



## Scientific Program

### Day One

21<sup>st</sup> October | Monday

From 8:00	Registration
8:30	Opening address
8:45-9:30	Chair: <b>Paolo Di Mascio</b> , University of São Paulo, Brazil <b>Plenary Lecture: Helmut Sies</b> , University of Düsseldorf, Germany <i>"Some Reflections on Oxidative Stress and Redox Biology"</i>
9:30-9:55	<b>Session one: Brain/neurodegenerative diseases/inflammation</b> Chair: <b>Junji Terao</b> , The University of Tokushima, Japan <i>"Role of dietary flavonoids on oxidative stress in the central nervous system"</i>
9:55-10:15	<b>De-Xing Hou</b> , Kagoshima University, Japan <i>"Garlic organosulfur compounds as a potential anti-inflammatory agent: molecular and animal evidence"</i>
10:15-10:30	Selected Presentation: Ana Helena S. Oliveira, Federal University of Rio Grande do Norte, Brazil <i>"Proteomic analysis in response to vitamin b6 therapy during oxidative stress induced by pneumococcal meningitis in rats"</i>
10:30-11:00	Coffee break
	<b>Session two: Advanced analytical strategies for oxidant and antioxidant analysis</b> Chair: <b>Sayuri Miyamoto</b> , University of São Paulo, Brazil
11:00-11:25	<b>Norberto Peporine Lopes</b> , University of São Paulo, Brazil <i>"Advances in MALDI-MS/MS for polyphenols analysis"</i>
11:25-11:45	<b>Ana Paula Loureiro</b> , University of São Paulo, Brazil <i>"Saliva as a promising matrix for biomonitoring of redox-modified DNA bases"</i>
11:45-12:00	Selected presentation: Priscila R. Santos, University of São Paulo, Brazil <i>"Behavior of the thermal diffusivity of native and oxidized human low-density lipoprotein solutions"</i>
12:00-14:00	Lunch
14:00-14:25	<b>Session three: Vascular Function and metabolic syndrome</b> Chair: <b>Francisco Laurindo</b> , University of São Paulo, Brazil <i>"Nox Family NADPH oxidases in vascular cells: mechanisms and therapeutic implications"</i>
14:25-14:45	<b>Naomi Osakabe</b> , Shibaura Institute of Technology, Japan <i>"Flavan 3-ols bioactivities on metabolic syndrome-a new angle of observation"</i>
14:45-15:05	<b>Yoshichika Kawai</b> , Nagoya University, Japan <i>"Specific localization of quercetin glucuronides in macrophages: new insights into the biological actions of dietary flavonoids at sites of inflammation"</i>
15:05-15:20	Selected presentation: Alexandros Papadimitriou, University of Campinas, Brazil <i>"Theobromine cocoa prevents extracellular matrix accumulation via activation of NAD<sup>+</sup>-dependent deacetylase sirtuin-1 in experimental diabetes mellitus"</i>
15:20-15:35	Selected presentation: Eliziane Patricio, University of São Paulo, Brazil <i>"Underlying the pro-oxidant effects of urate hydroperoxide on redox modulated proteins: a pivotal role in inflammation"</i>
15:35-16:05	Coffee break
16:05-16:35	Chair: <b>Paolo Di Mascio</b> , University of São Paulo, Brazil Special Lecture: <b>Prof. Jean Cadet</b> , CEA-Grenoble, France <i>"Oxidatively generated damage to cellular DNA"</i>
16:35-18:50	<b>Poster presentation</b>
19:00-21:30	Coquetel/Banquet with Brazilian Music

<b>8:45-9:10</b>	<b>Session one: Redox signalling/Cancer/System biology</b> Chair: <b>Hitoshi Ashida</b> , Kobe University, Japan <i>"Effects of flavonoids on the expression system of drug-metabolizing enzymes"</i>
<b>9:10-9:30</b>	<b>Glauca R. Martinez</b> , Federal University of Paraná, Brazil <i>"Effects of flavonoids and melanin on DNA oxidation by singlet molecular oxygen"</i>
<b>9:30-9:50</b>	<b>Kayoko Shimoi</b> , Shizuoka University, Japan <i>"Chemopreventive effects of flavonoids on the breast cancer development"</i>
<b>9:50-10:10</b>	<b>Diego Bonatto</b> , Federal University of Rio Grande do Sul, Brazil <i>"Toxicological and oxidative stress effects of the different substances in tobacco smoke on human embryonic development by a systems chemo-biology approach"</i>
<b>10:10-10:25</b>	Selected Presentation: <b>Juliana D. Zeidler</b> , Butantan Institute, Brazil <i>"PMA triggers oxidative stress and apoptosis in H-RasV12-dependent human malignant keratinocytes"</i>
<b>10:25-11:00</b>	Coffee break
	<b>Session two: Carotenoids and other phytochemicals</b> Chair: <b>Paolo Di Mascio</b> , University of São Paulo, Brazil
<b>11:00-11:25</b>	<b>Delia Rodrigues Amaya</b> , University of Campinas, Brazil <i>"Processing effects on food carotenoids: Impact on human health"</i>
<b>11:25-11:45</b>	<b>Koichi Aizawa</b> , Kagome Company, Japan <i>"Enhancement of in vivo radical reducing ability of lycopene"</i>
<b>11:45-12:05</b>	<b>Lydia Fumiko Yamaguti</b> , University of São Paulo, Brazil <i>"Occurrence and biosynthesis of biflavonoids"</i>
<b>12:05-12:25</b>	<b>Dulcineia Abdalla</b> , University of São Paulo, Brazil <i>"Identification of microRNAs involved in the antiangiogenic activity of polyphenols"</i>
<b>12:25-14:00</b>	Lunch
	<b>Session three: Stress response/Adaptation/Proteasome</b> Chair: <b>Akira Murakami</b> , Kyoto University, Japan <i>"Green tea polyphenol effects on antioxidant enzymes and molecular chaperone"</i>
<b>14:00-14:25</b>	<b>Hirofumi Arai</b> , Kitami Institute of Technology, Japan <i>"Anti-allergic functions of polyphenols"</i>
<b>14:25-14:45</b>	<b>Marilene Demasi</b> , Butantan Institute, Brazil <i>"Redox Control of 20S Proteasome Gating"</i>
<b>14:45-15:05</b>	Selected presentation: <b>Kaio Vitzel</b> , University of São Paulo, Brazil <i>"The involvement of oxidative stress in skeletal muscle dysfunction of streptozotocin-induced diabetic rats"</i>
<b>15:05-15:20</b>	Coffee break
	<b>Session four: Biomolecule damage and biomarker analysis</b> Chair: <b>Yoji Kato</b> , Hyogo Prefectural University, Japan <i>"Detection of protein tyrosine modifications by mass spectrometry and antibodies"</i>
<b>16:00-16:25</b>	<b>Sayuri Miyamoto</b> , University of São Paulo, IQ, Brazil <i>"Lipid hydroperoxides: singlet oxygen generation and protein modification"</i>
<b>16:25-16:45</b>	Selected Presentation: <b>Thiago C. Genaro-Mattos</b> , University of São Paulo, Brazil <i>"Cytochrome c adduction promoted by cholesterol derived aldehydes – implications to protein-membrane binding"</i>
<b>16:45-17:00</b>	Chair: <b>Marisa H. G. Medeiros</b> , University of São Paulo, Brazil <b>Plenary Lecture: Ohara Augusto</b> , University of São Paulo, Brazil <i>"Oxidative mechanisms in protein aggregation"</i>
<b>17:00-17:45</b>	Closing remarks