JOURNAL OF STRUCTURAL BIOLOGY

AUTHOR INFORMATION PACK

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DESCRIPTION

The *Journal of Structural Biology* has an open access mirror journal, the *Journal of Structural Biology: X*, sharing the same aims and scope, editorial team, submission system and rigorous peer review.

The *Journal of Structural Biology* publishes papers dealing with the structural analysis of living material at every level of organization by all methods that lead to an understanding of biological function in terms of molecular and supermolecular structure.

Techniques covered include:

- Light microscopy including confocal microscopy
- All types of electron microscopy
- X-ray diffraction
- Nuclear magnetic resonance
- Scanning force microscopy, scanning probe microscopy, and tunneling microscopy
- Digital image processing
- Computational insights into structure

The field covered by the journal extends from the structural organization of cells and tissues, their membranes, compartments, organelles and supramolecular assemblies, to the structure and conformation of proteins and nucleic acids from the molecular to the atomic level. !!! Important information for NIH authors !!!

AUDIENCE

Biochemists, crystallographers, cell biologists, structural biologists

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Sarah Butcher, University of Helsinki, Helsinki, Finland

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José María Carazo, Spanish National Center for Biotechnology, Madrid, Spain

Spain

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José Carrascosa, Spanish National Center for Biotechnology (CNB), Madrid, Spain

Henry Chanzy, National Center for Scientific Research (CNRS), Grenoble, France

Yifan Cheng, University of California at San Francisco (UCSF), San Francisco, California, USA

Cryo-electron microscopy, proteasome

James Conway, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania, USA

Cryo-electron microscopy, structure and function of macromolecular complexes, virus capsids

Sarel Fleishman, Weizmann Institute of Science, Rehovot, Israel

Rosetta design; antibodies; enzymes; membrane proteins; high-throughput screening

Robert M. Glaeser, University of California at Berkeley, Berkeley, California, USA

High-resolution electron microscopy, single-molecule, development of electron microscopy methodology

Nick Grishin, University of Texas Southwestern Medical Center, Dallas, Texas, USA

Computational biology

Dorit Hanein, Burnham Institute for Medical Research, La Jolla, California, USA

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Masahide Kikkawa, The University of Tokyo, Tokyo, Japan

Microtubule-based motors, kinesin and dynein, cryo-electron microscopy and image analysis

Abraham Koster, Leids Universitair Medisch Centrum (LUMC), Leiden, Netherlands

Electron microscopy

Carolyn Larabell, University of California at San Francisco (UCSF), San Francisco, California, USA

Development, microscopy, imaging, x-ray tomography

Steven Ludtke, Baylor College of Medicine, Houston, Texas, USA

Cryo-electron microscopy and tomography, quantitative Image Processing Algorithm Development, macromolecular assemblies, membranes and membrane proteins, protein structure-function and folding, antibiotic resistance

François Major, University of Montréal, Montréal, Québec, Canada

Tom Misteli, National Cancer Institute (NCI), Bethesda, Maryland, USA

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Andrea Musacchio, Max Planck Institute of Molecular Physiology, Dortmund, Germany

Cell division, mitosis, X-ray crystallography, biochemistry, biophysics, electron microscopy

Raúl Padrón, Venezuelan Institute for Scientific Research (IVIC), Caracas, Venezuela

muscle thick filaments, myosin interacting-heads motif (IHM)

David A.D. Parry, Massey University, Palmerston North, New Zealand

Fibrous Proteins; muscle: collagen; intermediate filaments; structure; sequence analyses.

Anastassis Perrakis, Netherlands Cancer Institute (NKI), Amsterdam, Netherlands

Jürgen M. Plitzko, Max Planck Institute of Biochemistry, Martinsried, Germany

Tatyana Polenova, University of Delaware, Newark, Delaware, USA

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Michael Radermacher, University of Vermont, Burlington, Vermont, USA

3D electron microscopy

Zihe Rao, Tsinghua University, Beijing, China

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Electron microscopy, biomineralization
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Murray Stewart, Medical Research Council (MRC), Cambridge, UK
Nuclear trafficking, nuclear export of mRNA
Phoebe L. Stewart, Case Western Reserve University, Cleveland, Ohio, USA
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Leann Tilley, University of Melbourne, Melbourne, Victoria, Australia
Super-resolution optical microscopy, electron microscopy, membrane structure, protein trafficking
Paul Wingfield, National Institute of Arthritis and Musculoskeletal & Skin Diseases (NIAMS), Bethesda, Maryland, USA
Sharon Grayer Wolf, Weizmann Institute of Science, Rehovot, Israel
Cryo-EM, cellular ultrastructure, structural biology, electron tomography, 3DEM
Nieng Yan, Princeton University, Princeton, New Jersey, USA
Membrane transporters, mechanisms of substrate recognition and transport
Ulrich Zachariae, University of Dundee, Dundee, Scotland, UK
Computational biology
Yang Zhang, University of Michigan, Ann Arbor, Michigan, USA
GUIDE FOR AUTHORS

INTRODUCTION

Journal of Structural Biology has an open access mirror journal, Journal of Structural Biology: X. The Journal of Structural Biology (J. Struct. Biol., JSB) publishes papers dealing with the structural analysis of biological matter at all levels of organization and the functional connotations of such observations. The field covered by the journal extends from individual macromolecules to cells and tissues with emphasis on the supramolecular (e.g. complexes and machines) and subcellular (e.g., membranes, compartments, cytoskeleton) levels of the structural hierarchy.

Novel applications of and methodological innovations in electron microscopy, X-ray diffraction, probe microscopy, and light microscopy, as well as aspects of computational biology, image processing, bioinformatics and structural prediction, and other biophysical techniques yielding structural information are of interest to the journal. In the context of structural cell biology, papers dealing with cellular architecture and dynamics are particularly welcomed. We see biomineralization as an important area of interest.

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