



*life*



an Open Access Journal by MDPI

## How Stress and Antibiotic Exposure Affect Bacterial Intra- and Inter-species Competition

Guest Editors:

**Dr. Volker Behrends**

Health Sciences Research Centre,  
University of Roehampton,  
London SW15 4JD, UK

**Dr. Michal Letek**

Department of Molecular Biology,  
Area of Microbiology, Universidad  
de León, 24071 Leon, Spain

Deadline for manuscript  
submissions:

**closed (30 April 2021)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue will focus on the impact of stress and sub-MIC antibiotic exposure on bacterial competition.

To survive, bacteria have to be able to withstand abiotic stresses, such as changes in osmotic pressure, pH, and temperature, and biotic stresses, such as predators. However, bacteria rarely live in isolation. They share and compete for nutrients with other bacteria and also eukaryotic organisms, such as fungi. Even within a single species, the emergence of social cheaters from within a population has been described.

We, therefore, invite you to submit an original research article or a review in the area of intra- and inter-species competition, with a particular focus on the influence of stress on these interactions. Topics of interest include, but are not limited to: gut microbial competition; the impact of exposure to sub-inhibitory levels of antibiotics on bacterial virulence; and the resistance to stress of environmental bacterial consortia.



[mdpi.com/si/54986](https://mdpi.com/si/54986)

**Special** Issue



*life*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Lluís Ribas de Pouplana**

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

## Message from the Editor-in-Chief

*Life* (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [CAPus / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)

## Contact Us

---

*Life* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/life](http://mdpi.com/journal/life)  
[life@mdpi.com](mailto:life@mdpi.com)  
[X@Life\\_MDPI](#)