

Special Issue

Therapeutic Drug Monitoring for Individualized Cancer Therapy

Message from the Guest Editors

Cancer remains one of the greatest global health burdens despite advances in diagnostics and treatment. Targeted therapies have improved tolerability, yet the one-size-fits-all concept is often inadequate, as suboptimal dosing can cause toxicity or disease progression. Therapeutic drug monitoring (TDM), supported by model-informed precision dosing (MIPD), offers a path toward truly individualized therapy. These approaches combine sensitive quantification of anticancer drugs in biological samples with population pharmacokinetic and pharmacodynamic analyses, accounting for individual physiological characteristics. Feasibility studies of TDM for diverse anticancer drugs are rapidly expanding, alongside progress in analytical methods and PK/PD profiling.

This Special Issue welcomes original research and reviews on all aspects of TDM of anticancer drugs: development of innovative bioanalytical methods, application to patient samples, results from clinical PK and PD studies, adherence monitoring, pharmacometric modeling, and simulations. We aim to highlight the current state of the field and inspire further advancement in precision oncology.

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Deadline for manuscript submissions

30 November 2026



Pharmaceutics

an Open Access Journal
by MDPI

Impact Factor 5.5
CiteScore 10.0
Indexed in PubMed



mdpi.com/si/253804

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