



## Boron Neutron Capture Therapy: From Nuclear Physics to Biomedicine

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### Message from the Guest Editors

We are facing a new era for Boron Neutron Capture Therapy (BNCT). Considering the very promising results obtained in clinical trials performed using research reactors to treat tumors of very bad prognosis and the current projects applying in-hospital accelerator-based neutron sources for tumor therapy, we expect that the number of BNCT clinical trials will expand worldwide. BNCT is a paradigm of interdisciplinary research, as it consists in the production of nuclear reactions selectively into tumor cells.

The aim of this Special Issue is to illustrate this interdisciplinary research, with a focus on the transition from nuclear physics to biomedicine. Topics of interest for this Special Issue include, but are not limited to, the production of neutron beams for BNCT, experimental dosimetry—including real-time dosimetry—computational dosimetry, radiobiological models and treatment planning, boron quantification and imaging, new BNCT applications, and radiation protection issues.

This Special Issue welcomes the submission of original research and review manuscripts focusing on any of these topics, including papers on methods that have made contributions to the development of this field. Both basic and clinical research papers are welcome and are expected to contribute to a global interdisciplinary vision of BNCT.





## Editor-in-Chief

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## Message from the Editor-in-Chief

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