Special Issue

Cancer Biomarker Research and Personalized Medicine 2.0

Message from the Guest Editors

Treating individual patients based on specific factors, such as biomarkers, is what differentiates personalized medicine from standard treatment regimens. Although personalized medicine can be applied to almost any branch of medicine, it is perhaps most easily applied to the field of oncology. Cancer is a heterogeneous disease. Through biomarkers, patients could be separated into cohorts with respect to distinctions in disease predisposition, prognosis, and expected response rates to different treatments.

There is currently a major drive in oncology to achieve personalized cancer medicine through the identification and use of disease-specific biomarkers. These biomarkers include genes, intracellular or secreted proteins, circulating tumor cells, exosomes, and DNA. This Special Issue aims to describe current developments in biomarker research ranging from in vitro and animal model studies, through to preclinical and clinical validation trails. In doing so, we will describe exciting new tissue- and blood/urine-based biomarker research, highlighting the advantages and potential limitations of incorporating biomarkers into clinical practices.

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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.

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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).

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