

Special Issue

Pediatric Drug Therapy: Safety, Efficacy, and Personalized Medicine

Message from the Guest Editor

Pediatric pharmacotherapy has unique problems owing to children's specific physiological features and developmental stages, which can markedly affect drug metabolism, effectiveness, and safety. Historically, several drugs have been administered to children without thorough pediatric-specific research, resulting in possible dangers. Recent breakthroughs in pharmacogenomics and model-informed precision dosing have facilitated personalized medicine approaches in kids, seeking to customize therapies according to individual genetic profiles and unique requirements. This Special Issue investigates recent research and advancements in pediatric pharmacotherapy, emphasizing safety evaluations, effectiveness assessments, and customized medicine approaches. We solicit submissions that explore subjects including pharmacokinetic and pharmacodynamic research in pediatric populations, the influence of pharmacogenomics on drug response prediction, novel clinical trial methodologies for children, and case studies illustrating the effective application of personalized therapies in pediatric healthcare.

Guest Editor

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Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

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