

Special Issue

Molecular Mechanisms of Breast Cancer: Toward Advanced Therapy

Message from the Guest Editors

Breast cancer is the most common cancer in women worldwide. In recent years, investigations in the biology of breast cancer have led to the determination of therapeutic strategies (e.g., hormonal therapy) based on histology and biomarkers (estrogen receptor, progesterone receptor, HER2). In particular, with the recent development of the molecular biology of cancer, devices using advanced technologies have appeared, which allow us to analyze the genome using circulating tumor cells in the blood, microRNAs in exosomes, and the composition of immune cells in tumors. In the future, the emergence of molecularly targeted drugs and immune checkpoint inhibitors will lead to a trend towards precision medicine to identify effective anti-tumor drugs, which will in turn lead to new therapeutic approaches. The scope of this Special Issue is to deepen our understanding of the molecular biology in breast cancer, and we hope to disseminate information on the latest findings and idea of advanced therapies, leading to the discovery of new molecular diagnostic techniques and targeted therapeutics.

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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