

DEPARTMENT OF SCIENCE & HEALTH
UC CLERMONT

SUMMER RESEARCH OPPORTUNITIES FOR UNDERGRADUATE WOMEN

APPLICATION DEADLINE: 03/01/2018

PROJECT TITLE: Nanocarriers for Chemotherapy

Cliff Larrabee
UC Clermont
525F Snyder
Batavia, OH 45106
cliff.larrabee@uc.edu
Phone: 513 732 5235
Fax: 513 732 5304

Project Description

Area of research:

Design and characterization of nanocarriers for chemotherapy.

Research tasks the student will be performing:

Synthesis and chemical, and physical characterization of surfactant vesicles.
Functional characterization of the interactions between the nanocarriers and
chemotherapeutic agents.

Training that the mentor will provide the WISE student:

Simple organic synthesis, free-radical polymerization, spectroscopy
(infrared, nuclear magnetic, and ultraviolet/visible), ultrafiltration,
dialysis, interpretation of quasi-elastic light scattering and transmission
electron microscopy results.

Specific requirements, if any, that the mentor expects the student to meet:

One year of general chemistry, with lab, is a required prerequisite. The
student will be expected to present her results at an appropriate national or
international scientific conference within one year of finishing the project.