



# Forthcoming FRBM SPECIAL ISSUE

## *4-Hydroxynonenal and Related Lipid Oxidation Products*



The issue will contain a collection of state-of-the art review articles, providing an updated overview of HNE involvement in human pathophysiology, hopefully very useful for researchers in the field, graduate and post-graduate students as well as grant awarding agencies.

The issue will be dedicated to the discoverer and ever best scientist of HNE, Hermann Esterbauer, on the occasion of the 20th anniversary of his death, anniversary that will be celebrated by a special HNE Club Meeting, to be held in Graz, in September 2017

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### Guest Editors:

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## List of confirmed review articles for this special issue:

- 1) Enzymatic and Nonenzymatic Detoxification of 4-Hydroxynonenal Methodological Aspects and Biological Consequences**, Giancarlo Aldini (University of Milan, Italy)
- 2) Chemistry and Analysis of HNE and Other Prominent Lipid Oxidation Compounds**, Corinne Spickett (Aston University, Birmingham, UK)
- 3) Immunohistochemistry of HNE and Related Aldehydes**, Kamelija Zarkovic (University of Zagreb, Croatia)
- 4) Role of Glutathione S-Transferase in Protecting Against HNE Toxicity**, Yogesh Awasthi (University of North Texas, Forth Worth, TX, USA)
- 5) HNE-Modified Proteins in Metabolic Diseases**, Tilman Grune (German Institute of Human Nutrition, Nuthetal, Germany, and Werner Siems (Kortexmed Institute of Medical Education, Bad Harzburg, Germany)
- 6) Genotoxicity of Lipid Oxidation Compounds**, Peter Eckl (University of Salzburg, Austria)
- 7) Pro-Apoptotic Effects of Lipid Oxidation Products**, Huveyda Basaga (Sabanci University, Istanbul, Turkey)
- 8) HNE-Mediated Cell Signaling**, Henry J. Forman (University of California, Los Angeles, CA, USA)
- 9) HNE-Induced Modulation of Cyclooxygenase: Updated Mechanistic Insight**, Koji Uchida (Nagoya University, Japan)
- 10) Oxidized Phospholipids and Phenotypic Polarization of Macrophages**, Norbert Leitinger (University of Virginia, USA)
- 11) Pro-Atherogenic Effects of 4-Hydroxy-2-Nonenal**, Anne Nègre-Salvayre (CHU Rangueil, Toulouse, France)
- 12) Oxysterols and HNE Contribute to Plaque's Destabilization and Rupture**, Gabriella Leonarduzzi (University of Torino, Italy)
- 13) Cholesterol Oxidation and HNE in Colorectal Inflammation and Carcinogenesis**, Fiorella Biasi (University of Torino, Italy)
- 14) Cancer Growth Regulation by 4-Hydroxynonenal**,

Neven Zarkovic (Labos, Rudjer Boskovic Institute, Zagreb, Croatia)

- 15) HNE in The Alzheimer's Disease Brain or HNE in Neurodegenerative Diseases**, Allan Butterfield (University of Kentucky, Lexington, USA)
- 16) HNE and Isoprostanes in The Rett Syndrome**, Giuseppe Valacchi (Ferrara, Italy)
- 17) HNE in Down Syndrome**, Marzia Perluigi (La Sapienza University of Rome, Italy)
- 18) Oxysterols and The Metabolic Syndrome**, Luigi Luliano (La Sapienza University of Rome, Latina, Italy)
- 19) Lipid Oxidation Products in Diabetes**, Shlomo Sasson (The Hebrew University of Jerusalem, Israel)
- 20) HNE and Lipid Oxidation in Psychiatric Disorders**, Tommaso Cassano (Foggia, Italy) and Silvana Gaetani (Rome, Italy)
- 21) 4-Hydroxynonenal Metabolites and Adducts in Pre-Carcinogenic Conditions and Cancer**, Françoise Guéraud (Toulouse Cedex 3, France)
- 22) Monitoring Lipid Oxidation in Nutritional Biochemistry**, Brigitte Winklofer-Roob (Karl Franzens University Graz, Graz, Austria)
- 23) Pleiotropic Effects of Phospholipid Oxidation Products**, Valery Bochkov (Karl-Franzens-University Graz, Austria)
- 24) 4-Hydroxynonenal in Alcoholic Liver Injury**, Dennis Petersen (University of Colorado, USA)
- 25) Antioxidants and HNE in Regulation of Redox Homeostasis**, Elzbieta Skrzydlewska (Medical University of Bialystok, Poland)
- 26) Pathophysiology of Mitochondrial Lipid Oxidation**, Huiyong Yin (University of Chinese Academy of Sciences, Shanghai, China)
- 27) Lipid Oxidation Products in the Pathogenesis of Nash**, Gaetano Serviddio (University of Foggia, Italy)

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