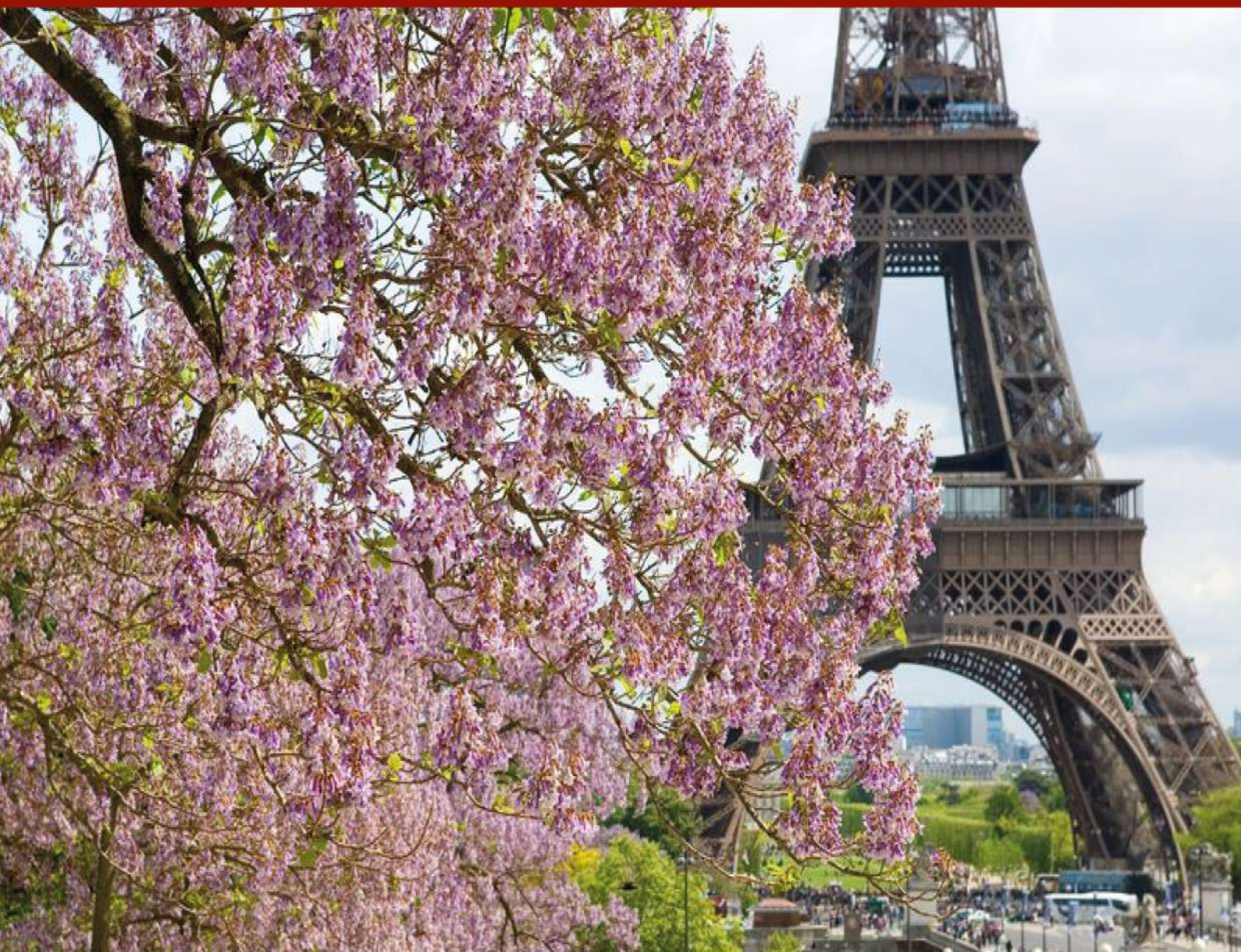


20th ISANH INTERNATIONAL CONFERENCE ON Oxidative Stress, Redox Homeostasis & Antioxidants

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

20th International Conference on
Oxidative Stress Reduction, Redox Homeostasis & Antioxidants

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

Preliminary Agenda

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 (H₂S) 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 (H₂S) 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 status in diabetic conditions: effects of SGLT2 inhibition**
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 **The yin and yang effects of low doses of irradiation on hematopoietic stem cells**
Paul-Henri Romeo, Université Paris-Diderot, France

16:50 **Peroxiredoxin 6 is essential for the antioxidant protection of human spermatozoa**
Cristian O'Flaherty, McGill University, Canada

17:15 **Short oral presentations upon abstracts submission** (7 minutes for presentation + 3 minutes for questions)

Among presentations already validated:

Effect of Omega-3 polyunsaturated fatty acids EPA and DHA on oxidative stress in Duchenne and Becker muscular dystrophy

Tomas Almeida, Centro Médico Nacional Siglo XXI, Mexico

Nrf2-dependent mechanisms mediate upregulation of stem cell factor by phospholipid oxidation products

Valery Bochkov, University of Graz, Austria

The antioxidant responses of neuronal cells against bilirubin-induced oxidative stress

Cristina Bellarosa, Fondazione Italiana Fegato ONLUS, Italy

NOSH-aspirin a chimera that releases no and H2S modulates redox-sensitive signaling pathways in cancer cells

Khosrow Kashfi, City University of New York School of Medicine, USA

NADPH Oxidase derived ROS in diabetic complications

Karin Agnes Maria Jandeleit-Dahm, Monash University, Australia

Triplet excited carbonyls and singlet oxygen in photon emission from skin

Ankush Prasad, Palacky University, Czech Republic

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 Novel mechanistic links of oxidative stress, mitochondrial damage and regulated cell death
Carsten Culmsee, Philipps-Universität Marburg, Germany

12:05 Short oral presentations upon abstracts submission (7 minutes for presentation + 3 minutes for questions)

Among presentations already validated:

Selenite ameliorates arsenite-induced cytotoxicity in PC12 cells via modulating apoptosis
Mostafizur Rahman, Hokkaido University, Japan

Date seeds polyphenols and their antioxidant effect in human after acute consumption
Carine Plataf, United Arab Emirates University, United Arab Emirates

Cellular redox status as a key determinant in health and disease – perspectives on interactions of carcinogens, polyphenols and fatty acids
Wentzel Christoffel Andreas Gelderblom, Cape Peninsula University of Technology, South Africa

12:30 Lunch break & poster session

14:00 Short oral presentations upon abstracts submission (7 minutes for presentation + 3 minutes for questions)

17:00 Concluding remarks by Paris Redox 2018 chairpersons

Paris Redox Awards 2018

18:00 End of Paris Redox 2018 Conference