5th World Congress on
Breast Cancer

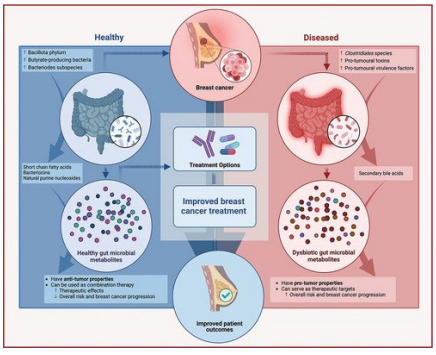
July 14, 2025

Webinar

Gut microbiome analysis in breast cancer -a step for word to precision medicine

R Karthika
Vivekanandha College of Arts and Science for Women, India

Breast cancer is one of the second most common cancer especially affecting women worldwide, the traditional research focuses on genetic, hormonal and environmental factors in individual breast cancer patients. However, emerging research hotspot in the field of human gut microbiome plays an important role in cancer development and progression, the gut microbiome consists of trillions of microorganisms, including not only bacteria but also fungi, viruses and Achaea which involves a key factors of immune function metabolism and inflammation with the continuous deepening of microbiome research all processes deeply involved in cancer biology. Recent studies have divulge well defined alterations in the gut microbiota composition of breast cancer patients compared to healthy individuals or those at different stages of breast cancer, these discovery suggest that the gut microbiome may not only influence breast cancer risk but also affect diseases progression, treatment response and patient outcomes with advances in sequencing technologies and computational analysis the strengthening of interdisciplinary cooperation, research into the gut microbiome role in breast cancer is rapidly expanding a solution for personalized medicine and disease prevention.



Biography

I am R. Karthika, currently pursuing a Ph.D. in Biotechnology at Vivekanandha College of Arts and Sciences for Women (Autonomous), Tamil Nadu. My research focuses on breast cancer analysis in the gut microbiome. I am interested in presenting a review based on my research findings in this area.

Received: July 03, 2025; **Accepted**: July 07, 2025; **Published**: July 25, 2025