

Special Issue

Advancing Biologic Drug Development Through Physiologically Based Pharmacokinetic Modelling and Simulations

Message from the Guest Editors

Biologic drugs represent an excellent opportunity to effectively and safely treat many diseases. These advanced therapies bring to the therapeutic options the “magic bullet” concept Paul Ehrlich proposed in the 19th century. However, understanding the pharmacokinetics and pharmacodynamics in the systemic circulation, specific tissues, and the site of action is of great interest to the scientific community in efficiently developing effective and safe drugs for our patients. This Special Issue aims to collect research works where physiologically based pharmacokinetic modeling strategies have been used to advance the knowledge of biological drugs during drug discovery and development. In this Special Issue, original research articles and reviews are welcome. Research areas may include, but are not limited to, biologics disposition, tissue distribution, receptor occupancy prediction, first-in-human dose selection, dose regimen optimization, and special populations.

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