



**Susan G. Komen
Research Grants – Fiscal Year 2014**

This research grant was approved by Komen’s national board of directors for FY2014 Research Programs funding. This grant will be funded upon the execution of grant agreements between Komen and the grantee institutions.

Establishing novel therapeutic approaches for breast cancer

Investigator(s): Alan Ashworth, Ph.D.

Lead Organization: Institute of Cancer Research

Grant Mechanism: KS

Grant ID: SAC110003

Public Abstract:

One of the main issues for women with breast cancer and their physicians is the selection of the best treatment. For a significant number of patients, effective treatments already exist. However, for others the number and effectiveness of different treatment options is still limited. To address this, we propose to initiate a project aimed at identifying new ways to treat the disease. Specifically, we aim to identify those genes and proteins that when targeted with drug result in the death of breast tumour cells. To do this, we will first identify sets of genes using a process known as functional genomics that exploits many of the tumour cell models that exist for breast cancer. As well as identifying the key proteins to target, we also aim to understand exactly which patients to use these potential new treatments in. This biomarker identification will maximize the potential for ensuring the right patient gets the best treatment and that overall, the outcome for the patient is better.