BIOCHIMICA ET BIOPHYSICA ACTA - BIOENERGETICS

AUTHOR INFORMATION PACK

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.4

DESCRIPTION

*BBA Bioenergetics* covers the area of *biological membranes* involved in energy transfer and conversion. In particular, it focuses on the structures obtained by X-ray crystallography and other approaches, and molecular mechanisms of the components of *photosynthesis*, mitochondrial and bacterial *respiration*, oxidative phosphorylation, motility and transport. It spans applications of *structural biology*, molecular modeling, spectroscopy and biophysics in these systems, through bioenergetic aspects of mitochondrial biology including biomedicine aspects of *energy metabolism* in *mitochondrial disorders*, neurodegenerative diseases like Parkinson's and Alzheimer's, *aging*, diabetes and even *cancer*.

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AUDIENCE

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Bioenergetics; photosynthesis; computational biophysics

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EPR spectroscopy, Photosynthesis, Reaction Centers, Respiratory complexes, Protein cofactor interactions.

Jonathan Hosler, University of Mississippi, Jackson, Mississippi, USA
Complex IV function and assembly, CcO suicide inactivation; mitochondrial physiology

Carola Hunte, Albert-Ludwigs-Universität Freiburg, Freiburg, Germany
Respiratory complexes, ion transport, structural biology, membrane proteins, X-ray crystallography.

Nils-Göran Larsson, Max Planck Institute (MPI) for the Biology of Aging, Köln, Germany
Mitochondria, mitochondrial disease, mtDNA, mitochondrial transcription, mitochondrial translation

Bernard Lemire, University of Alberta, Edmonton, Alberta, Canada
C. elegans, mitochondria, aging, bioenergetics

Christopher Moser, University of Pennsylvania, Philadelphia, Pennsylvania, USA
Electron transfer; electron tunneling; energy transfer; protein design

Light-harvesting, Electron transport, Membrane dynamics, Cyanobacteria, Fluorescence imaging, bacterial cell biology

Richard Porter, Trinity College, Dublin 2, Ireland
Uncoupling proteins; Mitochondria; Proton leak; Transporters; oxygen

Toshiharu Shikanai, Kyoto University, Sakyoku, Kyoto, Japan
Andrei Vinogradov, M.V. Lomonosov Moscow State University, Moscow, Russian Federation
Chloroplast biogenesis; chloroplast gene expression; photosynthetic protein complex assembly; protein degradation; retrograde signalling

Lixin Zhang, Chinese Academy of Sciences (CAS), Beijing, China
Chloroplast biogenesis; chloroplast gene expression; photosynthetic protein complex assembly; protein degradation; retrograde signalling

Volker Zickermann, Goethe-Universität Frankfurt, Frankfurt am Main, Germany
respiratory complex I, structural biology, redox-linked proton translocation, assembly, mitochondrial diseases
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BBA Bioenergetics covers the area of biological membranes involved in energy transfer and conversion. In particular, it focuses on the structures obtained by X-ray crystallography and other approaches, and molecular mechanisms of the components of photosynthesis, mitochondrial and bacterial respiration, oxidative phosphorylation, motility and transport. It spans applications of structural biology, molecular modeling, spectroscopy and biophysics in these systems, through bioenergetic aspects of mitochondrial biology including biomedicine aspects of energy metabolism in mitochondrial disorders, neurodegenerative diseases like Parkinson's and Alzheimer's, aging, diabetes and even cancer.

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