

Special Issue

Viruses and Cancer: From Cellular Mechanism to Therapeutic Aspects

Message from the Guest Editors

Viruses cause a wide spectrum of clinical diseases; several have even been shown to be capable of causing cancers in humans. Additional events and host factors, such as an immunosuppressive tumor microenvironment, oncogenic mutations accumulated with age, and host genetic predisposition, are also predicted to play a role in viral diseases. A comprehensive understanding of viral oncogenesis and the molecular mechanisms of host responses may enable the identification of unknown infectious cancer etiologies; thus, enhancing our knowledge of this area holds much promise for the development of more effective and tolerable strategies for virus-associated cancers. This Special Issue aims to bring together the latest key findings on host responses during virus infection leading to viral oncogenesis and discuss new diagnostic and therapeutic ideas and applications. Research areas of interest include (but are not limited to) the following topics:

- Host cell responses: cellular and molecular mechanisms;
- Virus–host interaction;
- Host immunity and viral evasion mechanisms;
- Viral oncogenesis;
- Metabolic reprogramming;
- Therapeutic approaches.

Guest Editors

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About the Journal

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.5 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).