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# **Molecular Mechanisms of Breast Cancer: Toward Advanced Therapy**

Guest Editors:

### Dr. Masa-Aki Shibata

Department of Anatomy and Cell Biology, Division of Life Sciences, Osaka Medical and Pharmaceutical University, 2-7 Daigaku-machi, Takatsuki 569-8686, Osaka, Japan

#### Dr. Sasagu Kurozumi

Department of Breast Surgery, International University of Health and Walfare, Narita 286-8686, Chiba, Japan

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### 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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# **Editor-in-Chief**

#### Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

### Message from the Editor-in-Chief

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