Therapeutic Drug Monitoring and Pharmacokinetics-Based Individualization of Drug Therapy

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Message from the Guest Editors

Dear Colleagues,

The field of therapeutic drug monitoring (TDM) is experiencing a revolution; it is becoming an important supporting tool for clinical decision making in various fields of pharmacotherapy. From the simplified evaluation of drug concentrations collected at the trough or, in certain cases, at other time points following drug administration, based on therapeutic ranges, this field has improved into one with a focus on providing in vivo pharmacokinetic information for the personalized modulation of drug regimens.

The aim of this Special Issue is to deliver up-to-date, state-of-the-art research regarding the analysis of drugs and their metabolites in clinical samples, the use of novel sampling technologies including microsampling, and the employment of bioinformatic applications to translate TDM results to clinically relevant information. The application of these tools for use in assessing patient adherence, countering adverse effects and events, establishing increased effectiveness and the safety of drug therapy, improving the cost-efficiency of treatments, or identifying patient sub-populations based on TDM, among other applications, are of great interest.

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Message from the Editor-in-Chief

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