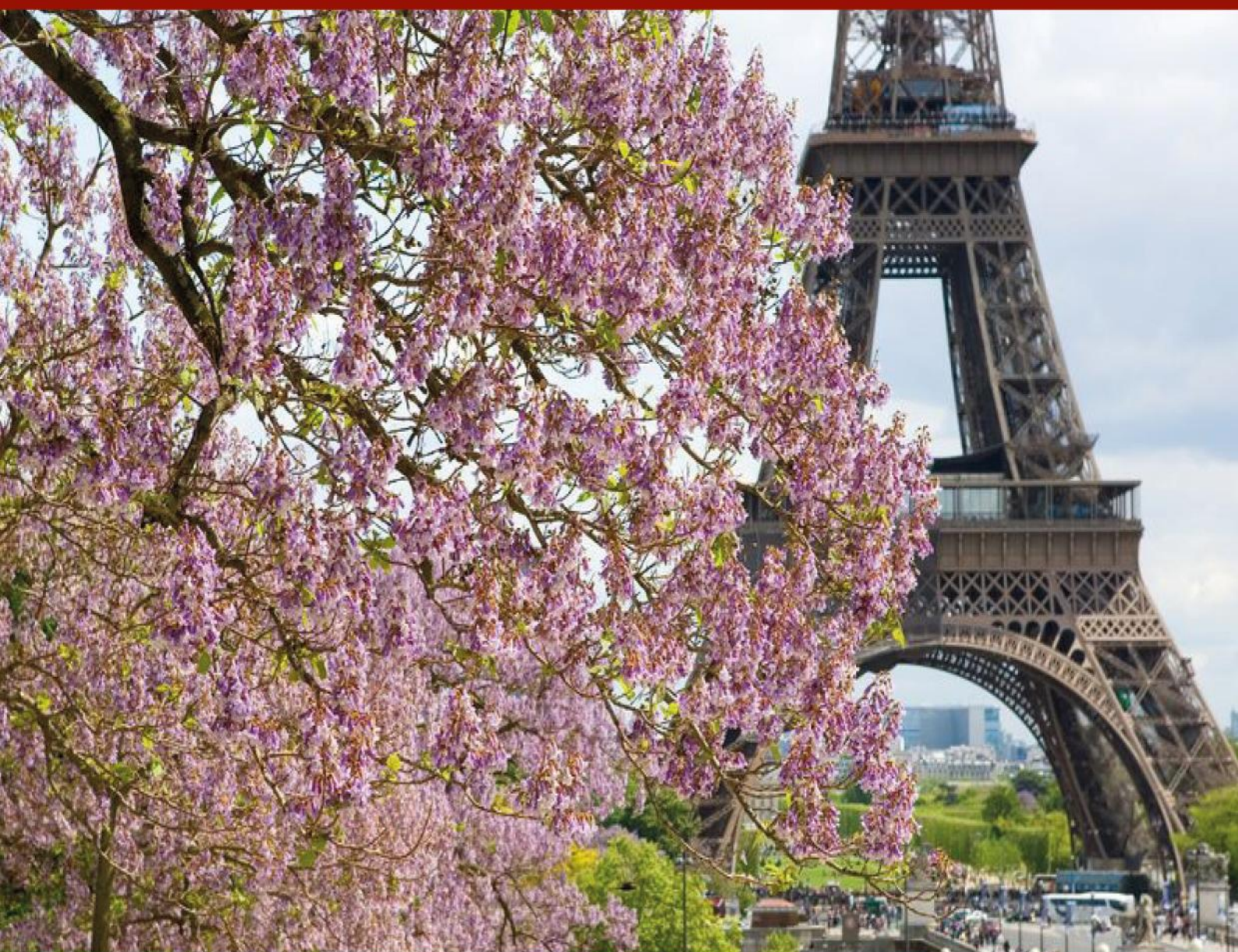


# 20<sup>th</sup> ISANH INTERNATIONAL CONFERENCE ON Oxidative Stress, Redox Homeostasis & Antioxidants

## PARIS REDOX 2018



June 25-26, 2018 | Université Pierre et Marie Curie, Paris, France





## WELCOME NOTE

Dear Colleagues,

It is our great pleasure to present you the **20th International Conference on Oxidative Stress Reduction, Redox Homeostasis and Antioxidants - Paris Redox 2018** – which will be organized at University Pierre et Marie Curie, Paris, France in June 25-26, 2018.

Paris Redox 2018 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.

During Paris Redox World Congress 2018, we will again 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.

Among the strategic topics which will be discussed during ISANH Redox 2018:

- Oxidative Stress & Redox 2018: Recent advances and perspectives
- Reactive Oxygen Species, Reactive Sulfide Species, Reactive Nitrite Species and Redox Regulation-Modulation
- Oxidative Stress & Chronic Diseases: Neurodegenerative Diseases, Fertility, Cancer, Metabolic Syndrome, Pulmonary Diseases, Skin and others.
- Oxidative Stress, New Bio-sensors & Biomarkers: Imaging of Oxidative Stress in 2018
  - Special highlight on non-invasive methods
- Redox medicine & Innovations

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 2018

### **Prof. Marvin Edeas**

Institut Cochin, Inserm U1016, University Paris Descartes, France  
Chairman of Paris Redox 2018 Scientific Committee

# Paris Redox 2018

20<sup>th</sup> International Conference on  
Oxidative Stress Reduction, Redox Homeostasis & Antioxidants

June 25-26, 2018  
Université Pierre & Marie Curie, Paris, France

## Preliminary Agenda

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07:45 Welcoming & Registration of Attendees

08:55 Opening of Paris Redox World Conference

*Frédéric Batteux*, President of Paris Redox 2018, Institut Cochin, France

*Marvin Edeas*, Chairman of Scientific Committee, Institut Cochin, France

## Day 1 - June 25, 2018

### Session 1: Oxidative Stress & Redox 2018 Recent Scientific Advances & Perspectives

09:00 Oxidative stress, antioxidant genes and satellite cells in muscle regeneration: cross-talks with microRNAs

*Jozef Dulak*, Jagiellonian University, Poland

09:25 Role of bacterial antioxidant defense in their resistance to bactericidal antibiotics

*A. C. Matin*, Stanford University School of Medicine, USA

### Session 2: ROS, RSS, RNS and Redox Regulation-Modulation

09:50 Redox Metabolism of Hydrogen Sulfide (H<sub>2</sub>S) and Reactive Sulfide Species (RSS): Emerging concepts in cell signaling and therapeutic applications

*Kenneth Olson*, Indiana University School of Medicine, USA

10:15 Proteome S-sulfhydration and hydrogen sulfide (H<sub>2</sub>S) homeostasis in bacterial pathogens

*David Giedroc*, Indiana University Bloomington, USA

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

11:25 Significance and regulation of the extracellular thiol redox status

*Martin Feelisch*, University of Southampton, United Kingdom

11:50 Interaction of sulfide with cellular bioenergetics a first/last step in redox signaling?

*Frédéric Bouillaud*, Institut Cochin, INSERM, France

12:15 Interplay between reactive oxygen and nitrogen species in cancer cell fate determination

*Shazib Pervaiz*, National University of Singapore, Singapore

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

### Session 3: Oxidative Stress & Chronic Diseases Recent Scientific Advances & Perspectives

14:00 **Redox signaling predicts disease progression and patient survival in various conditions**  
*Harry van Goor, University Medical Center Groningen, The Netherlands*

14:25 **Generation of oxidative stress as an anticancer therapeutic strategy**  
*Meng-Er Huang, Institut Curie, France*

14:50 **Dietary antioxidant capacity and risk of type 2 diabetes**  
*Francesca Mancini, Institut Gustave Roussy, France*

15:15 **Oxidative Stress & Pulmonary Diseases: Recent Advances & Perspectives**  
*Anh Tuan Dinh-Xuan, Cochin Hospital, France*

#### 15:40 Coffee Break & Poster Session

16:25 **Peroxiredoxin 6 is essential for the antioxidant protection of human spermatozoa**  
*Cristian O'Flaherty, McGill University, Canada*

16:50 **Short oral presentations upon abstracts submission**

18:30 **End of the first day**

20:00 **Paris Redox 2018 Dinner**  
*If you would like to participate, please register online before June 11.*

## Day 2 - June 26, 2018

08:55 Opening of the second day

### Session 4: Redox Medicine & Innovations

*New biosensors & biomarkers  
Oxidative stress imaging in vitro / in vivo*

09:00 Non-invasive detection of oxidative-stress biomarkers in exhaled air – an overview  
*Guillaume Suarez, Institut Universitaire Romand de Santé au Travail, Switzerland*

09:25 Ethylene, an early marker of systemic inflammation in humans  
*Laurent Paardekooper, Radboud University Nijmegen, The Netherlands*

09:50 A 3D model of the regulatory subunits of the NADPH oxidase implications for the design of NADPH oxidase inhibitors  
*Oliver Nüsse, University Paris-Sud, France*

10:15 In vivo Reactive Oxygen Species imaging for complex pathology monitoring: use of nanoparticles  
*Antigoni Alexandrou, Ecole Polytechnique, France*

*10:40 Coffee Break & Poster Session*

11:40 Short oral presentations upon abstracts submission

*12:30 Lunch break & poster session*

14:00 Short oral presentations upon abstracts submission

17:00 Concluding remarks by Paris Redox 2018 chairpersons

Paris Redox Awards 2018

18:00 End of Paris Redox 2018 Conference