

Special Issue

Pathogenesis and Treatment of HIV-1 Infection

Message from the Guest Editor

Over the years, numerous analyses have been carried out with the aim of strengthening the immune response and finding a therapeutic solution to protect against HIV; however, there is still no definitive cure. HIV-1 enters the central nervous system (CNS), where perivascular macrophages and microglia are infected. This situation is aggravated by the complex nature of HIV, which is characterized by genetic diversity, high mutation rates, and issues of antiretroviral drug toxicity and viral resistance. Many molecular studies have demonstrated the importance of studying concepts such as the pivotal role of microglia and the adaptive immune response in the CNS and phagocytosis, neuropathogenesis and the viral proteins involved in the CNS as an anatomical reservoir, as well as the involvement of oxidative stress mechanisms and the role of HIV-induced ROS in the development of HIV-associated neurocognitive disorders. Crucial HIV-1 pathogenicity factors must be known in order to identify molecular pathways that could serve as potential therapeutic targets for the treatment of this disease.

Guest Editor

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Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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