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
- **Omnics:** 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:** having biochemical importance and general interest
- **Mechanistic Characterization of Compounds:** 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.

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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

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

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cell biology, organelle proteomics, systems biology, lipid raft, signal transduction, cancer

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Friedreich’s ataxia, Mitochondria, Iron metabolism, Neurodegeneration, Oxidative stress

**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

**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

**Dariusz 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, Villette, France
Inorganic nanoparticles, synthesis, surface functionalisation, nanomedecine, imaging contrast agents

**Jose Renato Pinto**, Florida State University College of Medicine, Tallahassee, Florida, United States of America
Striated 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 Kralove, Hradec Králové, Czechia  
mitochondria, oxidative stress, topoisomerase II, anthracycline cardiotoxicity, ton metabolism

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, Changhua, Taiwan  
Mitochondria, mitochondrial disorders, bioenergetics, oxidative stress, metabolic regulation, stem cell research

Christopher West, The 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  
Health effect and molecular mechanisms of air pollution, epidemiology, oxidative stress, inflammatory cell signaling, protein phosphorylation, regulation of inflammatory gene expression, antioxidant intervention, airway or gut microbiome and health.

Yoshiki Yamaguchi, Institute of Physical and Chemical Research, Wako, Japan  
Structural Glycobiology, NMR, Glycan Recognition, Lectin Receptors, Glycoconjugates

Aixin Yan, University of Hong Kong, Hong Kong, China  
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

Hong Zhu, Zhejiang University, Hangzhou, China
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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
- genomics, proteomics, lipidomics, glycomics, bioinformatics
- chemical biology: chemical compounds, drug mechanisms, synthesis of novel compounds
- structural biology: crystallography, NMR, multimeric proteins, protein dynamics
- nucleic acids: 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
- 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, 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

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.bmrb.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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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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Results should be clear and concise.

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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.

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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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If there is more than one appendix, they should be identified as A, B, etc. Formulae and equations in appendices should be given separate numbering: Eq. (A.1), Eq. (A.2), etc.; in a subsequent appendix, Eq. (B.1) and so on. Similarly for tables and figures: Table A.1; Fig. A.1, etc.

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