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Insights of breast cancer epigenetics: An intersection between the endogenous and exogenous systems

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Epigenetics acts as a vital intersect between environmental factors being exogenous and cellular and pathological processes being endogenous. Many studies have suggested that epigenetics alterations manifest to diseases as result of environmental, microbial, UV light exposure, dietary including alcohol consumption and smoking and lifestyle factors increasing the risk of cancer. The reversibility fact of epigenetics effects serve as a fertile platform in oncological and cancer studies, of which DNA methylation, histone modification, microRNA expression and many others widen the doors for biomarker search for early detection, diagnosis, classification along with therapy targets and prevention. Aberrations in DNA methylation pattern and miRNA expression profile are established in breast cancer and exhibit good example of epigenetic effect resulting from the exogenous and exogenous interactions. Herein, this paper will shed light on the predisposition of these exogenous epigenetic effects factors like diet and the potential reversibility and preventive possibilities of breast cancer as endogenous manifestation.

Biography

Manal H Al Khanbashi is currently working as a Lecturer at Applied Science Department of Higher College of Technology, Oman. She has completed her PhD in Medicine, Breast Cancer Genetics and graduated from Sultan Qaboos University and Karolinska Institute, Sweden. She has also worked in breast cancer epigenetics where miRNA, methylation and cancer related studies were covered.

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