21st ISANH International Conference on
Oxidative Stress Reduction, Redox Homeostasis & Antioxidants

June 20-21, 2019 | Université Pierre et Marie Curie, Paris, France

www.isanhn.net
Dear Colleagues,

It is our great pleasure to present you the 21st International Conference on Oxidative Stress Reduction, Redox Homeostasis and Antioxidants - Paris Redox 2019 – which will be organized at University Pierre et Marie Curie, Paris, France in June 20-21, 2019.

During Paris Redox World Congress 2019, we will discuss the role of antioxidants as modulators of redox signaling pathways rather than players that counteract oxidative stress. Furthermore, we will analyze the mechanisms by which cells respond to oxidative stress and prevent cell damage and cell death. We will also highlight oxidative stress evaluation and discuss the recent advances on biomarkers, related to redox alteration. To understand mechanisms of redox control and their role in oxidative stress pathologies and aging, it is necessary to identify and dissect the function of the key players of redox processes.

Paris Redox 2019 aims to make an important contribution towards a better understanding of redox control in physiological and pathological states that will lead to new therapeutic and disease-preventive agents.

Among the strategic topics which will be discussed:

- Redox 2019: Advances, Mechanistic and Perspectives
- Oxidative stress, Mitochondria and Microbiota
- Oxidative stress implications in diseases
- Redox 2019 Innovations
- Paris Redox Scientific & Innovation Awards 2019

A round table discussion will be organized to discuss:

- Do we need to modify Redox Science Terminology: From ROS to Reactive Species Interactome?
- Redox 2020: Where is the Next Target?

We look forward to meeting you in Paris for this exciting program in June.

Prof. Frédéric Batteux
Institut Cochin, Inserm U1016, University Paris Descartes, France
President of Paris Redox 2019

Prof. Marvin Edeas
Institut Cochin, Inserm U1016, University Paris Descartes, France
Chairman of Paris Redox 2019 Scientific Committee
21st ISANH International Conference on Oxidative Stress Reduction, Redox Homeostasis & Antioxidants

PARIS REDOX 2019

June 20 - 21, 2019 - University Pierre and Marie Curie - Paris, France

Call for Abstracts
Short oral presentation: April 21
Poster presentation: May 15
Early Bird Registration
Register & Save Before April 24

Discussion & Scientific - Innovation Awards
Do we need to modify Redox Science Terminology
Redox 2020: Where is the Next Target
Paris Redox Scientific & Innovation Awards 2019

PARIS REDOX SPEAKERS

Redox 2019 : Today & Tomorrow
Pedro Buc Calderon, University of Louvain, Belgium
Chemogenetic approaches to dissect redox stress pathways in the cardiovascular system
Thomas Michel, Harvard Medical School, USA

Recent advances on the neuroprotective role of the novel TLDC proteins against oxidative stress
Matté Finelli, University of Oxford, United Kingdom
Introduction on the Signaling Pathway & Redox
Paul-Henri Romeo, University of Paris Diderot, France

KEAP1-NRF2 Antioxidative stress response system
Masayuki Yamamoto, Tohoku University Graduate School of Medicine, Japan
Dynamic Relationship between the reactive species interactome and biocerebrovascular metabolism in Brain
Laurent Chatre, CNRS, University of Caen-Normandie, France

Uric acid, a major energy regulator of the cell turning into a killer of pancreatic beta-cells
Andrew Bahn, University of Otago, New Zealand
Reactive Sulfide Species: An emerging paradigm in redox biology
Kenneth R. Olson, Emeritus Professor of Physiology, Indiana University School of Medicine, USA

Phagocyte NADPH oxidase, oxidative stress and lipids: anti or pro ageing
Chantal Houët, Université Paris Sud, France
Myeloperoxidase, oxidative stress and diseases: can we stop it
Semira Galijasevic, Sarajevo Medical School, Bosnia

Metabolic switches saving mitochondria from oxidative stress
Carsten Culmsee, Philipps-Universität Marburg, Germany
Different roles of specific ROS in regulation of myogenic contractions in microarterioles
Christopher Wilcox, Georgetown University, USA

Lipid Peroxidation & Ferropotosis: Recent advances & Perspective
Sebastian Doll, Helmholtz Zentrum München, Germany
Nrf2 in Duchenne muscular dystrophy
Józef Dulak, Jagiellonian University, Poland

Redox and Other Metabolic Disorders Associated with Autism
Richard Frye, Phoenix Children’s Hospital, USA
Lipoic acid for treating multiple sclerosis
Dennis Bourdette, Oregon Health & Science University, USA

HDAC8 is modulated by a redox-switch
Franz-Josef Meyer-Aimes, University of Applied Sciences Darmstadt, Germany
Role of oxidative stress in Pathogenesis of Parkinson’s disease
Omar P. Gulati, Khorgas Research, Switzerland

Commensal microbiota induced redox signaling activates proliferative signals in the intestinal stem cell microenvironment
Rheinallit M. Jones, Emory University School of Medicine, USA
Thiosulfate as a therapeutic option in Redox diseases
Harry van Goor, University Medical Center Groningen, The Netherlands

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Université Pierre & Marie Curie, Paris, France

Agenda

Day 1 - June 20, 2019

07:45 Welcoming & Registration of Attendees

08:50 Opening of Paris Redox World Conference
Frédéric Batteux, President of Paris Redox 2018, Institut Cochin, France

09:00 Introduction to Redox 2019: Today & Tomorrow
Pedro Buc Calderon, University of Louvain, Belgium

Session 1 – Redox 2019: Advances, Mechanistic and Perspectives

09:25 Different roles of specific ROS in regulation of myogenic contractions in microarterioles
Christopher Wilcox, Georgetown University, USA

09:45 Chemogenetic approaches to dissect redox stress pathways in the cardiovascular system
Thomas Michel, Harvard Medical School, USA

10:05 Reactive Sulfide Species: An emerging paradigm in Redox Biology
Kenneth R. Olson, Emeritus Professor of Physiology at Indiana University School of Medicine - South Bend, USA

10:25 Short oral presentations upon abstracts submission (7 minutes for presentation + 3 minutes for questions)

HDAC8 is modulated by a redox-switch
Franz-Josef Meyer-Almes, University of Applied Sciences Darmstadt, Germany

SIRT1 inhibition by peroxynitrite mediates nicotine-induced arterial stiffness in mice
Ping Song, Georgia State University, USA

10:45 Coffee Break & Poster Session

11:15 Introduction on the Signaling Pathway & Redox
Paul-Henri Romeo, University of Paris Diderot, France

11:35 Keap1-Nrf2 Antioxidative stress response system
Masayuki Yamamoto, Tohoku University Graduate School of Medicine, Japan

11:55 Nrf2 in Duchenne muscular dystrophy
Jozef Dulak, Jagiellonian University, Poland

12:15 Uric acid, a major energy regulator of the cell turning into a killer of pancreatic beta-cells
Andrew Bahn, University of Otago, New Zealand

12:35 Lunch break & poster session

14:00 Ferroptosis, a cell death modality caused by lipid peroxidation
Sebastian Doll, Helmholtz Zentrum Münche, Germany
14:20  Phagocyte NADPH oxidase, oxidative stress and lipids: anti or pro ageing  
Chantal Houée, Université Paris Sud, France

14:40  Short oral presentations upon abstracts submission (7 minutes for presentation + 3 minutes for questions)

The oxidative stress sensor heme-regulated inhibitory (HRI) kinase controls general protein homeostasis by triggering a cytosolic unfolded protein response  
Stephen E. Girardin, University of Toronto, Canada

Nitric oxide regulates protein homeostasis by S-nitrosylations of the chaperone Hspa8 and the ubiquitin ligase UBE2D  
Irmgard Tegeder, Goethe-University Hospital, Germany

Oxidative stress-induced KLF4 activates inflammatory response through IL17RA and its downstream targets in retinal pigment epithelial cells  
David Li, Sun Yat-Sen University, China

15:10 Coffee Break & Poster Session

16:00  Short oral presentations upon abstracts submission (7 minutes for presentation + 3 minutes for questions)

Targeting nrf2-mediated redox signaling inhibits cancer cells growth in vitro and in vivo  
Venugopal Reddy Bovilla, JSS Academy of higher Education & Research, India

Targeting integrin-linked kinase-mediated oxidative metabolism impairs therapy resistance of quiescent cancer stem cells in BCR-ABL+ Human Leukemia  
Xiaoyan Jiang, University of British Columbia, Canada

Short oral presentations selected from Abstracts submission

18:30  End of the first day

20:30  Paris Redox 2019 Dinner

Day 2 - June 21, 2019

Session 2: Oxidative stress, Mitochondria and Microbiota

08:30  Introduction & Remarks: Mitochondria, Redox and Microbiota  
Marvin Edeas, Institut Cochin, Inserm U1610, University Paris Descartes, France

08:50  Commensal microbiota induced redox signaling activates proliferative signals in the intestinal stem cell microenvironment  
Rheinallt M. Jones, Emory University School of Medicine, USA

09:10  Dynamic Relationship between the reactive species interactome and bioenergetic metabolism in Brain  
Laurent Chatre, CNRS, University of Caen-Normandie, France

09:30  Metabolic switches saving mitochondria from oxidative stress  
Carsten Culmsee, Center for Mind, Brain and Behavior - CMBB, Germany

09:50  Butyrate enhances mitochondrial function during oxidative stress in cell lines from boys with autism  
Richard Frye, Phoenix Children's Hospital, USA

10:10  Short oral presentations upon abstracts submission (7 minutes for presentation + 3 minutes for questions)

Escherichia coli mediated resistance of entamoeba histolytica to oxidative stress is triggered by oxaloacetate  
Serge Ankri, Technion, Israel

Short oral presentation selected from Abstracts submission
Session 3: Oxidative stress implications in diseases

11:15 Role of oxidative stress in Pathogenesis of Parkinson's disease
Om P. Gulati, Khorag Research, Geneva, Switzerland

11:35 Recent advances on the neuroprotective role of the novel TLDC proteins against oxidative stress
Mattéa Finelli, University of Oxford, United Kingdom

11:55 Lipoic acid for treating multiple sclerosis
Dennis Bourdette, Oregon Health & Science University, USA

12:15 Short oral presentations upon abstracts submission (7 minutes for presentation + 3 minutes for questions)

Effects of weak static magnetic fields on ros concentrations and the growth rates of cancer cells and planarian
Frank Stephenson Barnes, University of Colorado, USA

Session 4 - Redox 2019 Innovation

Call for innovation in all field related to Redox, Health and Medicine.
If you wish to present your devices, methods and Innovations, please submit your Abstract

13:30 Thiosulfate as a therapeutic option in Redox diseases
Harry van Goor, University Medical Center Groningen, The Netherlands

13:50 Myeloperoxidase, oxidative stress, and diseases: can we stop it?
Semira Galijasevic, Sarajevo Medical School, Bosnia

14:10 Multiresponsive hydrogel flexible sensors for metabolic oxidative stress analytics
Samuel Mugo, MacEwan University, Canada

14:30 Biological Oxydetion: Biological fuels and fire extinguishers
Eric Postaire, Académie des Sciences, France

14:50 Short oral presentations upon abstracts submission (7 minutes for presentation + 3 minutes for questions)

The effect of Cold Atmospheric Pressure plasma (CAP) on cell migratory behaviors and molecular markers of wound healing machinery
Debarati Shome, Leibniz Institute for Plasma Science and Technology, Germany

Effect of reactive species generated by Cold Atmospheric Plasma on membrane lipids in presence of lipophilic and hydrophilic antioxidants
Mehdi Ravandeh, University of Greifswald, Germany

Advanced Water S-100: a new ionized water for innovative healthcare products
Georges Bouille, Adwatis SA, Switzerland

Upstream of pathology; a new tool to diagnose the oxidative stress
Thierry Berna, SOS Stress Oxydetion Solutions, Switzerland

15:30 Coffee break & poster session

16:00 Selective enhancement of free radicals as a strategy to eliminate tumor cells
Undurti Das, BioScience Research Centre, India

Short oral presentations upon abstracts submission (7 minutes for presentation + 3 minutes for questions)

Dietary inorganic nitrate attenuates hyperoxia-induced oxidative stress in obese type 2 diabetic male rats
Asghar Ghasemi, Shahid Beheshti University of Medical Sciences, United Kingdom
Dietary antioxidants, total antioxidant capacity and the risk of diabetes, hypertension and cardiovascular outcomes: a longitudinal population-based study
Zahra Bahadoran, Shahid Beheshti University of Medical Sciences, Iran

Short oral presentation selected from Abstracts submission

17:00 Discussion:
- Do we need to modify Redox Science Terminology: From ROS to Reactive Species Interactome
- Redox 2020: Where is the Next Target

17:30 Concluding remarks: Redox 2019 by
Harry van Goor, University Medical Center Groningen, The Netherlands

Paris Redox Scientific & Innovation Awards 2019

18:00 End of Paris Redox 2019 Congress

Last updated on April 15, 2019