TABLE OF CONTENTS

- Description p.1
- Audience p.1
- Impact Factor p.1
- Abstracting and Indexing p.2
- Editorial Board p.2
- Guide for Authors p.5

DESCRIPTION

*BBA General Subjects* accepts for submission either original, hypothesis-driven studies or reviews covering subjects in biochemistry and biophysics that are considered to have general interest for a wide audience. Manuscripts with interdisciplinary approaches are especially encouraged. Preferred topics are:

**Biomedicine**: fundamental and emerging topics in biochemistry/biophysics with potential medical implications

**Nanobiology/Nanotechnology**: nanoparticles, nanotoxicology, nanomedicine, (descriptive studies without biochemical mechanistic evidence and insights are discouraged)

**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

*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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Endoplasmic reticulum, Exosomes, Extracellular vesicles, Glucose metabolism, Glycosylation, Glycan metabolism

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

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mitochondrial biogenesis, protein targeting, redox biology, membrane biology, mitochondrial ribosomes, yeast genetics

Michelle Hill, QIMR Berghofer Medical Research Institute, Herston, Queensland, Australia
cell biology, organelle proteomics, systems biology, lipid raft, signal transduction, cancer

Michael Huang, The University of Sydney, Sydney, New South Wales, Australia
Friedreich’s ataxia, Mitochondria, Iron metabolism, Neurodegeneration, Oxidative stress

Hidenori Ichijo, The University of Tokyo, Tokyo, Japan
MAP Kinase, Stress Signaling, ER Stress, Apoptosis, Neurodegeneration, Cancer

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, Rigshospitalet, København, Denmark
Neuropeptides, Post-Translational Protein Processing, Molecular Sequence Data, High Pressure Liquid Chromatography, Mass Spectrometry, Radioimmunoassay, protein chemistry

Danuta Kalinowski, The University of Sydney, Sydney, New South Wales, Australia
Drug design, medicinal chemistry, cancer, Alzheimer’s disease, metallotherapeutics

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

Antonis E. Koromilas, McGill University, Montreal, Quebec, Canada
mRNA translation, translation initiation factor eIF2, environmental stress, mTOR, protein phosphorylation, STATs, oncogenes, tumor suppressors, transgenic mice, lung cancer, breast cancer

Zaklina Kovacevic, The University of Sydney, Sydney, New South Wales, Australia
Metastasis, Epithelial to mesenchymal transition, NDRG1, EGFR signaling, Breast Cancer, Pancreatic Cancer

Sharon La Fontaine, Deakin University, Burwood, Victoria, Australia
copper, copper transport, copper P-type ATPase, copper chaperone, metal transport, metal homeostasis, iron, glutaredoxin, redox biology, Menkes disease, Wilson disease, neurodegenerative disease, distal hereditary motor neuropathy

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

Gordan Lauc, Sveučilišta u Zagrebu, Zagreb, Croatia
Glycobiology; Glycomics; Protein glycosylation; High-throughput research; Complex genetics of glycosylation; Glycosylation and disease.

Christopher Horst Lillig, Universität Greifswald, Greifswald, Germany
Glutaredoxins, Oxidation-Reduction, Molecular Sequence Data, Mitochondria, Oxidative Stress, Thioredoxins

Mary Lipton, Pacific Northwest National Laboratory, Richland, Washington, USA
Proteomics, metabolomics, microbial communities, stable isotope probing, microbial ecology

Laurence Motte, Université Paris-Nord (Paris XIII), Paris, France
Inorganic nanoparticles, synthesis, surface functionalisation, nanomedicine, imaging contrast agents

Oliver Rackham, University of Western Australia, Nedlands, Western Australia, Australia
synthetic biology, RNA-binding proteins, ribosomes, protein engineering, directed evolution

Sumit Sahni, The University of Sydney, Sydney, New South Wales, Australia
Hypoxia in Cancer Progression; iron metabolism; Macrophage Biology; metal ions; Nitric Oxide Storage; Nitric Oxide transport

Tomáš Šimůnek, Charles University, Hradec Králové, Czech Republic
mitochondria, oxidative stress, topoisomerase II, anthracycline cardiotoxicity, ton metabolism

Renata Veselska, Masaryk University, Brno, Czech Republic
tumor biology, tumor markers, cancer stem cells, cytoskeleton, pediatric solid tumors

Rebecca Wade, Heidelberg Institute for Theoretical Studies (HITS), Heidelberg, Germany
Molecular modelling and simulation, structure-based drug design, bioinformatics, molecular systems biology, biomolecular recognition, protein-ligand interactions.

Yau-Huei Wei, Changhua Christian Hospital, Changhua City, Taiwan
Mitochondria, mitochondrial disorders, bioenergetics, oxidative stress, metabolic regulation, stem cell research

Christopher West, University of Georgia, Athens, Georgia, USA
Glycobiology, Ubiquitin Ligase, Cell Wall, Hypoxia, O2-Sensing, Prolyl Hydroxylation.
Hans Westerhoff, University of Amsterdam, Amsterdam, Netherlands
Biological Models, Kinetics, Systems Biology, Thermodynamics, Computer Simulation

Yoshiki Yamaguchi, RIKEN, Wako-shi, Saitama, Japan
Structural Glycobiology, NMR, Glycan Recognition, Lectin Receptors, Glycoconjugates

Yu Yu, Curtin University, Perth, Western Australia, Australia
Cancer recurrence and relapse, Anti-cancer therapeutics, Chemotherapy sensitivity/resistance, Gynaecologic oncology, Pre-clinical mouse cancer model, Predictive/treatment bio-markers

Wei Yue, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma, USA
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

Hong Zhu, Zhejiang University, Hangzhou, Zhejiang, China
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Results should be clear and concise.

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The main conclusions of the study may be presented in a short Conclusions section, which may stand alone or form a subsection of a Discussion or Results and Discussion section.

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