



## Breast Cancer: Pathology, Diagnosis and Treatment

Guest Editor:

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### Message from the Guest Editor

Breast cancer (BC), the most common female cancer, risk factors include advanced age, obesity, alcohol abuse, smoking, and physical inactivity, higher exposure to estrogen, and postmenopausal hormone replacement therapy. Although most cases of BC are sporadic, a third can be attributed to familial (20–30%) or hereditary (5–10%) causes.

In recent decades, basic and translational studies have led to new biological insights, that have contributed to the improvement of diagnostic and treatment options for BC, as well as to the development of predictive and prognostic biomarkers useful to avoid unnecessary treatments. Furthermore, several clinical trials have shown the possible (old and new) toxicities of cancer treatments, suggesting the best management strategies in clinical practice. However, BC management, due to the high heterogeneity of the disease, is still a significant challenge in research.

keywords

- breast cancer
- Luminal A/B
- HER2
- triple negative
- CDK4/6 inhibitors
- multigene assays
- antibody-drug conjugate





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