

Special Issue

Cytomegalovirus, Inflammation and Oncomodulation

Message from the Guest Editor

Human cytomegalovirus (HCMV) is an immune and onco-modulatory virus that belongs to the herpes virus family with unique capacity to maintain latency after primary infection. The sero-prevalence for HCMV is 50–100% worldwide. Inflammation is the key element for HCMV reactivation in blood monocytes that result in differentiation of monocytes into macrophages or dendritic cells, which can transmit the virus to other cell types and can cause serious disease in immunocompromised individuals and cancer patients. During the past years a link between HCMV and certain types of cancer such as Glioblastoma, breast cancer, ovarian cancer and colon cancer has been shown. In these studies high prevalence of viral proteins and nucleic acids was detected in tumor tissue specimens with evidence of onco-modulatory abilities conferred by this virus. Frequent reactivation of latent HCMV in tumor tissues by inflammation would exacerbate inflammation by increasing production of inflammatory factors that may contribute to tumor progression.

Guest Editor

Dr. Afzar Rahbar

Department of Medicine, Karolinska Institutet, BioClinicum:J5:30,
Akademiska Stråket 1, Karolinska Institutet, 17164 Solna, Sweden

Deadline for manuscript submissions

closed (31 May 2021)



Microorganisms

an Open Access Journal
by MDPI

Impact Factor 4.2
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/45076

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

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