Special Issue

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

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.

Guest Editor

Dr. Sanjay Phogat Medicines Research Centre, GSK, Siena, Italy

Deadline for manuscript submissions

closed (31 October 2023)



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Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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