



1st Workshop on Redox Processes in Biochemistry

May 21-22, 2014
São Paulo
Brazil
Instituto de Química
Universidade de São Paulo

Program

Wednesday | May 21st 2014 | Afternoon

14:00 - Marcelo Bonini

Nitrosation of Suppressor of Cytokine Signaling by NOS1 is a critical initiation step of the inflammatory process triggered by TLR4 activation

15:00 - Denise Fernandes

NADPH oxidase Nox1 activation by protein disulfide isomerase gain-of-function in vascular cells

16:00 - *Coffee Break*

16:30 - Technical seminar on mass spectrometry

Seminário técnico em espectrometria de massas

Thursday | May 22nd 2014 | Morning

9:00 - Albert Girotti

Formation, translocation and reductive turnover of lipid hydroperoxides in biological systems

10:00 - Sayuri Myamoto

Lipid-protein interaction studies involving cytochrome c and cholesterol hydroperoxides and aldehydes

11:00 - *Coffee Break*

11:30 - Andres Trotchansky

Mechanisms and biological consequences of lipid oxidation and nitration

Thursday | May 22nd 2014 | Afternoon

14:00 - Madia Trujillo

Mycoredoxina/mycothiol, analogous of glutathione/glutaredoxin, as peroxiredoxin reducing agentes in *Mycobacterium tuberculosis*

15:00 - Ari Zeida

Molecular basis of thiol oxidation by peroxides

16:00 - *Coffee Break*

16:30 - Luis Eduardo Soares Netto

Unique properties of Ohr enzymes: structure, biochemistry and phylogenetic distribution