

Special Issue

Molecular Insights into HIV-1 Infection

Message from the Guest Editor

The FDA's approval of Lenacapavir, a long-acting HIV-1 prevention drug has marked the year 2025 as a significant milestone in anti-retroviral therapy. Recent advancements and breakthroughs in HIV-1 molecular biology have intensified the race to achieve the development of a complete cure for AIDS. A better understanding of the complex interplay between virus and host cell factors at the molecular level will contribute to developing more effective therapeutic strategies. This Special Issue, "Molecular Insights into HIV-1 Infection", seeks manuscripts that investigate the crucial steps of the HIV-1 lifecycle; virus entry into host cell, nuclear trafficking, integration, latency, assembly, egress, and maturation. We additionally encourage the submission of papers that explore the latest technology in this field used to develop novel drug molecules or anti-HIV-1 strategies. Review articles on recent developments in our understanding of HIV-1 biology are also welcome. We look forward to receiving your submissions, hoping to contribute to the development of innovative strategies against HIV-1.

Guest Editor

Dr. Satya Prakash Singh

Department of Biological Science, Florida State University, Tallahassee, FL 32306, USA

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Message from the Editor-in-Chief

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Editor-in-Chief

Dr. Eric O. Freed

HIV Dynamics and Replication Program, Center for Cancer Research,
National Cancer Institute, Frederick, MD 21702-1201, USA

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