Special Issue

Model-Based Pediatric Drug Formulation Development

Message from the Guest Editor

The goal of this Special Issue is to fill the knowledge gap in applications of mathematical modeling and simulations for pediatric formulation development. The research areas solicited for this Special Issue include but are not limited to topics such as the use of population PK models to identify formulation parameters responsible for PK variability of pediatric formulations, pediatric formulation optimization using in vitro in vivo correlation (IVIVC), use of mechanistic approaches such as physiologically based pharmacokinetic modeling (PBPK) to identify formulation parameters responsible for optimal PK, and use of artificial intelligence and machine learning techniques for excipient selection and toxicological evaluation of pediatric formulations.

Guest Editor

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