BIOCHIMICA ET BIOPHYSICA ACTA - MOLECULAR BASIS OF DISEASE
One of the nine topical journals of BBA

AUTHOR INFORMATION PACK

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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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**Grace L. Guo**, Rutgers University, Piscataway, New Jersey, USA
**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 hepatotoxican (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
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Aging, Alzheimer's disease, Diabetes, Mitochondria, Neurodegeneration, Oxidative stress

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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 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.

**Raghavan 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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Diabetes, atherosclerosis, cardiovascular prevention, dyslipidemia, metabolic syndrome

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

endothelium; trophoblast; fetus; placenta; insulin resistance; diabetes; pre eclampsia; 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

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

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.
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Cardiovascular and metabolic disease
Xiongwei Zhu, Case Western Reserve University School of Medicine, Cleveland, Ohio, USA
Neuroscience, Neurodegenerative diseases, Mitochondrial Oxidative Stress, Amyloid, Signal Transduction, Alzheimer's Disease, Parkinson's Disease
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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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