

Special Issue

Breast Cancer: New Diagnostic and Therapeutic Approaches

Message from the Guest Editors

As the most diagnosed form of cancer worldwide, breast cancer (BC) represents a major health issue. In recent decades, researchers have intensively exploited next-generation sequencing (NGS) approaches to discover new actionable targets of breast tumor specimens, leading to the development of new therapy regimens (i.e., CDK4/6 inhibitors, PIK3CA inhibitors, etc.). More recently, novel approaches have been developed to improve cancer molecular characterization at epigenetic, transcriptomic, genetic and genomic levels. Moreover, the investigation of analytes retrievable in the peripheral blood (i.e., circulating tumor cells (CTCs), circulating tumor DNA (ctDNA), extracellular vesicles (EVs), etc.) has demonstrated an unprecedented potential to obtain further information concerning the core tumor. The topics of interest for this Special Issue can include, but are not limited to, the following:

- Prognostic and predictive biomarkers of breast cancer;
- Novel approaches to improve breast cancer characterization;
- Liquid biopsy in breast cancer;
- Genetic alterations in breast cancer

Guest Editors

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Deadline for manuscript submissions

closed (31 October 2025)



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About the Journal

Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

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