

REDOX MEDICINE SOCIETY



26TH
International
Conference

REDOX MEDICINE

JUNE
27-28
2024
PARIS
FRANCE

AGENDA

Call for Abstracts

Short oral: May 30
Poster: June 1

Early Bird Registration

May 27, 2024

Paris Redox Medicine 2024 Sessions

Session 1: Redox Balance in Health & Disease

Session 2: Redox Medicine 2024: Future Innovative Directions

Session 3: Redox Status, Biomarkers and Artificial Intelligence



Lessons from a Journey along the Redox Chemistry of Nitrogen Oxides to Drug Development

Bruce Freeman,
University of Pittsburgh, USA



Regulation of the Reactive Species Interactome by Prokineticin Antagonist in Cerebral Dementia

Christel Marquette,
Commissariat à l'Energie Atomique et aux Energies



Antioxidants Stimulate Blood Flow in Tumors

Martin O. Bergö,
Karolinska Institutet, Sweden



Metabolic Regulation by Redox Signaling in the Heart

Tamara Tomin,
TU Wien, Austria



NADH: The Redox Sensor in Aging-Related Disorders

Roberta Rizzo,
Università degli Studi di Ferrara, Italy



Exploring Predictors of HDL Oxidative Stress Functionality in Post-Covid Disease and Relation to Severity

Jumana Saleh,
Sultan Qaboos University, Oman



Redox Implications of Supplementary Oxygen during Major Abdominal Surgery

Andrew Cumpstey,
University of Southampton, United Kingdom



Identifying Oxidized Lipids in Neurodegenerative Diseases

Sayuri Miyamoto,
University of São Paulo, Brazil



Pharma's Search for Redox-Modulating Therapeutics

Duncan Emerton,
Vice-President of Cyteline, United Kingdom



Artificial Intelligence in NeuroInflammation, Biomarkers and Redox Medicine

Stéphane Mouchabac,
Hôpital Saint-Antoine, APHP, France



Artificial Intelligence & Algorithms: Applications in Redox Medicine & Radiology

Maxime Barat,
Université Paris Cité, Hôpital Cochin, France



Redox Interactome in Physiopathology

Miria Ricchetti,
Institut Pasteur, France



The Reactive Species Interactome, Mitochondria, and the Gender-Brain Metabolism Nexus

Laurent Chatre, ISTCT, CNRS,
Université de Caen Normandie, France



Drug repurposing on Alzheimer's Disease & NRF2 Modulation

George M. Spyrou,
The Cyprus Institute of Neurology & Genetics, Cyprus



Epigenetic Modulators Link Mitochondrial Redox Homeostasis to Cardiac Function in a Sex-Dependent Manner

Zaher El Beck,
Karolinska Institutet, Sweden



Mechanism of the SuperInflammasome Complexes in Human Diseases and Redox Signaling

Mario D. Cordero,
Universidad Pablo de Olavide, Spain



Redox 2024: Biomarkers

Carole Nicco,
Université de Paris, France



Targeting the Keap1/Nrf2 Pathway for Treatment of Chronic Neurodegenerative Diseases

Jeffrey A. Johnson,
University of Wisconsin, USA



Redox, Radiotherapy and Biomarkers

Radia Tamarat,
Institut de Radioprotection et de Sécurité Nucléaire (IRSN), France



New Insights into the Impact of Oxidative Stress in Hypertensive Diseases of Pregnancy

Daniel Vaiman,
DR1 INSERM, Institut Cochin, France



How to Develop a Drug – From Preclinical to Clinical

Antonio Vila-Coro,
IQVIA, Spain



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Day 1 - Thursday, June 27, 2024

8h00 **Welcoming of attendees & Badge Distribution**

8h50 **Welcome to Redox Medicine 2024**

Carole Nicco, *President of Redox Medicine Society*

9h00 **Keynote Introduction of Redox Medicine 2024**



Redox Interactome in Physiopathology

Miria Ricchetti, *Institut Pasteur, France*

Session 1: Redox Balance in Health & Disease



9h30 **Mechanism of the SuperInflammasome Complexes in Human Diseases and Redox Signaling**

Mario D. Cordero, *Universidad Pablo de Olavide, Spain*



9h50 **Regulation of the Reactive Species Interactome by Prokineticin Antagonist in Cerebral Dementia**

Christel Marquette, *Laboratoire Biosanté U1292 INSERM-CEA-UGA, Equipe MAB2, France*



10h10 **Metabolic Regulation by Redox Signaling in the Heart**

Tamara Tomin, *TU Wien, Austria*

10h30 **Questions & Answers**

10h45 – 11h30 Coffee Break, Poster & Exhibition Session



11h30 **Epigenetic Modulators Link Mitochondrial Redox Homeostasis to Cardiac Function in a Sex-Dependent Manner**

Zaher El Beck, *Karolinska Institutet and Uppsala University, Sweden*



11h50 **The Reactive Species Interactome, Mitochondria, and the Gender-Brain Metabolism Nexus**

Laurent Chatre, *ISTCT, CNRS, Université de Caen Normandie, France*



12h10 **Pharma's Search for Redox-Modulating Therapeutics**
Duncan Emerton, Vice-President of Citeline, United Kingdom

12h30 **Questions & Answers**

12h40 – 14h00 Lunch Break, Poster & Exhibition Session

Meet Citeline and Mitologics



14h00 **Antioxidants Stimulating Blood Flow in Tumors**
Martin O. Bergö, Karolinska Institutet, Sweden



14h20 **NADH: The Redox Sensor in Aging-Related Disorders**
Roberta Rizzo, Università degli Studi di Ferrara, Italy



14h40 **Redox Implications of Supplementary Oxygen during Major Abdominal Surgery**
Andrew Cumpstey, University of Southampton, United Kingdom



15h00 **New Insights into the Impact of Oxidative Stress in Hypertensive Diseases of Pregnancy**
Daniel Vaiman, DR1 INSERM, Institut Cochin, France

15h20 **Questions & Answers**

15h40 – 16h10 Coffee Break, Poster & Exhibition Session

16h10 **Short Oral Presentations & Industrial Innovations of Day 1 (11 slots)**

The Duality of Reactive Sulfur Species: Cellular Oxidants and Antioxidants
Christopher Switzer, University of Leicester, United Kingdom

HO-1 Regulation in BACH1 Knockout Mice Following Sepsis
Raghavan Pillai Raju, Medical College of Georgia, USA

Structure-Based Drug Design for Targeting Thioredoxin Reductase-Like Enzymes: Paving the Way to Treat Parasitic Infections and Other Diseases
Matteo Ardini, University of L'Aquila, Italy

18h00 **End of Redox Medicine 2024 Day 1**

20h00 – **Speakers' Dinner (For ticket holders only)**

Day 2 - Friday, June 28, 2024

8h00 **Welcoming of Attendees & Registration**

8h30 **Keynote Speech**



Lessons from a Journey along the Redox Chemistry of Nitrogen Oxides to Drug Development
Bruce Freeman, University of Pittsburgh, USA

Session 2: Redox Medicine 2024: Future Innovative Directions



9h00 **Drug Repurposing on Alzheimer's Disease & NRF2 Modulation**
George M. Spyrou, The Cyprus Institute of Neurology & Genetics, Cyprus



9h20 **Targeting the Keap1/Nrf2 Pathway for Treatment of Chronic Neurodegenerative Diseases**
Jeffrey A. Johnson, University of Wisconsin, USA



9h40 **A Nitroalkene-Based Therapy for Parkinson's Disease – Preclinical Results**
Bruce Freeman, University of Pittsburgh, USA

10h00 **Questions & Answers**

10h20 – 11h00 Coffee Break, Poster & Exhibition Session

Session 3: Redox Status, Biomarkers and Artificial Intelligence



11h00 **Redox Medicine 2024: Biomarkers**
Carole Nicco, *President of Redox Medicine Society*



11h20 **Identifying Oxidized Lipids in Neurodegenerative Diseases**
Sayuri Miyamoto, *University of São Paulo, Brazil*



11h40 **Exploring Predictors of HDL Oxidative Stress Functionality in Post-Covid Disease and Relation to Severity**
Jumana Saleh, *Sultan Qaboos University, Oman*

12h00 **Questions & Answers**

12h20 – 14h00 Lunch, Poster & Exhibition Session

Meet Citeline and Mitologics



14h00 **Artificial Intelligence in NeuroInflammation, Biomarkers and Redox Medicine**
Stéphane Mouchabac, *CHU St Antoine DMU Neurosciences and Institut du Cerveau, Paris*



14h20 **Artificial Intelligence & Algorithms: Applications in Redox Medicine & Radiology**
Maxime Barat, *Université Paris Cité, Hôpital Cochin, France*



14h40 **How to Develop a Drug – From Preclinical to Clinical**
Antonio Vila-Coro, *IQVIA, Spain*



15h00 **Redox, Radiotherapy and Biomarkers**
Radia Tamarat, *Institut de Radioprotection et de Sûreté Nucléaire (IRSN), France*

15h20 **Questions & Answers**

15h35 – 16h10 Coffee, Poster & Exhibition Session

16h10 **Short Oral Presentations & Industrial Innovations of Day 2 (8 slots)**

Therapeutic Efficacy of Novel Conjugates Based On Gold and Cerium Oxide Nanoparticles in Rats with Metabolic Dysfunction-Associated Steatohepatitis

Gregori Casals, Hospital Clinic Barcelona-IDIPAPS, Spain

Endothelial Cell Redox Modulation through a Synthetic Thiol Compound Tuning the Metabolic Profiles and Stress Responses in Hypoxia And Normoxia

Michela Bruschi, University of Urbino Carlo Bo, Italy

17h30 **Concluding Remarks – Redox and Antioxidant Molecules: Barriers and Perspectives**

17h45 **Awards of Redox Medicine Society 2024**

- Best Scientific Contribution
- Best Short Oral Presentation
- Best Poster Presentation

End of Redox Medicine Society 2024



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