CEPID de Processos Redox em Biomedicina
Redoxoma

SUPPORT:
FAPESP
Proc. FAPESP 2013/07937-8

2nd CEPID Redoxoma meeting with the Advisory Committee

February **13 -14**, 2017

Instituto de Química/USP - Bloco 6 Superior - Anfiteatro Cinza

Program

February 13, 2017 - Monday	
8.30–8.50 am	Welcome to the 2nd CEPID Redoxoma meeting with the advisory committee ***Ohara Augusto***
8.50–8.55 am	Aim 1- Biomolecule oxidation and function ***Marisa Gennari de Medeiros***
8.55–9.25 am	Lipidomic analysis of XPC and MRC-5 cells submitted to UVA irradiation ***Marcos Yukio Yoshinaga***
9.35–10.05 am	Natural photosensitizers ***Mauricio Baptista***
10.45–10.50 am	Aim 2- Thiol-based redox proteins ***Luis E. S. Netto***
10.50–11.20 am	Ohr plays a central role in bacterial responses against fatty acid hydroperoxides and peroxynitrite ***Luis E. S. Netto***
11.40 am–12.10 pm	Kinetics and mechanism of the reaction of human peroxiredoxin 1 and peroxiredoxin 2 with urate hydroperoxide ***Flávia C. Meotti***
2.00 –2.05 pm	Aim 3- Redox signaling ***Alicia Kowaltowski***
2.05 –2.35 pm	Mitochondrial morphology in cell differentiation ***Alicia Kowaltowski***
2.45 – 3.15 pm	Extracellular protein disulfide isomerase: a novel regulator of biomechanical adaptation in vascular cells ***Leonardo Y. Tanaka***
3.25 – 3.30 pm	Aim 4- Therapeutic, diagnostic and environmental applications of redox processes ***Francisco Laurindo***
3.30 – 4.00 pm	Effects of caloric restriction on mitochondrial calcium handling ***Sergio de Menezes***
4.10 – 4.40 pm	NOX2 regulates inflammation by modifying thioredoxin-1 redox state ***Lucia R. Lopes***
4.50 – 6.00 pm	Poster Session 1/Coffee

February 14, 2017 - Tuesday	
8.30–8.35 am	Technology transfer and technological advances ***Paolo Di Mascio***
8.35–9.05 am	Mass spectrometry "facility" ***Graziella Rosein*** *and* ***Sayuri Miyamoto***
9.15–9.45 am	Redox reactor for purification of industrial effluents ***Ana Maria da Costa Ferreira***
9.55–10.00 am	Education and science dissemination ***Carmen Fernandez***
10.00–10.30 am	Aging campaign in the "Sowing Science" project ***Carmen Fernandez***
10.40–11.50 am	Poster session 2/ Coffee
12.10 pm	General remarks by Rafael Radi and Balaraman Kalyanaraman and Closing

Advisory Committee Members

Balaraman Kalyanaraman, PhD
Chairman and Professor of Biophysics
Harry R. & Angeline E. Quadracci Professor in Parkinson's Research
Founder, Free Radical Research Center
Medical College of Wisconsin, USA

Rafael Radi, MD, PhD
Professor and Chairman, Departmento de Bioquímica
Director, Center for Free Radical and Biomedical Research
Facultad de Medicina, Universidad de la República, Uruguai

Gary M. Fiskum, PhD
M. Jane Matjasko Professor for Research in Anesthesiology and the Vice-Chair for Research
School of Medicine, University of Maryland, USA

What is CEPID REDOXOMA?

CEPID de Processos Redox em Biomedicina
Redoxoma

The mission of the Research Center of Redox Processes in Biomedicine-Redoxoma is to investigate the mechanisms by which oxidants and radicals act as mediators of physiological and pathophysiological networks attempting to transfer the research results to commercially and/or socially relevant applications, as well as to education and dissemination of knowledge.

The study of redox processes can elucidate disease mechanisms and reveal new therapeutic targets in terms of basic science. In practical terms, it can lead to the design of novel therapeutic, nutritional and environmental strategies and to the development/improvement of industrialized products. In education and knowledge diffusion terms, it provides a framework to address topics of general public interest, such as metabolism, diets, physical fitness, aging and environmental conservation.