

Special Issue

Animal Models for Immune and Infectious Diseases

Message from the Guest Editor

Animal models are indispensable tools for studying human immune responses, autoimmunity and infectious diseases. To elucidate the mechanisms of autoimmunity and host–pathogen interaction, as well as immunomodulatory therapies, animal models are generally employed before in vivo testing in humans. This Special Issue focuses on the development, validation, and application of diverse animal models that enhance our understanding of immune-mediated diseases and infectious processes. We welcome original research and reviews exploring the following:

- Animal models for acute and chronic infections;
- Animal models for autoimmune inflammations;
- Immune cell dynamics in systemic or organ-specific disease models;
- Humanized and genetically modified models for translational immunology;
- Applications in vaccine development, antiviral testing, and immunotherapies;
- Ethical perspectives and refinement of experimental animal models.

We look forward to receiving your contributions.

Guest Editor

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Deadline for manuscript submissions

31 May 2026



Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



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Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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