

IMPACT FACTOR 3.2





an Open Access Journal by MDPI

Intracellular Trafficking and Organelle Biogenesis in Apicomplexan Parasites

Guest Editor:

Dr. Stanislas Tomavo

Institute for Integrative Biology of the Cell (I2BC), CNRS-CEA, Université Paris-Saclay, 91190 Paris, France

Deadline for manuscript submissions:

closed (23 June 2021)

Message from the Guest Editor

The phylum Apicomplexa comprises more than 5000 single-celled parasites of clinical and economic importance, including *Plasmodium falciparum*, the agents and Toxoplasma gondii, the cause of of malaria. toxoplasmosis. These obligate intracellular parasites possess a highly complex endomembrane system to build morphologically distinct organelles that are essential for invasion and hijacking multiple biological functions of the hosts. The accurate targeting of proteins and lipids to their final destination is a crucial process in all living cells and apicomplexan parasites as well. Due to the complexity of the internal organization of these parasites, a wide panoply of trafficking factors are required for the correct sorting of proteins and lipids towards their various organelles. However, these parasites contain only a core set of these trafficking factors. In addition, recent insight suggests trafficking of proteins and other materials into T. gondii and *P. falciparum* via unusual and novel pathways. In this Special Issue, reviews will report on different trafficking machineries and mechanisms which are involved in the biogenesis of parasite-specific organelles.













an Open Access Journal by MDPI

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

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.

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, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank: JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)

Contact Us