



HIV Vaccine Research and Development: Challenges, Advancements, and Opportunities

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Message from the Guest Editor

Despite significant advances in antiretroviral therapies, the global HIV/AIDS pandemic remains a major public health challenge, with 38 million people currently living with the virus and 1.7 million people newly infected each year. The extraordinary genetic diversity and rapid mutation rate of the virus are the primary obstacles for a protective HIV vaccine. Accordingly, researchers have focused on structure (including computational)-based vaccine design, which utilizes the detailed knowledge of HIV's molecular structure and the host immune response to develop innovative vaccine candidates.

This Special Issue will collect original research papers and review articles that highlight the challenges, progress, and potential solutions in the quest to create an HIV vaccine, with a focus on structure-based design.

We hope that this collection of articles will inspire further research, collaboration, and innovation in the pursuit of an effective HIV vaccine, contributing to the global effort to end the HIV/AIDS pandemic.





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Message from the Editor-in-Chief

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