Targeting Breast Cancer Stem Cells in Metastasis

Metastasis accounts for 90% of breast cancer mortality and its control requires a better understanding at both cellular and molecular levels. Cancer stem cells (CSCs) are a subset of cancer cells with stem cell properties to self-renew, proliferate, and differentiate, and thus considered the root of tumorigenesis as well as the sources of metastasis and therapy resistance. In collaboration with the local and national experts in the related fields, the goal of the Liu laboratory is to fundamentally understand and strategically target breast CSCs (BCSCs) in metastasis, thereby impacting cancer medicine. We aim to: (1) determine the social behavior and signaling regulators of BCSCs in metastasis; (2) develop exosome-based circulating diagnostics and drug delivery system to monitor and target BCSCs; and (3) utilize cutting-edge single cell sequencing and imaging technologies to synergize our research with collaborators. Dr. Liu’s current research has been funded by National Cancer Institute (R00), American Cancer Society, Komen Foundation, DOD Breast Cancer Research Program Breakthrough Level 2, and other foundations.

Join Us

Friday, April 15, 2016
10:00 – 11:00 a.m.
Searle Seminar Room
Lurie Research Center
303 East Superior Street
Chicago, Illinois

Special Guest

Huiping Liu, M.D., Ph.D.
Assistant Professor, Case Western Reserve University

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