

Special Issue

Biology of Boron Neutron Capture Therapy (BNCT)

Message from the Guest Editors

The appearance of hospital-based epithermal neutron sources has made boron neutron capture therapy (BNCT) a dedicated focus of innovative developments in radiation oncology. All future clinical applications have to be based on carefully performed pre-clinical investigations. At this very moment, it seems appropriate and important to collect results of recent preclinical and early clinical research and publish them together with intelligible and clear reviews of the most challenging aspects of BNCT. In this Special Issue of *Cells*, we invite your contributions, in the form of original research articles, reviews, or shorter perspective articles, on all aspects related to the theme of BNCT. Relevant topics include, but are not limited to, the following:

- Radiation biology for BNCT;
- Cell-based studies;
- Preclinical animal studies;
- Drug development for BNCT;
- Impact of BNCT on the proteomic profile and omics approaches;
- Boron imaging;
- Mechanisms of action of BNCT;
- Abscopal effect of BNCT;
- Early clinical trials;
- Biomarkers for therapeutic optimization.

Guest Editors

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Deadline for manuscript submissions

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).