4th World Congress on
Targeting Mitochondria
October 17-18, 2013 - Hotel Ritz Carlton, Berlin – Germany

Final Agenda

Day 1 - October 17, 2013

7h30 Opening of Registrations

9h00 Opening Ceremony by Targeting Mitochondria 2013 Chairmen: Marvin Edeas – Volkmar Weissig

9h10 General Introduction of Targeting Mitochondria 2013: Huge Steps to New Medicine
Douglas Wallace, Center of Mitochondrial and Epigenomic Medicine, Philadelphia, USA

Session 1: Recent Advances on Mitochondrial Dysfunctions in Chronic Diseases
Chairmen: Volkmar Wessig, Douglas Wallace, Marvin Edeas

9h45 Structural Classification as a Platform for Predicting the Function of Mitochondrial Mutations
Rhiannon Lloyd, Institute of Biomedical and Biomolecular Sciences, University of Portsmouth, United Kingdom

10h15 Targeting Small-Conductance Calcium-Activated Potassium (SK2) Mitochondrial Channels: A Promising Target for Neuroprotective Strategies
Carsten Culmsee, Philipps University of Marburg, Marburg, Germany

10h45 Coffee Break, Posters Session & Exhibition Space Visit

11h15 Mitochondrial Dysfunction Modifies Stem Cell Function
Riikka Hamalainen, University of Helsinki, Helsinki, Finland

Session 2: Devices, Methods & Mitochondria: Innovations & New Opportunities
Chairmen: Rodrigue Rossignol, Douglas Wallace

11h45 Nanofluidic Platform for Single Mitochondria Analysis using Fluorescence Microscopy
Douglas Wallace, Center of Mitochondrial and Epigenomic Medicine, Philadelphia, USA

12h00 mTRIP, a Novel Imaging Tool to Diagnose in situ Mitochondrial DNA Processing Dysfunction
Laurent Chatre, Pasteur Institute, Paris, France

12h30 Lunch Break, Posters Session & Exhibition Space Visit

14h00 A Yeast-based Assay to Identify Drugs Active against Human Mitochondrial Disorders
Jean-Paul di Rago, CNRS, Bordeaux, France

14h30 Carbon Nanotubes for Mitochondrial Targeting: State of the Art & Strategies
Alessia Battigelli, CNRS, Strasbourg, France
Session 3: Strategies to Target Mitochondria: Recent Clinical Data and Potential Therapeutic Studies
- Part 1 -

Chairmen: Jiri Neuzil, Rifaat Safadi, Heinz Osiewacz

15h00 Mitochondria & Liver: State of the Art & Perspectives
Rifaat Safadi, Hadassah Hebrew University Hospital, Jerusalem, Israel

15h30 Coffee Break, Posters Session & Exhibition Space Visit

16h00 Liver, Oxidative Stress & Mitochondria: The Subtle Balance
José C. Fernandez-Checa, Spanish National Research Council, Barcelona, Spain

16h30 Damaged Mitochondrial DNA, a Novel Putative Target for Treatment of Diabetic Complications and other Diseases of Mitochondrial Dysfunction
Afshan Malik, King’s College London, London, United Kingdom

16h40 The Measurement of Nitrotyrosine in Blood as an Early Predictive Parameter of Nitrosative Stress and Functional Mitochondriopathy
Clauss Muss, St. Elisabeth Universität für Forschung und Soziales, Bratislava, Slovakia

16h50 Cutaneous Respirometry in Healthy Volunteers: A Novel Technique for Monitoring Mitochondrial Function
Floor A. Harms, Erasmus MC, University Medical Center, Rotterdam, The Netherlands

17h00 Melanin Reduces Acute Mitochondrial Superoxide Generation: A Real-Time Amperometric Study
Sarah Jayne Boulton, Institute of Cellular Medicine, Newcastle, United Kingdom

17h10 The Mitosafe® Bioenergetic Balance Screening (BBS): An Innovative Method to Profile Modulators of the Mitochondrial Metabolic Functions
Emilie Cornille-Robert, ICDD, Predictive Toxicity Department, Meyreuil, France

17h20 Calcium co-Regulates Oxidative Metabolism and ATP-Synthase Dependent Respiration in Pancreatic Beta-Cells
Umberto De Marchi, Nestlé Institute of Health Sciences, Lausanne, Switzerland

17h30 Changed Mitochondrial Properties after Expression of Ciona intestinalis Alternative Oxidase (Aox) in Mouse Heart
Frank N. Gellerich, Otto-Von-Guericke University, Magdeburg, Germany

17h40 Oxidative Stress alters Mitochondrial Dynamics at the Nodes of Ranvier in ex vivo transected Axons
Elena Bros, Institute For Medical Immunology, Charité-Universitätsmedizin Berlin, Germany

17h50 Stomatin-Like Protein-2 Modulates Cell Function by Regulating Mitochondrial Membrane Compartmentalization and Respiration
Joaquin Madrenas, Microbiome and Disease Tolerance Centre, McGill University, Montreal, Canada

18h00 Characterization of Proteins involved in RNA Trafficking into Human Mitochondria
Ali Gowher, University of Strasbourg - CNRS, Strasbourg, France

18h10 End of the First Day

19h45 Targeting Mitochondria 2013 Dinner
The Dinner will be held at Ritz Carlton Hotel. If you wish to register, please contact the conference staff.
## Session 3: Strategies to Target Mitochondria: Recent Clinical Data and Potential Therapeutic Studies - Part 2 -

Chairmen: Carsten Culmsee, Keshav Singh, Marvin Edeas, Volkmar Weissig

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker/Institution</th>
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<tr>
<td>9h00</td>
<td>Role of Mitochondrial Quality Control in Aging: An Integrated Network of Pathways</td>
<td>Heinz Osiewacz, Johann Wolfgang Goethe University, Frankfurt, Germany</td>
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<td>9h30</td>
<td>Targeting Muscle Mitochondria with Vitamin D: Strategies and Perspectives</td>
<td>Timothy Cheetham, University of Newcastle, Newcastle, United Kingdom</td>
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<td>10h00</td>
<td>Cancer &amp; Mitochondria: Therapeutics Strategies</td>
<td>Jiri Neuzil, Griffith Health Institute, Southport, Australia</td>
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<td>10h30</td>
<td>Coffee Break, Posters Session &amp; Exhibition Space Visit</td>
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<td>11h00</td>
<td>Mitochondrial Uncoupling Proteins and its Role in Cancer</td>
<td>Keshav Singh, University of Alabama, Birmingham, USA</td>
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<td>11h30</td>
<td>Mitochondria-Targeting Strategies in Cancer Bioenergetic Therapies: Recent Advances &amp; Perspectives</td>
<td>Rodrigue Rossignol, University of Bordeaux, Bordeaux, France</td>
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<td>12h00</td>
<td>Effects of Oral Supplementation with Sanomit® on Tinnitus-Induced Distress: Double Blind, Randomized, Placebo-Controlled Study</td>
<td>Agnieszka J. Szczepak, Charité – Universitätsmedizin, Berlin, Germany</td>
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<td>12h30</td>
<td>New Antioxidant Product on Market to Target Mitochondria: Presentations and Results</td>
<td>Vladimir Skulachev, Moscow University, Moscow, Russia</td>
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<td>12h45</td>
<td>Lunch Break, Posters Session &amp; Exhibition Space Visit</td>
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<td>14h00</td>
<td>Impact of Antioxidants on Mitochondria in Primary Cells and in Cancer-derived Cell Lines</td>
<td>Miria Ricchetti, Pasteur Institute, Paris, France</td>
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<td>14h30</td>
<td>Mitochondria-Specific Genistein Lipidic Nanocarriers</td>
<td>Tamer Elbayoumi, Midwestern University, College, Glendale, USA</td>
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<td>14h40</td>
<td>HB229: A Novel Parkin-Independent Inducer of Mitophagy</td>
<td>Michelangelo Campanella, RVC and UCL Consortium for Mitochondrial Research, London, United Kingdom</td>
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<td>14h50</td>
<td>Low Abundance of the Matrix Arm of Complex I in the Mitochondria Predicts Longevity</td>
<td>Thomas Von Zglinicki, Institute for Ageing and Health, Newcastle University, Newcastle, United Kingdom</td>
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<td>15h00</td>
<td>Targeting Mitochondria of Cancer Cells With Dichloroacetate: The Case of Oral Squamous Cell Carcinoma</td>
<td>Vitalba Ruggieri, I.R.C.C.S. Centro Di Riferimento Oncologico Della Basilicata, Rionero In Vulture, Italy</td>
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<td>15h10</td>
<td>Selective Mitochondrial Targeting for Anxiolytic Treatment</td>
<td>Michaela Filiou, Max Planck Institute of Psychiatry, Munich, Germany</td>
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<td>15h20</td>
<td>An Immunomodulating Fatty Acid Analogue Targeting Mitochondria Exerts Anti-Atherosclerotic Effect beyond Plasma Cholesterol-Lowering Activity in apo-e-/-Mice</td>
<td>Rolf Berge, Department of Clinical Science, University of Bergen, Bergen, Norway</td>
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<td>15h30</td>
<td>Bornavirus X Protein: A New Tool against Neurodegenerative Disorders?</td>
<td>Marion Szelechowski, INSERM, CHU Purpan, Toulouse, France</td>
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<td>15h40</td>
<td>Targeting Mitochondria 2013 Discussion</td>
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<td>The scientific committee will discuss the axes of the next upcoming Targeting Mitochondria World Congress 2014. One of the strategic axes will be Modulation Diversity &amp; Variety of Microbiota by Mitochondria.</td>
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<td>Conclusion of Targeting Mitochondria 2013</td>
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<td>Targeting Mitochondria Awards</td>
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<td>16h10</td>
<td>All together around Drink &amp; Snacks</td>
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<td>16h30</td>
<td>End of Targeting Mitochondria 2013</td>
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