BIOCHIMICA ET BIOPHYSICA ACTA - GENERAL SUBJECTS
One of the 10 topical journals of BBA

AUTHOR INFORMATION PACK

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DESCRIPTION

BBA General Subjects accepts for submission either original, hypothesis-driven studies or reviews covering subjects in biochemistry and biophysics that have general scientific interest for a wide audience. Interdisciplinary studies are encouraged. Descriptive studies without biochemical or biophysical mechanistic evidence and insights are discouraged. Preferred topics are:

biomedicine: fundamental and emerging topics in biochemistry/biophysics with potential medical implications nanobiology/nanotechnology: nanoparticles, nanotoxicology, nanomedicine omics: genomics, proteomics, lipidomics, glycomics, bioinformatics experimentally addressing a defined biological question chemical biology: chemical compounds, drug mechanisms, synthesis of novel compounds, click chemistry structural biology: crystallography, NMR, multimeric proteins, protein dynamics, nucleic acids novel complexes: nucleic acids, pure natural compounds, synthetic compounds, protein complexes, nucleic acid derivatives cellular signaling: receptor signaling, protein phosphorylation cascades, phosphatases, secondary messengers, transcription regulation, gene expression glycobiology: sugar metabolites and metabolism, glycosylated proteins, membrane protein, glycosylation, glycomics redox biology: redox switches, glutathione and thioredoxin systems, oxygen and nitrogen radical species, superoxide, hydrogen peroxide, hydroxyl radical, nitric oxide, peroxides, hypoxia, redox regulation of transcription factors neurobiology: neuronal growth factors and nerve signaling, glial cells, autonomic and central nervous systems stem cells: differentiation, stem cell isolation and cultivation, growth factors imaging methodologies mechanistic characterization of compounds having biochemical importance and general interest (drug leads, toxicants, nutrients, metabolites). BBA General Subjects does not consider studies on the biological effects of crude extracts of natural sources unless the exact active molecules are identified, singularly characterized and evaluated.

AUDIENCE

Biochemists, molecular biologists, glycobiologists, developmental biologists

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Glycobiology, Congenital Disorders of Glycosylation, Glycosylation, Golgi, vesicular trafficking, ion homeostasis
Xiao-Dong Gao, Jiangnan University, Wuxi, Jiangsu, China
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Sara Goldstein, Hebrew University of Jerusalem, Jerusalem, Israel
Pulse radiolysis, kinetics, nitroxides, peroxyxynitrite, NO-donors, HNO donors, hydroxamic acids, nitroscarbonyls
Raffaella Gozzelino, Nova University of Lisbon, Lisboa, Portugal
Iron metabolism, Heme, Inflammation, Infection, Neurodegenerative diseases.
Lee M. Graves, The University of North Carolina at Chapel Hill School of Medicine, Chapel Hill, North Carolina, United States of America
Cellular mechanisms of drug resistance in cancer, Protein phosphorylation and protein kinase-mediated signaling pathways, application of proteomics, Protein kinase inhibitors, Regulation of metabolic enzymes by phosphorylation and interacting proteins

Elin Gray, Edith Cowan University, Joondalup, Australia
Cancer genetics, Molecular biology, Circulating tumour cells, Circulating tumour DNA, Exosomes, Single cell sequencing.

Yoichiro Harada, Kagoshima University, Kagoshima, Japan
Endoplasmic reticulum, Exosomes, Extracellular vesicles, Glucose metabolism, Glycosylation, Glycan metabolism

Rong-Qiao He, Chinese Academy of Sciences, Beijing, China
tau Proteins, Xenopus, Kinetics, Atomic Force Microscopy, Protein Denaturation and Folding

Johannes Herrmann, Rheinland-Pfälzische Technische Universität (RPTU), Kaiserslautern, Germany
mitochondrial biogenesis, protein targeting, redox biology, membrane biology, mitochondrial ribosomes, yeast genetics

Hidenori Ichijo, The University of Tokyo, Bunkyo-Ku, Japan
Endoplasmic-reticulum-associated protein degradation (ERAD), superoxide dismutase (SOD), NAMPT, necrosis (necrotic death), mitogen-activated protein kinase (MAPK), c-Jun N-terminal kinase (JNK), endoplasmic reticulum stress (ER stress), p38 MAPK, apoptosis signal-regulating kinase 1 (ASK1), cell death, osmotic swelling

Zahra Iqbal, Amstelveen, Netherlands
Patric Jansson, The University of Sydney, Sydney, New South Wales, Australia
Cancer, Drug Resistance, Drug targeting, Iron metabolism, Multidrug resistance, Oxidative stress

Anders H. Johnsen, Copenhagen University Hospital, København, Denmark
Neuropeptides, Post-Translational Protein Processing, Molecular Sequence Data, High Pressure Liquid Chromatography, Mass Spectrometry, Radioimmunoassay, protein chemistry

Hyun (Joy) Kim, Seoul National University, Gwanak-gu, South Korea
Membrane proteins, translocon, signal peptidase, endoplasmic reticulum, protein targeting

Yasuhiko Kizuka, Gifu University, Gifu, Japan
Glycosylation, Glycobiology, Epigenetics, Alzheimer’s disease, Sugar analog, Chemical biology

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mRNA translation, translation initiation factor eIF2, environmental stress, mTOR, protein phosphorylation, STATs, oncogenes, tumor suppressors, transgenic mice, lung cancer, breast cancer

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Cell culture, Cell signaling, Chelator, Epithelial-Mesenchymal Transition, Erythropoiesis, Ferritin, Hypoxia, Iron, Iron homeostasis, Metal chelator, Metastasis, Mitochondrial Diseases, Reactive Oxygen Species, ROS

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Glutaredoxins, Oxidation-Reduction, Molecular Sequence Data, Mitochondria, Oxidative Stress, Thioredoxins

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antibiotics, cardiac glycosides, antidiabetic and anticancer agents, Drug interaction, Drug toxicity, Drug transport, drug transport proteins, drug-disease interactions, immunosuppressants, OATP, Organic anion transporting polypeptides, pharmacokinetics, RNA interference, statins

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- **Biomedicine**: fundamental and emerging topics in biochemistry/biophysics with potential medical implications
- **Nanobiology**: nanoparticles, nanotoxicology, nanomedicine
- **Omic**: genomics, proteomics, lipidomics, glycomics, bioinformatics
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- **Structural Biology**: crystallography, NMR, multimeric proteins, protein dynamics
- **Cellular Signaling**: receptor signaling, protein phosphorylation cascades, phosphatases, secondary messengers
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