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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AUDIENCE

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, University of Chile, Santiago de Chile, Chile

Chronic diseases, cardiovascular diseases, diabetes, cell signalling, cell death, inflammation, autophagy, mitochondria, insulin, intraorganelle communication.

Valter D. Longo, University of Southern California, Los Angeles, California, United States of America

Aging, cell signalling, IGF-1, yeast models of aging

José E. Manautou, University of Connecticut Department of Pharmaceutical Sciences, Storrs, Connecticut, United States of America

Hepatotoxicity, Model hepatotoxics (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 disease, Diabetes, Energy metabolism, Metabolic hormones, Mitochondria, Neurodegeneration, Redox balance

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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 Denver School of Medicine, Aurora, Colorado, United States of America

Small heat shock proteins, glycation, oxidative stress, apoptosis, cataract, diabetic retinopathy

SAMIR PATRA, National Institute of Technology Rourkela Department of Life Science, Rourkela, India

Epigenetic mechanisms and gene expression, DNA demethylase enzyme, Cell signalling and epigenetic modulations, Histone 3 modifications and cancer, Gene regulation by miRNA in cancer, Membrane lipid raft signalling and epigenetic cross talk

Athanasios G. Papavassiliou, National and Kapodistrian University of Athens School of Health Sciences, 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

Raghavan Raju, Augusta University, Augusta, Georgia, United States of America

Mitochondria, sirtuin, trauma, sepsis, oxidative stress, inflammation

P. Hemachandra Reddy, Texas Tech University System, Lubbock, Texas, United States of America

Aging, Amyloid Beta, Neurodegenerative diseases, Mitochondria and Mitochondrial therapeutics., microRNAs, Mouse models, Oxidative stress, Diabetes, Obesity, Mitochondria-targeted molecules

Jun Ren, University of Wyoming Family Medicine Residency Program - Cheyenne, Cheyenne, Wyoming, United States of America

Manfredi Rizzo, University of Palermo, Palermo, Italy

Diabetes, atherosclerosis, cardiovascular prevention, dyslipidemia, metabolic syndrome

Luis Sobriva, Pontificial Catholic University of Chile, Santiago de Chile, Chile

Diabetes, insulin, adenosine, nitric oxide, diabesity, gestational diabetes, gestational diabesity, membrane transport, cell signalling, membrane receptors, obesity

Mark Sussman, San Diego State University Department of Biology, San Diego, California, United States of America

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

Russell H. Swerdlow, University of Kansas School of Medicine, Kansas City, Kansas, United States of America

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

Ya-Xiong Tao, Auburn University, Auburn, Alabama, United States of America

G protein-coupled receptor, melanocortin receptor, obesity

Angela Valverde, Biomedical Research Network Centre of Diabetes and Associated Metabolic Diseases, Madrid, Spain

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

Holly Van Remmen, Oklahoma Medical Research Foundation, Oklahoma City, Oklahoma, United States of America

Mitochondria, aging, sarcopenia, oxidative stress

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

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Mitochondrial Disease, Oxidative Phosphorylation, mitochondrial respiratory chain, mitochondrial DNA, mtDNA mutation.

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BBA Molecular Basis of Disease addresses the biochemistry and molecular genetics of disease processes and their models with a specific focus on human disease. The section covers metabolic, membrane, receptor and immunological disorders, and includes the biochemistry of differentiation disorders, tissue damage and aging. Manuscripts should emphasize the underlying mechanisms of disease pathways and provide novel contributions to the understanding and treatment of these processes. Highly descriptive and method development submissions may be declined without full review.

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