

## Special Issue

# Microbeam Radiation Biology and Its State-of-the-Art Technology

### Message from the Guest Editors

Microbeam irradiation technology has great potential as a powerful tool for the analysis of cell- or tissue-specific radiation effects, as well as for radiotherapy. This Special Issue focuses mainly on microbeam irradiation studies using cultured cells and model animals to clarify the effects of radiation at the molecular (DNA), cell, tissue, or individual level. Specifically, we aim to compare and systematically discuss various radiation effects such as the bystander effect, abscopal effect, and individual-level effects of microbeam irradiation. We also welcome reports regarding the latest progress in the development of microbeam irradiation technology for various radiations, such as heavy ions, protons, and X-ray photons. It evaluates the potential value of microbeams for both biological research and radiation therapy, and contributes to facilitating discussions on radiobiology with microbeam state-of-the-art technology.

### Guest Editors

Dr. Michiyo Suzuki

Dr. Teruaki Konishi

Dr. Tomoo Funayama

### Deadline for manuscript submissions

closed (30 September 2023)



## Biology

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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### Editors-in-Chief

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