

The Molecular Biology Behind the Spread of Breast Cancer Inflammatory Breast Cancer: Symptoms and Genetic Factors

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Abstract : In the USA, about 5% of women diagnosed with breast cancer annually are affected by Inflammatory Breast Cancer (IBC), which is a highly aggressive type of Locally Advanced Breast Cancer (LABC). It is a type of LABC that is clinically and pathologically different, known for its rapid growth, invasiveness, and ability to promote the growth of blood vessels. Almost all women are found to have lymph nodes affected upon diagnosis, while around 36% show obvious distant metastases. Even with the latest improvements in multimodality therapies, the outlook for patients with IBC remains bleak, as the average disease-free survival time is less than 2.5 years. Recent research on the genetic factors responsible for the IBC phenotype has resulted in the discovery of genes that play a role in the advancement of this illness. The development of primary human cell lines and animal models has assisted in this research. These advancements offer new possibilities for future actions in identifying and treating IBC.

Keywords : breast cancer, inflammation, diagnosis, IBC, LABC

Conference Title : ICO 2024 : International Conference on Oncology

Conference Location : Melbourne, Australia

Conference Dates : May 02-03, 2024