

Special Issue

Personalized Pain Medicine: Biomarkers and New Therapeutic Frontiers

Message from the Guest Editor

Chronic pain remains one of the most complex and debilitating conditions in medicine, affecting millions worldwide. Despite advances in pharmacological and interventional therapies, the heterogeneity of pain disorders poses a significant challenge for effective treatment. In recent years, the emergence of personalized pain medicine has opened new avenues for precision diagnosis and tailored interventions. This Special Issue aims at exploring the role of biomarkers in pain medicine and their potential to transform patient management. By integrating molecular, neurophysiological, and imaging biomarkers, clinicians and researchers can move beyond the traditional trial-and-error approach, improving both efficacy and safety in pain treatment. We welcome contributions on cutting-edge research covering topics such as novel biomarkers for pain phenotyping, genetic and epigenetic insights, neuroimaging advances, and AI-driven predictive models. Additionally, studies on the clinical application of biomarkers in personalized interventions, pharmacogenomics, and non-invasive monitoring are of particular interest.

Guest Editor

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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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