

DR. SWARNALI ACHARYYA (2014 AWARD)

Reactivating anti-tumor granulocytic cells to provoke immune attack against breast cancer metastasis

We have identified a subset of immune cells that express the CXCR2 receptor that have a pro-metastatic function in breast cancer models. We have discovered specific signaling pathways that are triggered in cancer cells in response to these immune cells that promote cancer cell survival under stress (publication in preparation). Using patient samples from longitudinal clinical studies, we are testing whether these immune cells function in a similar manner during metastatic progression in human breast cancer.