



HIV/AIDS Prevention Formulation Design and Optimization and Its Pharmacokinetic-Pharmacodynamic Evaluation

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closed (31 August 2024)

Message from the Guest Editors

Dear Colleagues,

Daily oral re-exposure prophylaxis (PrEP) has been highly effective in preventing HIV acquisition when taken as prescribed, although inadequate adherence reduces efficacy and public health benefits. The development of new long-acting PrEP modalities that do not require frequent dosing is being actively pursued in order to overcome suboptimal drug adherence to daily oral PrEP. A bi-monthly injection of cabotegravir formulated as a nanoparticle suspension for intramuscular injection was the first long-acting regimen approved by the Food and Drug Administration (FDA) for PrEP in men and women.

This Special Issue invites original research papers, communications or review articles that focus on the development of new long-acting drug formulations and controlled/extended release technologies for HIV PrEP, including (but not limited to) prodrug modifications, subdermal/subcutaneous implants, subcutaneous/intramuscular injectables, microarray patches, intravaginal rings, vaginal gels, inserts, and films. Articles studying pharmacokinetic/pharmacodynamic relationships in animal models are also considered as highly relevant for this Special Issue.





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