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.

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

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**B. Therese Kinsella**, University College Dublin, Dublin, Ireland

Prostanoid; prostaglandin; thromboxane; G protein coupled receptor; cardiovascular; cancer; signalling

**Sergio Lavandero**, Universidad de Chile, Dallas, Texas, USA

Chronic diseases, cardiovascular diseases, diabetes, cell signaling, cell death, inflammation, autophagy, mitochondria, insulin, 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 hepatotoxins (e.g. acetaminophen, carbon tetrachloride) Hepatobiliary disposition of xenobiotics Hepatoprotection Peroxisome proliferators Transport proteins Covalent binding in hepatotoxicity Reactive intermediates in hepatotoxicity

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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

**Athanasios G. Papavassiliou**, University of Athens Medical School, Athens, Greece

AGE/metabolic stress signaling, Bone mechanobiology, Molecular oncology, Signaling pathways in tumorigenesis, cancer mechanobiology, 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 and Hedgehog signaling pathways, Cancer stem cell and pluripotency.

**Ragavan 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

**Manfredi Rizzo**, Università degli Studi di Palermo, Palermo, Italy

Diabetes, atherosclerosis, cardiovascular prevention, dyslipidemia, metabolic syndrome

**Luis Sobrevia**, Pontificia Universidad Católica de Chile, Santiago, Chile

endothelium; trophoblast; fetus; placenta; insulin resistance; diabetes; preeclampsia; obesity in pregnancy; membrane transport; membrane receptors; adenosine; nitric oxide; L-arginine; pH; endoplasmic reticulum stress; exosomes; extracellular vesicles

**Mark Sussman**, SDSU Heart Institute, San Diego, California, USA

Cardiac, heart failure, stem cells, Akt kinase, Pim-1 kinase, myocardial biology

**Russell H. Swerdlow**, University of Kansas School of Medicine, Kansas City, Kansas, USA

Aging, Alzheimer's disease, Bioenergetics, Metabolism, Mitochondria, Neurodegeneration

**Ya-Xiong Tao**, Auburn University, Auburn, Alabama, USA

Angela M. Valverde, Spanish National Research Council (CSIC), Biomedical Research Center in Diabetes and Associated Metabolic Diseases (CIBERDEM), Madrid, Spain

Insulin resistance; obesity; non-alcoholic fatty liver disease; incretins; brown adipose tissue

**Holly Van Remmen**, Oklahoma Medical Research Foundation, Oklahoma City, Oklahoma, USA

Mitochondria; aging; sarcopenia; oxidative stress

**Arthur J. Verhoeven**, Universiteit van Amsterdam, Academisch Medisch Centrum (AMC), Amsterdam Zuidoost, Netherlands

**Patricia Wilson**, University College London (UCL), London, UK

Kidney Genetic Disease, gene therapy, Polycystic kidney disease, Stem cells, regenerative medicine, Kidney Cancer

**Silvana Zanlungo**, Pontificia Universidad Católica de Chile, Santiago, Chile

cholesterol, Niemann-Pick, neurodegeneration, liver, lipids, oxidative stress

**Massimo Zeviani**, University of Cambridge, Cambridge, UK

Mitochondrial Disease; Oxidative Phosphorylation; mitochondrial respiratory chain; mitochondrial DNA; mtDNA mutation.
Yingmei Zhang, Zhongshan Hospital Fudan University, Shanghai, China, USA
Cardiovascular and metabolic disease

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INTRODUCTION

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