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Drug Analysis and Therapeutic Drug Monitoring

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Message from the Guest Editors

Despite the complex pharmacokinetics of many drugs and pharmacological variabilities, fixed dosing is still used in many clinical treatments. This often results in large variability in intra- and inter-individual drug exposure and can lead to a significant proportion of patients experiencing toxicity or therapeutic failure, leading to poor patient outcomes and a significant health and economic burden. The field of therapeutic drug monitoring is becoming an important clinical decision support tool in different fields of pharmacotherapy and has been improved to provide in vivo pharmacokinetic information for the personalized modulation of drug regimens. The aim of this SI is to collect research and review articles that show recent advances, not only in the most basic part of drug analysis, but also in its clinical implication as part of the therapeutic drug monitoring process. There will be great interest in works that describe analytical techniques to quantify drugs in biological samples to pharmacokinetic–pharmacodynamic studies, exposure–toxicity or exposure–efficacy correlation studies, and safety studies or rational drug use studies, among others.





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Message from the Editor-in-Chief

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