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

**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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Iron metabolism, Heme, Inflammation, Infection, Neurodegenerative diseases.
Elin Gray, Edith Cowan University, Joondalup, Australia
Cancer genetics, Molecular biology, Circulating tumour cells, Circulating tumour DNA, Exosomes, Single cell sequencing.

Kimberly Hamad-Schifferli, University of Massachusetts System, Boston, Massachusetts, United States of America
Nanomedicine, nano-biotechnology, nano-bio interfaces

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, TU Kaiserslautern University, Kaiserslautern, Germany
mitochondrial biogenesis, protein targeting, redox biology, membrane biology, mitochondrial ribosomes, yeast genetics

Hidenori Ichijo, The University of Tokyo, Tokyo, Japan
Endoplasmic-reticulum-associated protein degradation (ERAD), superoxide dismutase (SOD), NAMPT, stress granule, necrosis (necrotic death), MST2 (Mammalian Sterile 20-like kinase 2), mitogen-activated protein kinase (MAPK), c-Jun N-terminal kinase (JNK), endoplasmic reticulum stress (ER stress), MST1 (Mammalian Sterile 20-like kinase 1), p38 MAPK, apoptosis signal-regulating kinase 1 (ASK1), shear stress, cell death, osmotic swelling

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Cancer, Drug Resistance, Drug targeting, Iron metabolism, Multidrug resistance, Oxidative stress

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Joy Kim, Gifu University, Gifu, Japan
Glycosylation, Glycobiology, Epigenetics, Alzheimer’s disease, Sugar analog, Chemical biology

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

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Proteomics, Multi-omics, Functional Analyses, Microbial Communities, Stable Isotope Labeling

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Joseph Renato Pinto, Florida State University College of Medicine, Tallahassee, Florida, United States of America
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Olive Rackham, Harry Perkins Institute of Medical Research, Perth, Australia
synthetic biology, RNA-binding proteins, ribosomes, protein engineering, directed evolution

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- **biomedicine**: fundamental and emerging topics in biochemistry/biophysics with potential medical implications
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- **chemical biology**: chemical compounds, drug mechanisms, synthesis of novel compounds, click chemistry
- **structural biology**: crystallography, NMR, multimeric proteins, protein dynamics, nucleic acids
- **cellular signaling**: receptor signaling, protein phosphorylation cascades, phosphatases, secondary messengers, transcription regulation
- **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**: 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.

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