

MSTP STUDENT DESCRIPTION

NAME: Rachael Rowswell-**Turner**

e-mail address: rowswell@buffalo.edu

Undergraduate College/University attended: SUNY Geneseo

Major: Biology

Years in MSTP (1-8): **4**

DEPARTMENT: Microbiology and Immunology

THESIS ADVISOR: Nejat Egilmez

RESEARCH DESCRIPTION:

PhD Thesis title: Investigating the Mechanism by which Intratumoral Injections of IL-12 and Chemotherapy Cause Long Term Mammary Tumor Regression in FVBNher-2/neu mice

Date of Completion (or expected) of PhD: 2010

Research Description: I am working with transgenic FVBNher-2/neu mouse model, her-2/neu is a gene which is overexpressed in 20-30% of human breast cancer cases. These mice develop spontaneous mammary tumors between 6 and 10 months of age. My project involves treating these tumors with IL-12 in conjunction with chemotherapy and studying the kinetics and activation of cytotoxic T lymphocytes, tumor-specific T cells, and T regulatory cells as well as cells of innate immunity.

PUBLICATIONS / ABSTRACTS PRESENTED:

PROFESSIONAL/EDUCATIONAL MEETINGS ATTENDED (name of meeting, dates of attendance, location):

Northeastern Algal Society Symposium and Annual Meeting, April 15-17, 2005; Rockland ME
Buffalo Conference of Immunology, September 13-14, 2007; Niagara Falls, NY.

AWARDS / HONORS:

MEDICAL SCHOOL ACTIVITIES: Women's Health Interest Group

EXTRACURRICULAR INTERESTS: Hospice volunteer, Leukemia and Lymphoma Society marathon fundraiser