

Special Issue

Optimizing Drug Therapy Through Pharmacokinetics and Therapeutic Drug Monitoring

Message from the Guest Editors

It is common knowledge that advances in individualized therapy have greatly contributed to improving drug treatment outcomes. Research on optimizing therapy through pharmacokinetic changes and therapeutic drug monitoring based on basic patient information, biomarkers and genetics has made remarkable progress and is expected to contribute greatly to future medical advances. In particular, high-quality evidence is desirable for special populations (e.g., pediatrics, pregnancy, obese, and dialysis), for which patient numbers are small and sampling is difficult. In recent years, there has been an increasing number of reports on optimizing therapy using mathematical models such as population pharmacokinetic models and physiologically based pharmacokinetic models, as well as utilizing artificial intelligence. This Special Issue provides insights into individually optimized treatment based on pharmacokinetics and TDM, regardless of the field, including various domains such as anticancer, antimicrobial, cardiovascular, immunosuppressive and psychiatric drugs.

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