

INTERNATIONAL SOCIETY OF ANTIOXIDANTS

21<sup>st</sup> ISANH International Conference on

**Oxidative Stress Reduction,  
Redox Homeostasis & Antioxidants**



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



INTERNATIONAL SOCIETY  
OF  
ANTIOXIDANTS



UNIVERSITÉ  
PARIS  
DESCARTES



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Dear Colleagues,

It is our great pleasure to present you the **21<sup>st</sup> 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:**

- *Technical Mechanistics and Fundamental Approach to Study Redox*
- *Redox & Microbiota: From Skin, Brain to gut*
- *Redox in the Reproductive System*
- *Redox, Brain & Neurodegenerative diseases*
- *Redox in the Cancer*
- *Redox 2019 Innovations*
- *Redox 2019 Awards*

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

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**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**  
*March 15*

**Paris Redox 2019 Sessions**

- ◆ *Technical Mechanistic and Fundamental Approach to study Redox*
- ◆ *Redox & Microbiota: From Skin, Brain to gut*
- ◆ *Redox: Innovation 2019*
- ◆ *Redox in the Reproductive System*
- ◆ *Redox, Brain & Neurodegenerative Diseases*
- ◆ *Redox in Cancer*

**PARIS REDOX SPEAKERS**



**Redox 2019 : Today & Tomorrow**

Pedro Buc Calderon, University of Louvain, Belgium



**Recent advances on the neuroprotective role of the novel TLDC proteins against oxidative stress**

Mattéa Finelli, University of Oxford, United Kingdom



**KEAP1-NRF2 Antioxidative stress response system**

Masayuki Yamamoto, Tohoku University Graduate School of Medicine, Japan



**Uric acid, a major energy regulator of the cell turning into a killer of pancreatic beta-cells**

Andrew Bahn, University of Otago, New Zealand



**Phagocyte NADPH oxidase, oxidative stress and lipids: anti or pro ageing**

Chantal Houée, Université Paris Sud, France



**Metabolic switches saving mitochondria from oxidative stress**

Carsten Culmsee, Philipps-Universität Marburg, Germany



**Lipid Peroxidation & Ferroptosis: Recent advances & Perspective**

Sebastian Doll, Helmholtz Zentrum München, Germany



**Butyrate enhances mitochondrial function during oxidative stress in cell lines from boys with autism**

Richard Frye, Phoenix Children's Hospital, USA



**HDAC8 is modulated by a redox-switch**

Franz-Josef Meyer-Almes, University of Applied Sciences Darmstadt, Germany



**Chemogenetic approaches to dissect redox stress pathways in the cardiovascular system**

Thomas Michel, Harvard Medical School, USA



**Introduction on the Signaling Pathway & Redox**

Paul-Henri Romeo, University of Paris Diderot, France



**Dynamic Relationship between the reactive species interactome and bioenergetic metabolism in Brain**

Laurent Chatre, CNRS, University of Caen-Normandie, France



**Reactive Sulfide Species: An emerging paradigm in redox biology**

Kenneth R. Olson, Emeritus Professor of Physiology, Indiana University School of Medicine, USA



**Myeloperoxidase, oxidative stress and diseases- can we stop it**

Semira Galijasevic, Sarajevo Medical School, Bosnia



**Different roles of specific ROS in regulation of myogenic contractions in microarterioles**

Christopher Wilcox, Georgetown University, USA



**Nrf2 in Duchenne muscular dystrophy**

Jozef Dulak, Jagiellonian University, Poland



**Lipoic acid for treating multiple sclerosis**

Dennis Bourdette, Oregon Health & Science University, USA



**Role of oxidative stress in Pathogenesis of Parkinson's disease**

Om P. Gulati, Khorphag Research, Geneva, Switzerland



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# Paris Redox 2019

## 21<sup>st</sup> International Conference on Oxidative Stress Reduction, Redox Homeostasis & Antioxidants

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

### Preliminary Agenda

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#### 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 Fundamental Approach

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

09:50 Chemogenetic approaches to dissect redox stress pathways in the cardiovascular system  
*Thomas Michel, Harvard Medical School, USA*

10:15 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*

#### 10:40 Coffee Break & Poster Session

11:10 Introduction on the Signaling Pathway & Redox  
*Paul-Henri Romeo, University of Paris Diderot, France*

11:25 Keap1-Nrf2 Antioxidative stress response system  
*Masayuki Yamamoto, Tohoku University Graduate School of Medicine, Japan*

11:50 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*

#### 12:40 Lunch break & poster session

14:00 Ferroptosis, a cell death modality caused by lipid peroxidation  
*Sebastian Doll, Helmholtz Zentrum München, Germany*

14:25 Phagocyte NADPH oxidase, oxidative stress and lipids: anti or pro ageing  
*Chantal Houée, Université Paris Sud, France*

14:50 Major Talk

### 15:15 Coffee Break & Poster Session

16:00 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*

**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*

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

18:30 End of the first day

20:30 Paris Redox 2019 Dinner

## Day 2 - June 26, 2018

### Session 2: Redox, Mitochondria and Microbiota

08:30 Introduction & Remarks: Mitochondria, Redox and Microbiota

*Marvin Edeas, Institut Cochin, Inserm U1610, University Paris Descartes, France*

08:55 Metabolic switches saving mitochondria from oxidative stress

*Carsten Culmsee, Center for Mind, Brain and Behavior - CMBB, Germany*

09:20 Dynamic Relationship between the reactive species interactome and bioenergetic metabolism in Brain

*Laurent Chatre, CNRS, University of Caen-Normandie, France*

09:45 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)

### 10:30 Coffee break & poster session

### Session 3: Redox, Brain & Other Pathologies

11:00 Role of oxidative stress in Pathogenesis of Parkinson's disease

*Om P. Gulati, Khorphag Research, Geneva, Switzerland*

11:25 Recent advances on the neuroprotective role of the novel TLDC proteins against oxidative stress

*Mattéa Finelli, University of Oxford, United Kingdom*

11:50 Lipoic acid for treating multiple sclerosis

*Dennis Bourdette, Oregon Health & Science University, USA*

12:15 Myeloperoxidase, oxidative stress, and diseases: can we stop it?

*Semira Galijasevic, Sarajevo Medical School, Bosnia*

### 12:50 Lunch break & poster session

13:30

### **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

14:30 **Short oral presentations upon abstracts submission** (7 minutes for presentation + 3 minutes for questions)

**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 Oxydatif Solutions, Switzerland*

**15:00 Coffee break & poster session**

17:00 Discussion:

- Do we need to modify Redox Science Terminology

- Redox 2020: Where is the Next Target

17:30 Concluding remarks: Redox 2019

Paris Redox Awards 2019

18:00 End of Paris Redox 2019 Conference