COLLEGE OF PHARMACY

SUMMER RESEARCH OPPORTUNITIES
FOR UNDERGRADUATE WOMEN

APPLICATION DEADLINE: March 1, 2016

The College of Pharmacy in collaboration with P&G is pleased to offer the following research project for the summer of 2016. Interested students are urged to contact the faculty member(s) directing the project that most interests them. By contacting the faculty member, you can discover more about the project, learn what your responsibilities will be and, if possible, develop a timetable for the twelve-week research period.

PROJECT TITLE: Mechanism of a Novel Ingredient in Skin Care Products on Skin health

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Project Description

The objective of the project is to provide fundamental understanding of the clinical efficacy of a novel ingredient in skin care products on skin health. It is hypothesized that this “pro-active” ingredient enhances the skin penetration of an excipient in the skin care products to improve/repair the barrier property of skin. The ultimate goal is to understand the mechanism of this “pro-active” ingredient and this will allow the identification of new ingredients and assist formulation development for the same or better skin health benefits.

In this research project, experiments will be conducted with cadaver skin in Franz diffusion cells in vitro. The penetration of excipients into skin will be investigated with and without the presence of novel “pro-active” ingredients under different conditions. The data will be analyzed to examine the skin penetration enhancement hypothesis.

Requirements: Students are required to have engineering, chemistry, or pre-pharmacy backgrounds and have completed their college sophomore level classes (including calculus, general chemistry, and physics); the study involves radioactive materials and human tissues.