**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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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
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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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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.
Raghaban 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.
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endothelium; trophoblast; fetus; placenta; insulin resistance; diabetes; preclampsia; 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. Sweedlow, 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
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
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cholesterol, Niemann-Pick, neurodegeneration, liver, lipids, oxidative stress
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cardiovascular and metabolic disease

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