

## Special Issue

# Cell Biology for Boron Neutron Capture Therapy (BNCT)

### Message from the Guest Editors

Dear colleagues, The emergence of epithermal neutron sources in hospitals has made boron neutron capture therapy (BNCT) a focus of innovative developments in radiation oncology. Given the rapid progress in clinical and preclinical research on BNCT, we invite contributions for this Special Issue of *Cells* in the form of original research articles and reviews on all cellular aspects related to BNCT. Relevant topics include, but are not limited to, the following:

- Radiation biology for BNCT;
- Cell-based studies;
- Drug development for BNCT;
- Impact of BNCT on the proteomic profile and omics approaches;
- Boron imaging;
- Mechanisms of action of BNCT;
- Immunological aspects, including abscopal effect of BNCT;
- Biomarkers for therapeutic optimization.

### Keywords

boron neutron capture therapy (BNCT)  
radiation biology  
radiation oncology  
drug development  
imaging  
targeted therapies  
boron chemistry

### Guest Editors

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Prof. Dr. Mitsuko Masutani  
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### Deadline for manuscript submissions

closed (31 December 2024)



## Cells

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Impact Factor 5.2  
CiteScore 10.5  
Indexed in PubMed



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## About the Journal

### Message from the Editorial Board

*Cells* has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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### Editors-in-Chief

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#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, CAPus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Cell Biology) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).