

## Special Issue

# Mechanical Forces in the Cell

### Message from the Guest Editors

Immune cells perform a complex sequence of actions to defend an organism from external and internal threats. Evidence has recently emerged suggesting that physical factors play a dramatic role in immune cell functions. As experiments at the different scales of the immune system have become more quantitative, theoretical models are being developed to test biological hypotheses and predict the behavior of molecules and cells that participate to the immune response. These models rely on a wide array of theoretical tools, based on both mathematical and statistical frameworks. This Special Issue will focus on the combination of experimental and theoretical results concerning the action of mechanical forces, geometrical constraints and other physical aspects determining immune function.

### Guest Editors

Dr. Pietro Mascheroni

Department Systems Immunology (SIMM), Helmholtz Centre for Infection Research, 38124 Braunschweig, Germany

Dr. Haralampos Hatzikirou

1. Centre for Information Services and High Performance Computing, Technische Universität Dresden, Nöthnitzer Straße 46, 01062 Dresden, Germany

2. Mathematics Department, Khalifa University, Abu Dhabi P.O. Box 127788, United Arab Emirates

### Deadline for manuscript submissions

closed (22 April 2021)



## Life

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 4.3  
Indexed in PubMed



[mdpi.com/si/47268](https://mdpi.com/si/47268)

*Life*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[life@mdpi.com](mailto:life@mdpi.com)

[mdpi.com/journal/  
life](https://mdpi.com/journal/life)





# Life

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.2  
CiteScore 4.3  
Indexed in PubMed



[mdpi.com/journal/  
life](https://mdpi.com/journal/life)



## About the Journal

### 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.

---

### 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

---

### 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, CAPIus / SciFinder, AGRIS, and other databases.

#### Journal Rank:

JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)