

Courtesy of Sharon Lawrence. Used with permission.

Sharon Lawrence
7.342 – Cancer Biology
Project 2 Topic
November 9, 2004

Paper Choice: *Prospective identification of tumorigenic breast cancer cells*

Description:

In this paper, the authors studied mouse models of breast cancer, and came to the conclusion that a subset of cells, distinguished by certain cell markers, initiate tumorigenesis and produce both tumorigenic and non-tumorigenic cells in breast cancer. They produced these models by either implanting human breast tumor samples or injecting human breast tumor cells into the mammary pads of mice.

I think the next step is to determine if their data is supported by autochthonous breast tumors in mice. I propose developing murine mouse models of breast cancer that express the same cell surface markers. These models would allow me to assess the differences and similarities between autochthonous and non-autochthonous models, and to possibly determine if a subset of tumorigenic cells is always found in breast cancers.