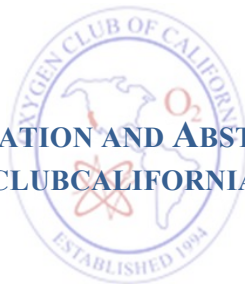


# OXYGEN CLUB OF CALIFORNIA WORLD CONGRESS 2014

7-10 MAY 2014  
UNIVERSITY OF CALIFORNIA DAVIS CONVENTION CENTER

## OXIDANTS AND ANTIOXIDANTS IN NUTRITION AND REDOX BIOLOGY IN DEVELOPMENT AND HEALTH



**FOR INFORMATION ON REGISTRATION AND ABSTRACT SUBMISSION PLEASE VISIT  
OXYCLUBCALIFORNIA.ORG**

### SCIENTIFIC PROGRAM

#### *FLAVONOIDS: FROM METABOLISM TO DIETARY GUIDELINES*

[2-<sup>14</sup>C](–)-Epicatechin metabolomics: absorption and metabolism in the small intestine and colon –  
*Alan Crozier*

miRNA as molecular targets of flavonoid metabolites involved in preservation of endothelial cell  
function – *Dragan Milenkovic*

Flavanols and cardiovascular health: clinical outcomes of the FLAVIOLA project (Seventh  
Framework Programme of the European Commission) – *Malte Kelm*

Anthocyanin intake and the risk of cardiovascular disease – *Aydin Cassidy*

Flavonoids improve spatial memory performance and increase hippocampal brain-derived  
neurotrophic factor – *Jeremy P. Spencer*

Dietary guidelines on flavonoids – Where are we today? – *Joanne R. Lupton*

#### *VITAMIN E IN TRANSLATIONAL MEDICINE*

Vitamin E and nonalcoholic fatty liver disease – *Arun Sanyal*

Isoforms of vitamin E differentially regulate inflammation – *Joan M. Cook-Mills*

Anti-inflammatory functions of vitamin E metabolites – *Qing Jiang*

Vitamin E and apoptosis: free radical scavenging versus regulation of enzymatic lipid peroxidation –  
*Valerian Kagan*

Promotion of plasma membrane repair by vitamin E – *Paul L. McNeil*

α-Tocotrienol: Multimodal protection against stroke – *Chandan K. Sen*

The location, activity, and behavior of α-tocopherol in membranes – *Jeffrey Atkinson*

## *REDOX SIGNALING AND SYSTEMS BIOLOGY IN HEALTH*

Thiol Signaling, redox circuits, and systems biology in health status – *Dean P. Jones*

Coupling metabolism to local circadian clock via reversible hyperoxidation of peroxidoxin III – *Sue Goo Rhee*

Role of selenoproteins in insulin-regulated energy metabolism – *Holger Steinbrenner*

Brain cholesterol oxidation in the pathogenesis of Alzheimer's disease – *Giuseppe Poli*

Fusion and fission: interlinked processes critical for mitochondrial health – *David Chan*

Mitochondrial dynamics – *Jodi Nunnari*

Measuring and manipulating mitochondrial ROS signals – *Michael Murphy*

Metabolomics analyses of mitochondrial metabolism – *Oliver Fiehn*

## *THE FIRST 1000 DAYS: FROM METABOLIC SIGNAL TO SOCIETAL IMPACT*

From signal to society: what needs to be done – *Klaus Kraemer*

Gut microbiota: nutritionally and environmentally sensitive ecosystems that influence the host biology – *Mark J Mannary*

The damaged gut: enteropathy, enteric infection, and malnutrition – *Christine P. Stewart*

Carotenoid and retinoid signaling in early development: priming of metabolic diseases – *Johannes von Lintig*

Integration of basic biology and public health research: bringing research disciplines together – *Lindsay H Allen*

Developmental programming for obesity: epigenetic modifications in the hypothalamus – *Mulchand Patel*

Early nutrition: consequences for the immune system – *Charles Stephensen*

## *ROUND TABLE DISCUSSION. MICRONUTRIENTS: THE FIRST 1000 DAYS*

Discussion Leader: *Helmut Sies*

## *ROUND TABLE DISCUSSION. MITOCHONDRIAL SIGNALING IN HEALTH AND DISEASE*

Discussion Leader: *Michael Murphy*

## *SHORT TALKS BY YOUNG INVESTIGATORS*

To be selected from submitted abstracts