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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 **supramolecular 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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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.

Preference will be given to research that correlates structural results with functional, biochemical, biophysical, immunological, or genetic data on the system under study. Purely descriptive contributions should deal with the discovery of novel structural entities of biological significance or novel insights from innovative imaging modalities.

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In addition to regular full-length papers, the *Journal of Structural Biology* publishes Technical Notes and Structure Reports.

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Structure Reports concisely document macromolecular structures, including those emanating from structural genomics. Where no biological role is yet determined, these reports can be presented without such connections. In addition to appropriate quality of the reported structure, it is essential that the procedures used to prepare the protein and to determine the structure should be repeatable with the information provided.

A Technical Note or Structure Report should not exceed four printed pages including figures (1 page ~ 900 words/5000 characters).

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Strunk Jr., W., White, E.B., 2000. *The Elements of Style*, fourth ed. Longman, New York.

Reference to a chapter in an edited book:

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