BBA GENERAL SUBJECTS
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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 are considered to have general interest for a wide audience. Manuscripts with interdisciplinary approaches are especially encouraged.

Preferred topics include medically important biochemistry/biophysics research and emerging areas such as nanobiology (nanoparticles, nanotoxicology, nanomedicine), systems biology (genomics, proteomics, lipidomics, glycomics, bioinformatics based on experimental approaches), chemical biology (chemical compounds, drug mechanisms, synthesis of novel compounds, click chemistry), structural biology (crystallography, NMR, multimeric proteins, protein dynamics), novel complexes (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 and mechanistic characterization of compounds having biochemical importance and general interest (drug leads, toxicants, nutrients, metabolites).

Authors must provide a sentence at submission stating the reason that the work described in the manuscript has general significance and interest to a wide audience. Claims of novelty do not suffice. The author statement will be used as an aid in the reviewing process and will be included in the final version of the accepted paper to orient readers of *BBA General Subjects*.

AUDIENCE

Biochemists, molecular biologists, glycobiologists, developmental biologists

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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

Stefan Hofmann, Chalmers University of Technology, Göteborg, Sweden
Sacccharomyces cerevisiae, Proteins, Gene Expression Regulation, Osmotic Pressure, Molecular Sequence Data

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Anders H. Johnsen, Rigshospitalet, København, Denmark
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Yasuhiko Kizuka, Gifu University, Gifu, Japan
Glycosylation, Glycobiology, Epigenetics, Alzheimer’s disease, Sugar analog, Chemical biology

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, The University of Sydney, Sydney, New South Wales, Australia

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

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

Mary Lipton, Pacific Northwest National Laboratory, Richland, Washington, USA
Proteomics, Bacterial Proteins, Biophysical Methods for Peptide Mapping, Molecular Sequence Data

Bengt Mannervik, Uppsala Universitet, Uppsala, Sweden
Glutathione S-Transferases, Kinetics and Catalysis, Isoenzymes, Site-Directed Mutagenesis

Henry Miziorko, University of Missouri at Kansas City, Kansas City, , Missouri, USA
Structure/function correlations accounting for enzyme catalysis and regulation, Isoprenoid/sterol biosynthesis, Ketogenesis, Photosynthetic CO2 assimilation, Molecular basis of inherited disease

Denis Pompon, Centre National de la Recherche Scientifique (CNRS), Gif sur Yvette, France
Cytochrome P450 Enzyme Systems, Molecular Cloning, Genetic Engineering, Oxidation-Reduction, Kinetics, Synthetic Biology, Bio-inspired Nanosystems, Directed Evolution of proteins

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

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

Masashi Tanaka, Tokyo Metropolitan Institute of Gerontology, Tokyo, Japan

Jerry Turnbull, University of Liverpool, Liverpool, UK
Heparan Sulfate and Heparin, Signal Transduction, Carbohydrate Sequence, Structure-Activity Relationships

**Mathias Uhlen**, KTH Royal Institute of Technology, Stockholm, Sweden
Proteomics, Antibodies, Immunohistochemistry, Molecular Sequence Data, Gene Expression Profiling, Protein Array Analysis

**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 modeling and simulation, structure-based drug design, bioinformatics, molecular systems biology, biomolecular recognition, protein-ligand interactions.

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Glycobiology, Ubiquitin Ligase, Cell Wall, Hypoxia, O2-Sensing, Prolyl Hydroxylation.

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**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
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