

Special Issue

Innovative Tools for Therapeutic Drug Monitoring, 2nd Edition

Message from the Guest Editor

The variability of drug response complicates the prediction of the risk–benefit balance, limiting the real benefit of a treatment. The pharmacometrics approach provides an attractive solution to characterize the variability of response to drugs and identify the clinical and biological parameters for therapeutic drug monitoring. If this variability is considered, a priori adaptation can be proposed. A more precise a posteriori optimization can also be made when integrating drug concentrations and metabolites in biological matrices, combined, if necessary, with pharmacogenetic data. The integration of clinical data (patient characteristics, clinical response, undesirable effects, toxic effects) finally makes it possible to propose a more rational individualization. This Special Issue provides a panorama of state-of-the-art therapeutic drug monitoring and its tools. Examples of modern approaches to adapting dosages for different pharmacological classes in different medical specialties and situations such as anesthesia, infection, psychiatry, neurology, cardiology, oncology, intensive care medicine, nephrology, chronic inflammatory diseases, etc., are also welcome.

Guest Editor

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