

Special Issue

Genetics, Genomics, and Precision Medicine in Colorectal Cancer

Message from the Guest Editors

Colorectal cancer (CRC) is one of the most common and lethal cancers worldwide, resulting both from germline pathogenic genetic variants and sequential acquisition and accumulation of somatic genomic alterations.

Pharmacogenetics and pharmacogenomics affect the choice of therapeutic strategies, directing the selection of specific drugs and their dosing for CRC patients. The role of genetic and genomic determinants as diagnostic, prognostic, and therapeutic biomarkers, as well as targets of drug treatment, is robustly increasing year after year. Approval in past years of anti-EGFR monoclonal antibodies, immune checkpoint inhibitors, and protein kinase inhibitors of oncogenic mutations, such as BRAFV600E, has improved the overall survival of CRC patients that, however, remains limited, especially in the metastatic setting. Thus, more advanced knowledge is needed to improve current clinical results. The aim of this Special Issue is to collect original research articles and reviews on genetics and genomics that might offer relevant insights in the prediction of CRC diagnosis, prognosis, and therapeutic outcome, leading to improvement of precision medicine in CRC.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Journal of Personalized Medicine (JPM), ISSN 2075-4426) is an international, open access journal aimed at bringing all aspects of personalized medicine to one platform. *JPM* publishes cutting edge, innovative preclinical and translational scientific research and technologies related to personalized medicine (e.g., precision medicine, pharmacogenomics/proteomics, systems biology, 'omics association analysis). *JPM* is covered in Scopus, the Science Citation Index Expanded (SCIE), PubMed, PMC, Embase, and other databases.

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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).