

## Special Issue

# Molecular and Cellular Biology of Transplantation

### Message from the Guest Editors

Despite the progress being made in gene and cell therapies, organ transplantation will continue to be the primary treatment option for end-stage organ failure. However, patients still face significant challenges, including a shortage of donor organs and a high risk of acute and chronic graft failure. In this context, this Special Issue will explore recent advancements in the field, including ex vivo organ perfusion, xenotransplantation and the application of regulatory cells such as Tregs and CAR Tregs, with a focus on overcoming or mitigating these shortcomings.

---

### Guest Editors

Dr. Robert Ramm

Lower Saxony Centre for Biomedical Engineering, Implant Research and Development (NIFE), Hannover Medical School, 30625 Hanover, Germany

Prof. Dr. Sebastian G. Michel

1. Department of Cardiac Surgery, University Hospital, LMU Munich, 81377 Munich, Germany  
2. Munich Heart Alliance, German Center for Cardiovascular Research (DZHK), 81377 Munich, Germany

---

### Deadline for manuscript submissions

closed (31 March 2025)



## Life

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.4**  
**CiteScore 6.0**  
**Indexed in PubMed**



[mdpi.com/si/212912](https://mdpi.com/si/212912)

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

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

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





# Life

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.0  
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, and other databases.

#### Journal Rank:

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