ANNUAL MEETING
SFRR-E 2021
Belgrade, Serbia, 15-18 June

Redox Biology in the 21st Century:
A New Scientific Discipline

PRELIMINARY PROGRAMME

PRESENTED VIRTUALLY

ORGANIZED BY

Society for Free Radical Research Europe (SFRR-E)

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LOCAL ORGANIZER

Serbian Society for Mitochondrial and Free Radical Physiology
Bato Korac, Aleksandra Jankovic, Andjelika Kalezic

Dear Colleagues,

"Those who were fortunate to wake up this morning in Belgrade may believe that they have accomplished enough in their lives. To insist on more than this would be merely immodest" (*Serbian poet and writer Dusko Radovic*).

With these words, we would like to warmly welcome you to the virtual SFRR-E 2021 annual meeting *"Redox Biology in the 21st Century: A New Scientific Discipline"* from June 15-18, 2021, presented from Belgrade, Serbia.

Belgrade (Serbian: Beograd, meaning "white city") is the capital of Serbia and one of the oldest cities in Europe. It lies at the confluence of the Sava and Danube rivers, the position that defined Belgrade as the Door to Europe, the meeting point between East and West, North and South. In its 7000-year-old history, our city was demolished more than forty times, each time reborn and resurrected, like the Phoenix. Today, Belgrade unites diversity, creating a unique spirit of time. In the words of another Serbian writer, Momo Kapor: "Belgrade is not even in Belgrade, because Belgrade, in fact, is not a city; it is a metaphor, a way of life, a perspective on things".

There are a number of reasons one can say that the 21st century has given birth to a new scientific discipline – Redox Biology. And Redox Biology is also, like any other aspect of science and life, a perspective on things, with the cooperation of opposites in its basis. With a goal. Harmonized in health, out-of-balance in illness. Studying Redox biology: oxidants, antioxidants, redox active molecules and redox regulation is a multilayered endeavor to comprehend the complexity and uniqueness of this regulation. Understanding this complexity will allow for a greater understanding of biology and, life.

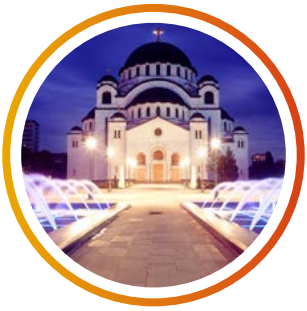
This Conference is an attempt to get to know more deeply the core of Redox Biology, the core of life.

With these warm thoughts, we are waiting to virtually meet you in June 2021.

On behalf of the Organizing Committee,

Bato Korac

Belgrade Fortress



Church of Saint Sava

Nikola Tesla Museum

Tuesday, 15 June 2021

12.00–14.00	Registration and poster set-up
14.00–14.30	Welcome address
14.30–16.00	Free radical research: My look into the future

Chairs: Biljana Buzadzic, Serbia; Mihajlo B Spasic, Serbia

Speakers

1. Salvador Moncada, UK: Adventures in pharmacology: A summing up
2. Barry Halliwell, Singapore: Reflections of an ageing free radical

16.00–16.30	Coffee break & posters
16.30–17.30	SFRR-Europe Basic Science Award Lecture

Roland Stocker, Australia: Arterial redox signalling controlling blood pressure in inflammation

17.30–19.00	Symposium 1

Dynamic subcellular targeting of redox signals in the cardiovascular system

Chairs: Thomas Michel, USA; Roberto Sitia, Italy

Speakers

1. Emrah Eroglu, Turkey: Multispectral imaging of intracellular oxidants
2. Iria Medraño Fernandez, Italy: Regulation of H_2O_2 transport by aquaporins
3. Massimo Santoro, Italy: Signaling by differentially-localized oxidants in vascular endothelial cells

19.00–20.00	Poster session
20.00	Welcome cocktail

Wednesday, 16 June 2021

08.00–09.00	**Early bird educational session**
	Fabio Virgili, Italy: Genetic variants as modulators of human (patho) physiology
09.00–10.30	**SFRR-Europe Catherine Pasquier Award Lecture**
	Aleksandra Jankovic, Serbia: Redox-metabolic synergy in adipose tissue
	SFRR-E Leopold Flohé Redox Pioneer Young Investigator Award Lecture
	Alessandro Vannini, UK/Italy: Old tricks from an old dog: Redox sensing by the RNA polymerase III transcription machinery
10.30–11.00	**Coffee break & posters**
11.00–12.00	**Oral presentations from submitted abstracts**
12.00–13.00	**SFRR-Europe Clinical Science Award Lecture**
	Giuseppe Valacchi, Italy: OxInflammation in Rett syndrome
13.00–14.00	**Lunch and poster viewing**
14.00–15.00	**Oral presentations from submitted abstracts**
15.00–16.00	**YIA symposium**
16.00–16.30	**Coffee break & posters**
16.30–18.00	**Symposium 2**
	Post-translational modifications in redox biology: Old issues and new perspectives – In memoriam to Arne Holmgren **Chairs**: Ivan Gout, UK; Joris Messens, Belgium **Speakers** 1. Joris Messens, Belgium: The dynamic redox language of the cell 2. Milos Filipovic, France: Protein persulfidation: the oldest solution for stress 3. Jovana Bakovic, UK: Understanding the role of coenzyme A and protein CoAlation in the function of peroxiredoxins and redox regulation
18.00–19.00	**General assembly**
19.00–21.00	**Poster session**

Thursday, 17 June 2021

08.00–09.00	Early bird educational session
	Tilman Grune, Germany: Biomarkers of redox biology in human studies
09.00–10.30	Symposium 3
	Early career researchers symposium **Chairs**: Matthew J Smith, UK; Paraskevi-Maria Psefteli, UK Speakers 1. Moran Benhar, Israel: Gasotransmitters and thiol redox signaling: a focus on regulated cell death 2. To be selected from submitted Abstracts 3. To be selected from submitted Abstracts
10.30–11.00	Coffee break & posters
11.00–12.00	Oral presentations from submitted abstracts
12.00–13.00	SFRR-Europe Annual Award Lecture
	Federico V Pallardó, Spain. Epigenetics in clinical practice. Examples in oxidative stress-related diseases
13.00–14.00	Lunch and poster viewing
14.00–15.00	Oral presentations from submitted abstracts
16.00–16.30	Coffee break & posters
16.30–18.00	Symposium 4
	Impact of pollution and other environmental stressors on cardiovascular disease and tissue damage **Chairs**: Andreas Daiber, Germany; Juan Sastre, Spain Speakers 1. Thomas Münzel, Germany: Environmental traffic noise triggers stress reactions, oxidative stress, inflammation and vascular dysfunction – comparison of studies in mice and men 2. Giuseppe Valacchi, Italy: Cutaneous and lung tissues as first targets of ozone induced damage 3. Sanjay Rajagopalan, USA: Air pollution by UFP/PM2.5 and cardiovascular health

18.00–19.00	Poster session
20.30	Conference dinner
	Botanical Garden

Friday, 18 June 2021

09.00–10.30	Symposium 5

Circadian rhythms and redox homeostasis: From redox signalling to chronotherapy

Chairs: Vanja Pekovic-Vaughan, UK; Bertrand Friguet, France

Speakers

1. Roman Kondratov, USA: Circadian mechanisms in oxidative stress and caloric restriction
2. Vanja Pekovic-Vaughan, UK: Redox regulation of circadian rhythms: Lessons from transcriptional and post-transcriptional feedback by NRF2
3. Annie Curtis, Ireland: Circadian Rhythms in the innate immune system: how the molecular clock shapes inflammation through redox control

10.30–11.00	Coffee break & posters
11.00–12.30	Symposium 6

Redox regulation of muscle and nerve responses to injury

Chairs: Daniela Caporossi, Italy; Christian Gonzalez-Billault, Chile

Speakers

1. George G Rodney, USA: Role of NADPH oxidases in remodelling of dystrophic skeletal muscle
2. Arnau Hervera, Spain: ROS regulation of axonal regeneration through release of exosomal NADPH oxidase 2 into injured axons
3. Malcolm J Jackson, UK: Redox cross-talk from motor nerves to skeletal muscle regulates muscle redox homeostasis

12.30–13.00	Closing remarks

The Annual Meeting of the Society for Free Radical Research Europe (SFRR-E) 2021, presented virtually, will be a meeting place for the latest scientific advancements at the interface of free radical research with life sciences and medicine. The meeting will bring together over 300 international experts from all continents from a broad range of disciplines, including chemistry, biology, and medicine, to discuss the impact of current research, concepts and applications of free radicals and antioxidants in life sciences and medicine. The exciting scientific program will feature plenary lectures, symposia, oral presentations from selected abstracts, young investigators award presentations, in addition to poster presentations. This Meeting of SFRR-E will give a unique opportunity to network and interact with the most prominent international scientists.

On behalf of the Organizing Committee,

Bato Korac

Prof. Bato Korac

VENUE

Presented virtually

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