

Special Issue

Advancing HIV Prevention and Treatment: Pharmacokinetics, Pharmacodynamics, Toxicokinetics, Formulation and Delivery of Antiretroviral Drugs

Message from the Guest Editor

Long-acting injectable formulations of antiretrovirals represent a significant advancement in HIV care. These formulations enable sustained drug release, with dosing intervals of one or two months, reducing the risk of patients developing resistance due to fluctuating drug levels. Moreover, novel drug delivery systems such as polymer-coated nanoparticle antiretrovirals may address some of the limitations of current drugs. These nanoparticles can enhance drug delivery to important tissues, reduce dosing requirements, and facilitate drug penetration into lymphoid and central nervous system sites.

This Special Issue will provide readers with an overview of the current controversies and advancements in HIV PrEP and HIV treatment, with a focus on the use of pharmacokinetic and pharmacodynamic tools to solve clinical problems. It will also highlight recent developments in novel drug formulations and delivery systems, such as long-acting injectables, transdermal patches, and other innovative approaches that aim to improve adherence and effectiveness.

Guest Editor

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