided Poster Presentation Session II, 4 Parallel Sessions, odd # (<i>Mancini Foyer & Olympia Mancini 1</i>) Chairs: TBA 17:30 – 18:30 Parallel sessions (each poster 3' presentation & 2' discussion)			
19:00 Guided City Tour (to be confirmed)			
20:00 Welcome Reception by the Mayor of the City of Vienna – City Hall			
Thursday, June 8, 2023			
Sunrise Seminar I (<i>Olympia Mancini 2</i>) Chairs: Kelvin Davies (<i>University of Southern California, Los Angeles, USA</i>) and Tilman Grune (<i>German Institute of Human Nutrition Potsdam-Rehbrücke, Germany</i>)			
07:30 – 08:00	Proteolysis in metabolic diseases and aging Tilman Grune (<i>Department of Molecular Toxicology, German Institute of Human Nutrition Potsdam-Rehbruecke, Germany</i>)		
08:00 – 08:30	The Redox Biology of Adaptive Homeostasis During Ageing Kelvin J.A. Davies (<i>Leonard Davis School of Gerontology, University of Southern California, Los Angeles, CA, USA</i>)		

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Symposium III – ECM/Redox Signalling Axis: From Cancer to Tissue Repair and Smarter Regenerative Therapies (*Olympia Mancini 2*)

Chairs: Vanja Pekovic-Vaughan (University of Liverpool, UK) and Santiago Lamas (Universidad Autónoma de Madrid, Spain)

08:30 – 09:00 **Linking metabolic redox homeostasis with tissue architectural cues, and its implications for metastasis and chemotherapy resistance**

Sirio Dupont (Department of Molecular Medicine, University of Padova, Italy)

09:00 – 09:30 **Mitochondrial respiratory chain function promotes extracellular matrix integrity in cartilage**

Bent Brachvogel (University of Cologne, Germany)

09:30 – 10:00 **Antioxidant transcription factor NRF2 regulates skeletal muscle homeostasis through a circadian mechanism that is disrupted with ageing**

Vanja Pekovic-Vaughan (Institute of Life Course and Medical Sciences, University of Liverpool, UK)

Catherine Pasquier Award Lecture (*Olympia Mancini 2*)

Chairs: TBA

10:00 – 10:30 **Impact of proteostasis on cardiac function in aging**

Christiane Ott (Department of Molecular Toxicology, German Institute of Human Nutrition Potsdam-Rehbruecke, Germany)

10:30 – 11:00 Coffee & Posters & Exhibition (*Mancini Foyer and Olympia Mancini 1*)

SFRR-E Annual Award Lecture (*Mancini 2*)

Chairs: TBA

11:00 – 11:30 **The KEAP1/NRF2 system in health and disease**

Masayuki Yamamoto (Department of Biomedical Biochemistry, Graduate School of Medicine, Tohoku University, Sendai, Japan)

Symposium IV – Redox regulation of phosphorylation: effects on translation and translational opportunities (*Olympia Mancini 2*)

Chairs: Salvatore Rizza (Copenhagen, Denmark) and Giuseppe Filomeni (Danish Cancer Society Research Center, Copenhagen, Denmark)

11:30 – 12:00 **Ribosomes as sensors of exposure to free radicals, radiation and toxic metabolites**

Simon Bekker-Jensen (Department of Cellular and Molecular Medicine, Center for Healthy Aging, University of Copenhagen, Denmark)

12:00 – 12:30 **Deficiency of an endoplasmic reticulum oxidoreductase and activation of protein translation synergistically impair breast tumor resilience**

Ester Zito (Laboratory of Signal transduction, Istituto di Ricerche Farmacologiche Mario Negri, Milano, Italy)

12:30 – 13:00 **Regulation of FAK1 phosphorylation by S-nitrosylation in tumor progression**

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Salvatore Rizza (*Redox Biology Research Center, Danish Cancer Society, Copenhagen, Denmark*)

13:00 – 14:00 Lunch & Posters & Exhibition (*Mancini Foyer and Olympia Mancini 1*)

Selected Oral Presentations V – Environmental exposure and disease (*Olympia Mancini 2*)

Chairs: TBA

- 14:00 – 15:30 **Oxidative damage in reperfusion after stroke: ferroptosis and the role of the mitochondrial sodium/calcium exchanger NCLX**
Susana Delgado-Martin (*Unidad de Investigación, Hospital Santa Cristina, Instituto de Investigación Sanitaria Princesa (IIS-IP), Madrid, Spain*)
- 14:15 – 14:30 **Airborne particulate matter exposure impairs lung redox metabolism involved in tissue damage repair mechanisms**
Natalia Magnani (*Universidad de Buenos Aires, Instituto de Bioquímica y Medicina Molecular Prof. Alberto Boveris (IBIMOL-UBA-CONICET), Buenos Aires, Argentina*)
- 14:30 – 14:45 **Traffic noise as a cause of vascular and cerebral dysfunction by adverse redox signaling, and inflammation – implications for the exposome concept and burden of disease**
Andreas Daiber (*Department for Cardiology, Cardiology I, University Medical Center of the Johannes Gutenberg-University, Mainz, Germany*)
- 14:45 – 15:00 **Dietary nitrate improves nitric oxide-mediated neurovascular coupling and spatial memory in a rodent model of type 2 diabetes**

Selected Oral Presentations VI – Redox Chemistry (*Olympia Mancini 3*)

Chairs: TBA

- 14:00 – 14:15 **Prodrugs sequentially activated by reactive oxygen species and hydroxide ions: a possible solution of the neutropenia problem of common anticancer**
Insa Klemt (*Department of Chemistry and Pharmacy, University of Erlangen-Nuremberg, Erlangen, Germany*)
- 14:15 – 14:30 **Identification of galectin-1 and other cellular targets of alpha,beta-unsaturated carbonyl compounds, including dimethylfumarate, by use of click-chemistry probes**
Michael J. Davies (*Department of Biomedical Sciences, Panum Institute, University of Copenhagen, Copenhagen, Denmark*)
- 14:30 – 14:45 **Oxidative stress markers in the cervicovaginal fluid within cervical neoplasia stages**
Busra Kose (*Department of Biochemistry and Molecular Biology, Institute of Health Sciences, University of Acibadem Mehmet Ali Aydinlar, Istanbul, Turkey, and Clinical and Cancer Proteomics Lab, Erasmus MC, Rotterdam, The Netherlands*)
- 14:45 – 15:00 **Crowding modulates the oxidant-induced cross-linking and aggregation of the key glycolytic enzyme glyceraldehyde-3-phosphate dehydrogenase**
Eduardo Fuentes-Lemus (*Department of Biomedical Sciences, Panum Institute, University of Copenhagen, Copenhagen, Denmark*)

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<p>15:00 – 15:15 The redox metabolome of humans receiving supraphysiological doses of intravenous vitamin C João S. Gonçalves (<i>Center for Neuroscience and Cell Biology, University of Coimbra, Coimbra, Portugal</i>) Jan F. Stevens (<i>Linus Pauling Institute and College of Pharmacy, Oregon State University, Corvallis, OR, USA</i>)</p> <p>15:15 – 15:30 Mitochondrial dysfunction and NLRP3 inflammasome activation in Autism Spectrum Disorder Andrea Vallese (<i>Dept. of Environment and Prevention, University of Ferrara, Ferrara, Italy and Animal Science Dept., Plants for Human Health Institute, North Carolina State University, Kannapolis, NC, USA</i>)</p>	<p>15:00 – 15:15 Development and in vivo validation of redox status measurements in blood plasma using EPR spectroscopy Martina C. Meinke (<i>Department of Dermatology, Venereology and Allergology, Center of Experimental and Applied Cutaneous Physiology, Charité – Universitätsmedizin Berlin, Corporate Member of Freie Universität Berlin and Humboldt-Universität zu Berlin, Berlin, Germany</i>)</p> <p>15:15 – 15:30 Uric acid decreases peroxidase activity and produces 5-hydroxiisourate in human endothelial cells' secretome Bianca Dempsey (<i>Biochemistry Department, Chemistry Institute, University of São Paulo, São Paulo, Brazil</i>)</p>
<p>15:30 – 16:00 Coffee & Posters & Exhibition (Mancini Foyer and Olympia Mancini 1)</p>	
<p>Young Investigator Award Session I (Olympia Mancini 2) Chairs: TBA</p> <p>16:00 – 16:15 RAGE-independent induction of cellular signaling in the cardiovascular system by AGE-rich nutritional extracts Merve Kuru-Schors (<i>Martin-Luther-University Halle-Wittenberg, Germany</i>)</p> <p>16:15 – 16:30 AKR1A1 controls redox and metabolic adaptation of renal and hepatocellular carcinoma Chiara Pecorari (<i>Danish Cancer Society Research Center, Copenhagen, Denmark</i>)</p> <p>16:30 – 16:45 Exploring the interplay of transcription factor NRF2, redox homeostasis and RNA metabolism in ALS pathogenesis</p>	<p>Young Investigator Award Session II (Olympia Mancini 3) Chairs: TBA</p> <p>16:00 – 16:15 Nanodiamond relaxometry: an emerging tool for free radical detection in biological samples Alina Sigaeva (<i>University Medical Center Groningen, The Netherlands</i>)</p> <p>16:15 – 16:30 Nrf2 and aging impair the aortic structural features – impact on abdominal aortic aneurysm Aleksandra Kopacz (<i>Jagiellonian University, Krakow, Poland</i>)</p> <p>16:30 – 16:45 Mitochondrial targeting properties of new gold and copper complexes in breast cancer Valeria Scalcon (<i>University of Padova, Italy</i>)</p>

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<p>16:45 – 17:00 Myeloid cell-derived reactive oxygen species from lesional skin contribute to vascular inflammation in experimental psoriasis Johannes Wild (<i>University Medical Center Mainz, Germany</i>)</p>	<p>16:45 – 17:00 Glutathione S-transferase P nuclear distribution and Nrf2/Keap1 interacting properties mark the GSH-dependent drug resistance phenotype of hepatocellular carcinoma Desirée Bartolini (<i>University of Perugia, Italy</i>)</p>
<p>Guided Poster Presentation Session II, 4 Parallel sessions, even # (Mancini Foyer & Olympia Mancini 1) <i>Chairs: TBA</i> 17:00 – 18:00 Parallel sessions (each poster 3' presentation & 2' discussion)</p>	
<p>18:00 – 19:00 SFRR-E General Assembly (Olympia Mancini 2)</p>	
<p>20:00 Conference Dinner – Palais Ferstel</p>	

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Friday, June 9, 2023

Sunrise Seminar II (*Olympia Mancini 2*)

Chairs: TBA

07:30 – 08:30 TBA
TBA

Satellite Symposium Aposcience – Cell-based and cell free tissue regeneration (*Olympia Mancini 1*)

Chairs: Michael Mildner (*Medical University of Vienna, Austria*) and Hendrik Jan Ankersmit (*Medical University of Vienna, Austria*)

SFRR-E Clinical Science Award Lecture (*Olympia Mancini 2*)

Chairs: TBA

10:00 – 10:30 **Age-related biomolecular changes: translational aspects of biological aging**
Maria Cristina Polidori (*CECAD Research Center, Ageing Clinical Research, Department of Internal Medicine II, University Hospital of Cologne, Germany*)

09:00 – 09:25 **Emerging cytokine-based therapies after acute myocardial infarction**
Kai Wollert (*Molecular and Translational Cardiology, Clinic for Cardiology and Angiology, Medizinische Hochschule Hannover, Hannover, Germany*)

09:25 – 09:50 **Cell-based therapies for broken hearts & bones & sore skin**

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Dirk Strunk (*Institute of Experimental and Clinical Cell Therapy, Paracelsus Medical University, Salzburg, Austria*)

09:50 – 10:15 **Promising animal and inconsistent clinical studies of cardiac regeneration: can we bridge the gap?**

Mariann Gyöngyösi, (*Experimental and Clinical Cardiology, Medical University of Vienna, Vienna, Austria*)

10:15 – 10:40 **Industrialization of cellular therapies in modern medicine: 30 years experience in musculoskeletal medicine**

Lee Ann Laurent-Applegate (*Unité de thérapie cellulaire, Service de chirurgie plastique et de la main, CHUV, Lausanne, Switzerland*)

10:30 – 11:00 **Coffee & Exhibition (Mancini Foyer)**

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Symposium Beiersdorf: Redox stress skin (*Olympia Mancini 2*)

Chairs: Ludger Kolbe (Beiersdorf AG, Hamburg, Germany) and TBA

11:00 – 11:20 **Environmental chlorination stress and the skin exposome: Effects on solar UV-driven inflammatory dysregulation and skin carcinogenesis**

Georg Wondrak (*Department of Pharmacology and Toxicology, University of Arizona, AZ, USA*)

11:20 – 11:40 **The bright and the dark sides of NRF2 in skin homeostasis, aging and repair**

Sabine Werner (*Institute of Molecular Health Sciences, ETH Zürich, Switzerland*)

11:40 – 12:00 **TBA**

Ludger Kolbe (*Beiersdorf AG, Hamburg, Germany*)

Symposium Chanel: Cellular senescence (*Olympia Mancini 2*)

Chairs: TBA and Florian Gruber (*Medical University of Vienna, Austria*)

12:00 – 12:20 **Identification and quantification of senescent cell types in chronologically aged skin and UV-induced skin pathologies**

Oliver Dreesen (*Agency for Science, Technology and Research, A*STAR, Singapore, Singapore*)

12:20 – 12:40 **Metabolic adaptations to stress and senescence in the epidermis**

Florian Gruber (*Department of Dermatology, Christian-Doppler Laboratory SKINMAGINE, Medical University of Vienna, Austria*)

12:40 – 13:00 **TBA**

Sandra Forestier (*Chanel IR&D, Pantin, France*)

Satellite Symposium HNE Club

(*Olympia Mancini 3*)

Chairs: TBA

11:00 – 11:05 **Opening & Welcome**

Maria Fedorova (*Technical University of Dresden, Germany*)

11:05 – 11:15 **How HNE was discovered or errors are part of the game**

Jörg Schaur (*Graz, Austria*)

11:15 – 11:40 **Acetaldehyde dehydrogenase 2 in cardiovascular disease: beyond detoxification**

Huiyong Yin (*Shanghai Institute of Nutrition and Health, Chinese Academy of Sciences, Shanghai, and Department of Biomedical Sciences, City University of Hong Kong, HK, China*)

Satellite Symposium Aposcience – Cell-based and cell free tissue regeneration (Ctd.) (*Olympia Mancini 1*)

Chairs: Michael Mildner (*Medical University of Vienna, Austria*) and Hendrik Jan Ankersmit (*Medical University of Vienna, Austria*)

11:00 – 11:25 **Platelet-rich fibrin: biological principles and clinical aspects in tissue regeneration**

Reinhard Gruber (*Competence Center Oral Biology, University Clinic of Dentistry, Medical University of Vienna, Austria*)

11:25 – 11:50 **Extracellular vesicles and their miRNA cargo: friend or foe in tissue regeneration**

Johannes Grillari (*Ludwig Boltzmann Institute of Experimental and Clinical Traumatology, Vienna, Austria*)

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	11:40 – 12:05 The effects of reactive aldehydes on cell metabolism and protein structure/function Corinne M. Spickett <i>(College of Health & Life Sciences, Aston University, UK)</i>	11:50 – 12:15 Regenerative cell therapy for inflammatory conditions: mechanistic insights and impact on clinical practice Francesco Dazzi <i>(School of Cancer & Pharmaceutical Sciences, King's College London, UK)</i>
	12:05 – 12:30 Lipid peroxidation in obesity Morana Jaganjac <i>(Rudger Boskovic Institute, Zagreb, Croatia)</i>	12:15 – 12:40 Secretome-based regenerative medicine: the MARSYAS II trial. Treating of diabetic foot ulcers using paracrine factors from PBMCs Alfred Gugerell <i>(Department of Thoracic Surgery, Medical University of Vienna, Austria)</i>
	12:30 – 12:55 Identification of human plasma proteins inactivating atherogenic oxidized phospholipids using immune "masking" assay and pull-down proteomics Philipp Jokesch <i>(Department of Pharmaceutical</i>	12:40 – 13:00 General discussion and closing remarks

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	<p>12:55 – 13:00 Closing remarks Giuseppe Poli (University of Turin, Italy)</p>	<p><i>Chemistry, University of Graz, Graz, Austria)</i></p>
<p>Wrapping-up & Closing Ceremony (<i>Olympia Mancini 2</i>) 13:00 – 13:30</p>		
<p>13:30 – 14:30 Lunch (<i>Mancini Foyer</i>)</p>		
<p>Satellite Symposium TissueGnostics & COST Action EpiLipidNet: Multimodal imaging of stress and inflammation (<i>Mancini 2</i>) (<i>free for all attendees</i>) <i>Chairs: TBA</i></p> <p>14:30 – 14:35 Welcome Florian Gruber (<i>Department of Dermatology, Christian-Doppler Laboratory SKINMAGINE, Medical University of Vienna, Austria</i>)</p> <p>14:35 – 14:55 Platelet-activating factor and microvesicles as effectors for photosensitivity Jeffrey B Travers (<i>Boonshoft School of Medicine at Wright State University, Dayton, OH, USA</i>)</p> <p>14:55 – 15:35 Multimodal imaging of chemical and metabolic signatures of stressed and aged skin Christopher Kremslehner, Markus Schosserer and Arvand Haschemi (<i>Christian-Doppler Laboratory SKINMAGINE & KILM, Medical University of Vienna, Austria</i>)</p> <p>15:35 – 15:50 TBA Diana Mechtcheriakova (<i>Center for Patophysiology, Infectiology and Immunology, Medical University of Vienna, Austria</i>)</p> <p>15:50 – 16:00 TBA Rupert Ecker (<i>CEO TissueGnostics, Vienna, Austria, and Queensland University of Technology, Brisbane, Australia</i>)</p>		
<p>16:00 – 16:30 Coffee (<i>Mancini Foyer</i>)</p>		
<p>Satellite Symposium COST Action EpiLipidNet, a Pan-European Network in Lipidomics and EpiLipidomics: The metabolome and the (epi-)lipidome in adaptation to stress (<i>Mancini 2</i>) (<i>free for all attendees</i>)</p>		

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Chairs: TBA

16:30 – 17:00 **Targeting oxidized phospholipids in chronic progressive organ damage**

Norbert Leitinger (*University of Virginia, Charlottesville, VA, USA*)

17:00 – 17:30 **Redox challenges from the interplay between ROS, light and glucose as a driver of phospholipidome alteration**

Rosário Domingues (*Departamento de Química, Universidade de Aveiro, Portugal*)

17:30 – 18:30 **Oral Presentations of selected abstracts of EpiLipidNet**

Optional: Visit of Belvedere Castle and Farewell Dinner at Viennese Heuriger