

# Special Issue

## Radiation Resistant Microorganisms

### Message from the Guest Editor

Ionizing radiation affects cellular biomolecules including nucleic acids, proteins, and lipids directly or indirectly, eventually leading to lesions that can express themselves in a variety of biologically significant changes. Since *Deinococcus radiodurans*, one of the most radiation-resistant bacteria, was first isolated in 1956, the radiation-resistant microorganisms have been discovered in the three domains of life (Bacteria, Archaea, and Eukarya). These organisms are not only extremely tolerant to ionizing radiation, but also other DNA damaging agents and oxidative stress-generating conditions. Therefore, characterization of the molecular mechanisms and key players underlying the multiple stress resistance helps us to understand their mysterious survival strategy and sheds lights on the biotechnological application of their useful molecules. This Special Issue of *Microorganisms* calls for reviews as well as original research articles concerning any aspect related to radiation-resistant microorganisms, from the physiology and molecular biology to the applied aspects of radiation-resistant microorganisms.

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### Deadline for manuscript submissions

closed (30 April 2021)



## Microorganisms

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## About the Journal

### Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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### Editor-in-Chief

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#### Journal Rank:

JCR - Q2 (Microbiology) / CiteScore - Q1 (Microbiology (medical))

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.2 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).