

Title: Ceramide kinase, UVRAG, and ceramide-1-phosphate: The triumvirate of breast cancer metastasis

Although the 5 year survival rate for breast cancer patients has greatly increased to approximately 90%, the 10% of patients not surviving to 5 years is linked to a higher rate of distant metastases. Thus, it is vital to understand the mechanisms that lead to/drive metastasis in these subtypes of breast cancer; one of the “last hurdles” for breast cancer therapeutics. Indeed, our long term goal is to increase breast cancer survival to 100%, and our proposed pilot study will begin the march toward this long term goal by identifying what drives metastasis in breast cancer.