Special Issue

Humanised Mouse Models: Recent Advances in Human Infectious Diseases

Message from the Guest Editors

Since the generation of the first immunodeficient mice, humanised mouse models have considerably evolved and improved. Humanisation of immunodeficient mice can be achieved by engrafting different human cells, such as haematopoietic stem cells, PBMCs, erythrocytes, or hepatocytes. The use of these models enables in vivo investigations of human-restricted pathogens and human immune responses to these pathogens. Humanised mouse models have been developed for many infectious diseases such as malaria, COVID-19, tuberculosis, and schistosomiasis. While imperfect, these models can offer important insights into host–pathogen interactions, therapeutics, and vaccine efficacy. In this Special Issue, recent advances in our understanding of pathogens will be explored, along with the remaining challenges and opportunities in the field.

Guest Editors

Dr. Adéla Nacer
National Institute for Biological Standards and Control, Hertfordshire, UK

Dr. Ivan E. Gladwyn-Ng
Taconic Biosciences GmbH, Leverkusen, Germany

Deadline for manuscript submissions

closed (30 October 2023)

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/si/154596

Microorganisms
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
microorganisms@mdpi.com

mdpi.com/journal/microorganisms

Microorganisms

an Open Access Journal by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed

mdpi.com/journal/microorganisms

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.

Editor-in-Chief

Dr. Nico Jehmlich
Department of Molecular Toxicology, UFZ-Helmholtz Centre for Environmental Research, 04318 Leipzig, Germany

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, AGRIS, and other databases.

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).

MDPI