We are pleased to announce the organization of the 23rd International Conference on Oxidative Stress Reduction, Redox Homeostasis & Antioxidants "Paris Redox 2021" which will be held on October 13-15, 2021 which will be held as Virtual Congress and will be hosted in Paris.

Last year, History and I presume that many books will be written about that year. For ISANH, it was the first time in 22 years that we could not get together in Paris for our Annual Meeting. After an extensive discussion among the scientific and organizing committees, we decided to organize our 22nd World Congress, Paris Redox 2020, as an online meeting only. During the meeting all registered attendees had unlimited access to the platform whenever they wished at any time. To our pleasant surprise, we had many participants from all continents and having a meeting online was received extremely well. The possibility to look at talks more than once and interact with speakers in the App was used by many participants. The meeting was definitely rising above our expectations.

In the upcoming meeting, we will discuss Redox signaling as a wide spectrum that means that submissions on reactive oxygen species, reactive nitrogen species and reactive sulfur species are very much welcome. In our opinion the inclusion of multiple reactive species as driving forces of redox signaling will significantly broaden our scope. As may be clear from the literature, lifestyle, diet and the microbiome are becoming driving forces in the modulation of the Redox status. Clinical and experimental approaches in that field are subjects we would like to discuss. Other clinical and animal studies which aim at the modulation of the Redox status and means to measure that will be the subject of many talks in the meeting. To further elucidate the multiple mechanisms of redox control in oxidative stress-related pathologies and aging, we also welcome data on the identification and dissection of the function of the key players in reactive species-related redox processes.

Paris Redox 2021 will surely make an eminent contribution to a better understanding of the reactive species-induced redox control in physiological conditions and various pathologies. This will lead to new therapeutic and disease-preventive agents. We therefore invite you to submit papers on reactive species related to health and disease ranging from fundamental and technical aspects to experimental and clinical diseases.

Among the Topics which will be discussed during 3 days congress:

- Redox 2021: Recent Advances & Perspective
- Gut, Microbiome and Redox: Focus on Covid-19 Infections
- Brain, Neurodegenerative Diseases and Redox
- Ageing & Telomeres 2021: Advances and Perspective
- Redox Medicine: Innovations & Clinical Studies

Let us together make the 2021 Paris Redox meeting a resounding success. All our warmest regards.

Prof. Harry van Goor
President of ISANH
Department of Pathology and Medical Biology, University Medical Center
Groningen, The Netherlands
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<th>PARIS REDOX SPEAKERS</th>
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<td>Lariisa Van Eijk, University Medical Center Groningen, The Netherlands</td>
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<td>Diana O. Perkins, University of North Carolina, USA</td>
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<td>Akhilesh B. Reddy, Perelman School of Medicine, The University of Pennsylvania, USA</td>
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<td>Determinants of telomere length across human tissues</td>
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<td>Brandon L. Pierce, The University of Chicago, USA</td>
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**Key Dates to Remember**

- **Early Registration**: July 20, 2021
- **Short Oral Submission**: September 25, 2021
- **Poster Submission**: September 30, 2021

[www.isanh.net](http://www.isanh.net)
**Paris Redox 2021**

23rd International Conference on

**Oxidative Stress, Redox Homeostasis & Antioxidants 2021**

October 13-15, 2021 – Paris, France & Online

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**Workshop**

**Wednesday, October 13, 2021**

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**How to Evaluate Oxidative Stress & Antioxidants Activities**

*14h00 – 18h00*

Presented by:

**Ginette Deby-Dupont**, University of Liège, Centre for Oxygen, Research & Development (CORD), Liege, Belgium

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Among the sessions which will be addressed:

- Present the latest advances and perspectives on oxidative stress and antioxidants
- Present all methods used to evaluate Oxidative Stress & Antioxidants Activities in different matrices and models
- Discuss the different methods of measuring oxidative stress in humans and present the controversies related to these methods

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Full agenda and information, please follow this link.

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**Workshop Agenda**
09:00    
Introduction Remarks

Harry van Goor, President of ISANH, University Medical Center, Groningen, the Netherlands

9h00 – 12h30

Session 1 – Redox 2021: Recent Advances & Perspectives

The Reactive Species Interactome: What's New?
Laurent Chatre, ISTCT, CNRS, Université de Caen-Normandie, France

Metabolic Remodeling via Mitochondrial Bioenergetic Perturbation
Ruma Banerjee, University of Michigan Medical School, USA

Maintenance of ER Homeostasis through Redox Regulation
Ryo Ushioda, Kyoto Sangyo University, Japan

Skeletal Muscle Redox Signaling in Rheumatoid Arthritis
Johanna T. Lanner, Karolinska Institute, Sweden

Physiological Roles of 3-Mercaptopyruvate Sulfurtransferase in the Cardiovascular System
Andreas Papapetropoulos, National and Kapodistrian University of Athens, Greece

Redox and Progeria: Advances and Perspective
Ricardo Villa-Bellosa, University of Santiago de Compostela, Spain

Short Oral Presentations (3 slots)

Oxidative State of Protein Disulfide Isomerase Regulates Mitochondrial Function
Zhi-wei Ye, Medical University of South Carolina, USA

13h00 – Lunch Break

13h45 – 15h30

Red Blood Cells as a "Central Hub" for Sulfide Bioactivity: Scavenging, Metabolism, Transport, and Cross-Talk with Nitric Oxide
Miriam Margherita Cortese-Krott, Heinrich Heine University Düsseldorf, Germany

Ferrous Iron-Dependent Pharmacology: Recent Advances & Perspectives
Adam R Renslo, University of California, USA

Effects of fructose Removal from the Diet on Mitochondria and Oxidative Stress
Luisa Cigliano, University of Naples Federico II, Italy
Short Oral Presentations (3 slots)

15h30 – Coffee Break

15h45 – 18h30

Session 2 – Gut Microbiome & Redox in Covid-19 Infections

COVID-19: Immunopathology, Pathophysiological Mechanisms, and Treatment Options
Larissa Van Eijk, University Medical Center Groningen, the Netherlands

Oxidative Stress as Key Player in Severe Acute Respiratory Syndrome Coronavirus (SARS-CoV) Infection
Livan Delgado Roche, Laboratorios Liomont, Mexico

Decreased Availability of Nitric Oxide and Hydrogen Sulfide is a hallmark of COVID-19
Gopi Kolluru, Louisiana State University Health Sciences Center-Shreveport, USA

Prediction of Survival Odds in COVID-19 by Zinc, Age and Selenoprotein P as Composite Biomarker
Lutz Schomburg, Institut für Exper. Endokrinologie, Charité – Universitätsmedizin, Germany

N-acetylcysteine (NAC) and Hydrogen Sulfide (H₂S): A Convenient Rationale for Coronavirus Disease 2019 (COVID-19)?
Arno Bourgonje, University Medical Center Groningen, The Netherlands

Short Oral Presentations (5 slots)

18h40: End of Second Day
9h00 – 10h45

Session 3 – Brain, Neurodegenerative Diseases and Redox

Targeting Transcription Factor NRF2 in Neurodegenerative Diseases
Antonio Cuadrado, Universidad Autonoma de Madrid, Spain

Potential Roles of Redox Dysregulation in the Development of Schizophrenia
Diana O. Perkins, University of North Carolina, USA

Targeting the BACH1-NRF2 axis
Laureano de la Vega, School of Medicine, University of Dundee, United Kingdom

Short Oral Presentations (3 slots)

10h45 – Coffee Break

11h00 – 13h25

Session 4 – Ageing & Telomeres 2021: Advances and Perspective

New Methods to Evaluate Telomeres
Nedime Serakinci, Special Health Adviser, Turkish Republic of Northern Cyprus Presidency, Cyprus

The Impact of Oxidative DNA Damage and Stress on Telomere Homeostasis
Patricia L. Opresko, University of Pittsburgh Graduate School of Public Health & UPMC Hillman Cancer Center, USA

Beneficial and Detrimental Effects of Reactive Oxygen Species on Lifespan
Jeremy Van Raamsdonk, McGill University, Montreal, Canada

Telomere Length and Cardiovascular Diseases
Nihal Inandiklioglu, Yozgat Bozok University, Turkey

Determinants of Telomere Length across Human Tissues
Brandon L. Pierce, the University of Chicago, USA

Redox Clockworks: The Importance of Time
Akhilesh B Reddy, The Francis Crick Institute, United Kingdom

Peroxiredoxin Promotes Longevity and H2O2-resistance in yeast through Redox-modulation of Protein Kinase A
Mikael Molin, Division of Systems Biology, Chalmers University of Technology, Sweden

13h25 – 14h10 Lunch Break
Short Oral Presentations (4 slots)

Dynamic of Telomere Length Change in Two Groups of Patients (Acute Myocardial Infarction and Haemodialysis Patients) and Relation with Redox Status

Jelena Kotur-Stevuljević, University of Belgrade, Serbia

14h50

Session 5 – Redox Medicine: Innovations & Clinical Studies

Raising the ‘Good’ Oxidants for Immune Protection

Ulla Knaus, University College Dublin, Ireland

H₂S Releasing Anti-inflammatory drug, in combination with the Effects of H₂S on the Microbiome

John L. Wallace, University of Toronto, Canada

Redox-Modulating Agents in the Treatment of Viral Infections

Lucia Nencioni, “Sapienza” University of Rome, Italy

Targeting Autophagy to Counteract Obesity-Associated Oxidative Stress

Federico Pietrocola, Karolinska Institute, Department of Biosciences and Nutrition, Sweden

16h30 – 16h45 – Coffee Break

Redox Medicine and Ferroptosis

Brent R Stockwell, Columbia University, USA

The Anti-inflammatory Effects of Nrf2 Activation

Albena T. Dinkova-Kostova, School of Medicine, University of Dundee & Ninewells Hospital & Medical School, United Kingdom

Call for Innovations:

The scientific committee invites you to present your innovative research in oxidative stress & antioxidant related fields.

Short Oral Presentations (3 slots)

18h10: Paris Redox Awards

18h30: End of the Third Day