**DESCRIPTION**

*BBA Molecular Basis of Disease* addresses the **biochemistry** and **molecular genetics** of **disease** processes and models of human disease. This journal covers aspects of aging, cancer, metabolic-, neurological-, and immunological-based disease. Manuscripts focused on using animal models to elucidate biochemical and mechanistic insight in each of these conditions, are particularly encouraged. Manuscripts should emphasize the underlying mechanisms of disease pathways and provide novel contributions to the understanding and/or treatment of these disorders. Highly descriptive and method development submissions may be declined without full review.

Given the complex regulation of gene expression by a vast network of miRNA's, manuscripts describing the regulation of (disease-associated) genes by single miRNAs will only be considered if they provide genuine, novel insight in a disease mechanism. Further, studies restricted to a single cell line will not be considered unless they present truly novel insights.

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**AUDIENCE**

Basic and clinical researchers studying molecular aspects of disease processes, Human geneticists, Biochemists, Molecular biologists, Cell biologists, Cell physiologists

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Grace L. Guo, Rutgers University, Piscataway, New Jersey, USA
Elly Hol, Universitair Medisch Centrum Utrecht (UMC Utrecht), Utrecht, Netherlands
Astrocytes, Glia, Alzheimer, Stroke, Parkinson, Neurogenesis
Nancy Ip, Hong Kong University of Science and Technology, Kowloon, Hong Kong
Developmental and molecular Neurobiology, Neurothrophic factors and their receptors, neuronal differentiation, neural regeneration

Takeshi Iwatsubo, University of Tokyo, Bunkyo-Ku, Japan
Cardiovascular diseases, Diabetes, Cell signaling, Cell death, autophagy, Mitochondria, Insulin, Growth factors, Intraorganelle communication

Valter D. Longo, University of Southern California, Los Angeles, California, USA
Aging, cell signaling, IGF-1, yeast models of aging

José E. Manautou, University of Connecticut, Storrs, Connecticut, USA
Hepatotoxicity, Model hepatotoxictins (e.g. acetaminophen, carbon tetrachloride), Hepatobiliary disposition of xenobiotics, Hepatoprotection, Peroxisome proliferators, Transport proteins, Covalent binding in hepatotoxicity, Reactive intermediates in hepatotoxicity

Sara Mole, University College London (UCL), London, UK
Aging, Alzheimer’s disease, Diabetes, Mitochondria, Neurodegeneration, Oxidative stress

Antonio Moschetta, Università di Bari, Bari, Italy
Nuclear Hormone Receptors, Liver Metabolic Disease, Gut-liver axis, Intestinal mucosa regeneration, -tumorigenesis, Transcriptional regulation of Cholesterol and Lipid Metabolism

Ram Nagaraj, University of Colorado School of Medicine, Aurora, Colorado, USA
Small heat shock proteins, glycation, oxidative stress, apoptosis, cataract, diabetic retinopathy

William Orr, Southern Methodist University, Dallas, Texas, USA
Aging, redox regulation, innate immunity, circadian rhythm, caloric restriction

Athanasios Papavasiliou, University of Athens Medical School, Athens, Greece
AGE/metabolic stress signaling, Bone mechanobiology, Molecular oncology, Signaling pathways in tumorigenesis, Signal transduction to transcription factors in health and disease

Samir Kumar Patra, National Institute of Technology Rourkela (NIT), Orissa, India
Epigenetic mechanisms, DNA and Histone modifications, DNA demethylase and DNA demethylation mechanisms, regulation of gene expression, membrane lipid raft structure and signaling, Ras-MAPK

Raghuwan Raju, Augusta University, Augusta, Georgia, USA
Mitochondria, sirtuin, trauma, sepsis, oxidative stress, inflammation

Hemachandra Reddy, Texas Tech University Health Sciences Center, Lubbock, Texas, USA
Aging, Amyloid Beta, Neurodegenerative diseases, Mitochondria and Mitochondrial therapeutics

Jun Ren, University of Wyoming, Cheyenne, Wyoming, USA
Cardiac, heart failure, stem cells, Akt kinase, Pim-1 kinase, myocardial biology

Mark Sussman, SDSU Heart Institute, San Diego, California, USA
Aging, Alzheimer's disease, Bioenergetics, Mitochondria, Neurodegeneration

Ya-Xiong Tao, Auburn University, Auburn, Alabama, USA
Kidney Genetic Disease, gene therapy, Polycystic kidney disease, Stem cells, regenerative medicine, Kidney Cancer

Massimo Zeviani, National Neurological Institute “Carlo Besta”, Milano, Italy
Mitochondrial Disease; Oxidative Phosphorylation; mitochondrial respiratory chain; mitochondrial DNA; mtDNA mutation.
**Zhuohua Zhang**, Central South University, Changsha, China
ubiquitin proteasomal degradation, Parkinson disease, protein folding, connexins, epigenetics

**Xiongwei Zhu**, Case Western Reserve University School of Medicine, Cleveland, Ohio, USA
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