Special Issue

Artificial Intelligence Applications in Precision Oncology

Message from the Guest Editors

Precision oncology is revolutionizing cancer care by tailoring treatment strategies to each patient's individual characteristics, including demographic, clinical, pathological, radiological, and genetic variables and molecular profiles, as well as other factors. These strategies have seen rapid advancement in recent years, generating vast numbers of complex data. As the complexity of patient data grows, the need for efficient tools to store, retrieve, and analyze them has become increasingly important. Artificial intelligence (AI) is rapidly evolving, offering techniques like data mining, machine learning, and deep learning that are gaining popularity in clinical applications. AI has unique capabilities for handling complex data, offering valuable benefits such as identifying patterns and making predictions. AI can bring numerous benefits to the clinical field, especially in precision oncology. However, a great deal of untapped potential remains to be explored in this area. This Special Issue aims to provide a platform to highlight the applications of AI in precision oncology and foster a well-rounded understanding of how AI can be applied in precision oncology.
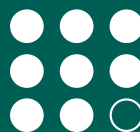
Guest Editors

Prof. Dr. Chi-Jie Lu

Department of Information Management, Fu Jen Catholic University, New Taipei City 24205, Taiwan

Dr. Cheuk-Kay Sun

Division of Hepatology and Gastroenterology, Department of Internal Medicine, Shin Kong Wu Ho-Su Memorial Hospital, Taipei, Taiwan

Deadline for manuscript submissions

closed (25 January 2025)

Journal of Personalized Medicine

an Open Access Journal by MDPI

**CiteScore 6.0
Indexed in PubMed**

mdpi.com/journal/jpm

About the Journal

Message from the Editor-in-Chief

Journal of Personalized Medicine is one of the few journals that covers the diverse areas involved in the field, including research at basic, translational, and clinical levels. It focuses on "omics"-level studies that seek to define the basis of interindividual variation in susceptibility for a disease, its prognosis or definition of clinical

subsets, and response to therapy (pharmacogenomics). We are also interested in systems biology as it relates to interindividual variation, and research on new methodologies, informatics, and biostatistics, in the aforementioned areas.

Editor-in-Chief

Prof. Dr. Kenneth P.H. Pritzker
Department of Laboratory Medicine and Pathobiology, Department of Surgery, University of Toronto, 6 Queens Pk Crescent W.F, Toronto, ON M5S 3H2, Canada

Author Benefits

High Visibility:
indexed within Scopus, PubMed, PMC, Embase, and other databases.

Journal Rank:
CiteScore - Q1 (Medicine (miscellaneous))

Rapid Publication:
manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.5 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the first half of 2025).