

## Special Issue

# Molecular and Cellular Mechanisms of Parasitic Biology

### Message from the Guest Editor

We are thrilled to announce the launch of a Special Issue dedicated to groundbreaking molecular and cellular mechanisms of parasite biology. Our aim is to illuminate how these once overlooked “ugly ducklings” of microbiology have transformed into “beautiful swans”, becoming cornerstones of a new paradigm in fundamental biological understanding. This special collection will showcase the latest research that reveals the complexity and ingenuity of parasitic life forms, highlighting their role in advancing our understanding of biology’s most intricate processes. Historical breakthroughs such as antigenic variation, regulated virulence, immune response modulations, novel secretion mechanisms, surprising enzymatic potentials, extended phenotypes, novel drugs, and biotechnology tools are not old discoveries. More are continuously coming to the stage: PUCH, PExEI, digital droplet PCR, parasitic protozoan viruses, new RNA-specific styryl dyes, mechanisms of dormancy, survival and resistance; almost alien-like DNA regulations; atypical endomitosis and kinetochores.

### Guest Editor

Dr. Ilaria Russo

School of Medicine, Keele University, Keele ST5 5BG, UK

### Deadline for manuscript submissions

closed (30 April 2025)



## International Journal of Molecular Sciences

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## About the Journal

### Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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### Editor-in-Chief

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