**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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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

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

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, Melbourne, Victoria, 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, University of Zagreb Faculty of Pharmacy and Biochemistry, Zagreb, Croatia
Protein glycosylation, High-throughput glycomics, Genetic regulation of protein glycosylation, Glycosylation in disease

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

Mary Lipton, Pacific Northwest National Laboratory, Richland, Washington, United States of America
Proteomics, Multi-omics, Functional Analyses, Microbial Communities, Stable Isotope Labeling

Laurence Motte, Sorbonne North Paris University, Villetaneuse, France
Inorganic nanoparticles, synthesis, surface functionalisation, nanomedicine, imaging contrast agents

Jose Renato Pinto, Florida State University College of Medicine, Tallahassee, Florida, United States of America
Striped muscle regulation, Troponin, Muscle biophysics, Cross-bridge kinetics, Cardiomyopathies

Oliver Rackham, Harry Perkins Institute of Medical Research, Perth, 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 Faculty of Pharmacy in Hradec Králové, Hradec Králové, Czechia
mitochondria, oxidative stress, topoisomerase II, anthracycline cardiotoxicity, ton metabolism

Suzy Torti, University of Connecticut Department of Molecular Biology and Biophysics, Farmington, Connecticut, United States of America
Renata Veselska, Masaryk University, Brno, Czechia
tumor biology, tumor markers, cancer stem cells, cytoskeleton, pediatric solid tumors

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

**Zefeng Wang**, Partner Institute for Computational Biology Chinese Academy of Sciences and Max Planck Society, Shanghai, China
Gene regulation, RNA binding protein, RNA turnover, protein motif, RNA-protein interaction, computation, protein engineering, RNA splicing, translation control, translation initiation factor, RNA metabolism, biophysics, translation initiation, RNA processing, ribozyme (catalytic RNA) (RNA enzyme), bioinformatics

**Yau-Huei Wei**, Changhua Christian Hospital, Center for Mitochondrial Research and Medicine, Changhua, Taiwan
Mitochondria, mitochondrial disorders, bioenergetics, oxidative stress, metabolic regulation, stem cell research

**Christopher West**, University of Georgia, Athens, Georgia, United States of America
Glycobiology, Ubiquitin Ligase, Cell Wall, Hypoxia, O2-Sensing, Prolyl Hydroxylation.

**Hans Westerhoff**, University of Amsterdam, Amsterdam, Netherlands
Systems biology

**Weidong Wu**, Xinxiang Medical University, Xinxiang, China
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Structural Glycobiology, NMR, Glycan Recognition, Lectin Receptors, Glycoconjugates

**Aixin Yan**, The University of Hong Kong, Pok Fu Lam, Hong Kong
Microbiology, Antibiotic Resistance, Microbial Stress Response, CRISPR-Cas, Antimicrobial Development, Biometals

**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**, The University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma, United States of America
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/nanotechnology: nanoparticles, nanotoxicology, nanomedicine
- genomics, proteomics, lipidomics, glycomics, bioinformatics addressing experimentally 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, 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, glycosylation, glycomics
- redox biology: redox switches, glutathione and thioredoxin systems, oxygen and nitrogen radical species, superoxide, hydrogen peroxide, hydroxyl radical, nitric oxide, oxides, hypoxia, redox regulation of transcription factors
- 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
- 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

Structural data
For papers describing structures of biological macromolecules, the atomic coordinates and the related experimental data (structure factor amplitudes/intensities and/or NMR restraints) must be deposited at a member site of the Worldwide Protein Data Bank (http://www.wwpdb.org): RCSB PDB (http://www.pdb.org), MSD-EBI (http://www.ebi.ac.uk/pdbe/), PDBj (http://www.pdbj.org), or BMRB (http://www.bmrbr.wisc.edu). Manuscripts must carry a statement that coordinates and structure factors (or NMR restraints) have been deposited in the Protein Data Bank. The accession number(s) must be cited in the manuscript at the end of the Materials and Methods section. Authors must agree to release the atomic coordinates and experimental data immediately upon publication.

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Full-length research articles (Regular paper), Review articles and Mini-reviews, brief reports (BBA Research Letters)

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Reviews and mini-reviews are typically commissioned by the Editors. All Review Articles should be authoritative, state-of-the-art accounts of the selected research field, be of high interest, balanced and accurate. Beyond summaries of important scientific developments and ideas, authors are encouraged to identify and discuss how the field may be impacted or develop in the future, including insights that may be of significance to the scientific community. All BBA Review Articles
undergo rigorous and full peer review, in the same way as regular research papers, and publication cannot be guaranteed. The number of co-authors of review articles is limited to five and each author is expected to make a substantial contribution to the writing of the manuscript.

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All authors should have made substantial contributions to all of the following: (1) the conception and design of the study, or acquisition of data, or analysis and interpretation of data, (2) drafting the article or revising it critically for important intellectual content, (3) final approval of the version to be submitted.

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Divide your article into clearly defined and numbered sections. Subsections should be numbered 1.1 (then 1.1.1, 1.1.2, ...), 1.2, etc. (the abstract is not included in section numbering). Use this numbering also for internal cross-referencing: do not just refer to 'the text'. Any subsection may be given a brief heading. Each heading should appear on its own separate line.

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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.

**Material and methods**
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This should explore the significance of the results of the work, not repeat them. A combined Results and Discussion section is often appropriate. Avoid extensive citations and discussion of published literature.

**Conclusions**
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