

Special Issue

Breast Cancer Theranostics

Message from the Guest Editors

Breast cancer is the most common invasive cancer in the world and the second leading cause of cancer deaths in females. The heterogeneity of breast cancer poses a challenge to its management. Various factors affect the prognosis, aggressive phenotype, and treatment response of breast cancer. A major challenge in the management of breast cancer is individual variability among patients. Recently, increased understanding of breast cancer biology had led to the identification of specific targets, expressed on cancer cells, that can be used for diagnosis and therapy at the molecular level of a specific individual, thus improving the therapeutic outcome. Theranostics is the combination of the diagnostic and therapeutic agents targeted at the same biomarker such as HER2. The advantage of the theranostic approach is that it identifies individuals who would benefit from a specific treatment and, thus, prevent the implementation of potentially futile treatments. This Special Issue of *Diagnostics* aims to provide an overview of the current developments in theranostics for breast cancer.

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