# BBA GENERAL SUBJECTS
One of the nine topical journals of BBA

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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), glycomics (sugar metabolites and metabolism, glycosylated proteins, membrane protein, glycosenylation, 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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Sara Goldstein, Hebrew University of Jerusalem, Jerusalem, Israel
Pulse radiolysis, kinetics, nitroxides, peroxyxinitrite, NO-donors
Mark Hamann, Medical University of South Carolina, Charleston, South Carolina, USA
Natural Products, NMR Structure, Cancer and Infectious Diseases, Synthesis, Biosynthesis
Yoichiro Harada, Kagoshima University, Kagoshima, Japan
Endoplasmic reticulum, Exosomes, Extracellular vesicles, Glucose metabolism, Glycosylation, Glycan metabolism

Dorothy Hausman, University of Georgia, Athens, GA, Georgia, USA
Biochemical Assessment of Nutritional status, Older Adults, Vitamin D, Obesity, Adipose Tissue Development

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

Johannes Herrmann, Technische Universität Kaiserslautern, Kaiserslautern, Germany
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 Hohmann, Chalmers University of Technology, Göteborg, Sweden
Saccharomyces cerevisiae, Proteins, Gene Expression Regulation, Osmotic Pressure, Molecular Sequence Data

Elaine Holmes, Imperial College London, Kensington, London, UK
Magnetic Resonance Spectroscopy, Metabolism, Principal Component Analysis, Biological Markers, Toxicology, Automated Pattern Recognition

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

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

Patrick Janssens, 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

Yasuhiko 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.

Hong Kyu Lee, Daejeon, South Korea
Mitochondrial DNA, Mitochondrial Dysfunction, Environmental Toxins, Metabolic Syndrome, Metabolic Scaling.

Christopher Horst Lillig, Universitätsmedizin Greifswald, Greifswald, Germany
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, USA
Structure/function correlations accounting for enzyme catalysis and regulation, Isoprenoid/sterol biosynthesis, Ketogenesis, Photosynthetic CO2 assimilation, Molecular basis of inherited disease

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

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

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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

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

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tumor biology, tumor markers, cancer stem cells, cytoskeleton, pediatric solid tumors

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

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Mitoc1. Mitochondrial disorders, Bioenergetics, Oxidative stress, Metabolic regulation, Degenerative diseases

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

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Biological Models, Kinetics, Systems Biology, Thermodynamics, Computer Simulation

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Structural Glycobiology, NMR, Glycan Recognition, Lectin Receptors, Glycoconjugates

Yoshihiro Yoneda, Osaka University, Osaka, Japan
Nuclear Transport, Nucleus, Nuclear Pore Complex, Cell Differentiation, Intracellular Molecular Traffic.

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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State the objectives of the work and provide an adequate background, avoiding a detailed literature survey or a summary of the results.

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