



Advances in HIV Vaccine Development

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Deadline for manuscript
submissions:

closed (31 December 2024)

Message from the Guest Editor

Upon infection, HIV integrates into the host human genome and cannot be cleared with current treatments. Hence, sterile prevention—a high bar for vaccine development—remains of the utmost importance to halt virus spread and disease. HIV infection is also chronic, leading to the accumulation of enormous viral genetic diversity and multifaceted immune evasion, such as trimer packaging, glycan shield, conformational dynamics, and the immunodominance of non-neutralizing epitopes, to name a few on the HIV envelope glycoprotein. These properties render HIV one of the most difficult viruses for vaccine development. Although neutralizing epitopes have been mapped to almost the entire surface of the HIV envelope, broadly neutralizing antibodies present numerous challenging traits and have not been induced with current vaccines.

In this Special Issue, all studies and reviews that shed new light on both prophylactic and therapeutic HIV vaccines are welcome.

Dr. Xueling Wu
Guest Editor





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Message from the Editor-in-Chief

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