Epigenetics in breast cancer: Subtype-specific regulation and therapeutic implications

by

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Abstract:

Breast cancer is the most common cancer in women. Despite recent improvement in mortality of breast cancer, this disease remains the second most common cause of death of women worldwide. Basal-like, triple-negative breast cancer (TNBC) is an aggressive subtype of breast cancer for which chemotherapy is the main treatment option. It has been shown recently that super-enhancers play an important role in upregulating the expression of cancer driver genes. However, an understanding of the super-enhancers in different subtypes of breast cancer, and their therapeutic implications, are lacking. In this presentation, I will discuss a bioinformatics approach to identify subtype-specific super-enhancers, and the roles of novel genes regulated by these super-enhancers in the pathogenesis of TNBC.

Biography:

Dr. Rebecca Chin is an Assistant Professor of the Department of Biomedical Sciences at City University of Hong Kong. Dr. Chin received her Bachelor of Technology's degree from the University of Auckland in New Zealand. She completed her Ph.D. in Microbiology and Immunology at Albert Einstein College of Medicine in 2006. With a postdoctoral fellowship from Susan G. Komen for the Cure Breast Cancer Foundation, Dr. Chin studied the signal transduction events that drive breast cancer metastasis at Harvard Medical School (HMS). In 2013, she began her career as an Assistant Professor at HMS. Dr. Chin joined the City University of Hong Kong in September 2016. She is a V Scholar Award recipient, and was named an Albert Wyrick Scholar, which recognizes young scientists who pioneer techniques to make breakthroughs in cancer research. Dr. Chin is also a recipient of Howard Temin Pathway to Independence Award (NIH K99) and Young Scientists Fund of the National Natural Science Foundation of China.

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Time : 4:00 p.m.
Venue : Lecture Theatre C
The Hong Kong University of Science & Technology
Clear Water Bay, Kowloon

(Host faculty: Prof. Danny Leung)
All are Welcome!!