

Special Issue

Oncolytic Viruses for Cancer Immunotherapy

Message from the Guest Editor

Oncolytic viruses are considered powerful additions to the arsenal of anticancer agents. They are unique in their combined activities of inducing selective cancer cell killing, propagating and self-amplifying in solid tumors and promoting anti-tumor immune responses. In recent years, several important improvements in oncolytic virus design and delivery methods were made to enhance their safety and efficacy for cancer treatment. Furthermore, mechanistic studies deepened our understanding of how oncolytic viruses work within the tumor microenvironment. Promising results from clinical trials and the first granted market approvals for oncolytic-virus-based cancer therapies underscore the growing recognition of oncolytic immunotherapy as a viable option for treating cancer. This Special Issue of *IJMS* intends to provide an overview of the latest advances in the field and to present innovations driving the field forward, as well as studies addressing challenges encountered in applying oncolytic viruses in cancer treatment.

Guest Editor

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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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