

RESEARCH EXPERIENCES FOR STUDENTS

The experiences listed are available to Honors students for their Honors Thesis; for doctoral students for their Research Practicum or for an independent study. Paid positions are indicated. If you are interested in working with the faculty on a project, please contact them directly.

Faculty	Experience	Student Opportunity
Dr. Tad Pace twwpace@email.arizona.edu	<p><i>Title: Meriva for treatment-induced inflammation and fatigue in women with breast cancer.</i> This study is determining the effectiveness of Meriva, a unique formulation of the natural product curcumin, to decrease inflammation and fatigue in women after radiotherapy and chemotherapy for breast cancer. Inflammatory activation as a result of treatment for breast cancer has been associated with long-term fatigue in breast cancer survivors. Although curcumin has been found to exert powerful anti-inflammatory actions at a number of levels (including NF-κB, a lynchpin of the inflammatory signaling cascade), concern exists about absorption of curcumin. Meriva is a unique formulation that has been shown to enhance blood levels of curcumin.</p>	Statistical analyses of clinical and biological data from fatigued breast cancer survivors treated with Meriva curcumin
Dr. Tad Pace twwpace@email.arizona.edu	<p><i>Title: Meriva for treatment-induced inflammation and fatigue in women with breast cancer.</i> See above description.</p> <p><i>Title: Stress-Related Psychobiology and Inflammation in Diabetic African-American Women.</i> Low socioeconomic status is strongly associated with exposure to traumatic events and elevated rates of psychiatric illness, including post-traumatic stress disorder PTSD and major depressive disorder. These psychiatric illnesses are predictive of increased risk for cardiovascular disease and metabolic disorders. Studies proposed in this application will enhance our understanding of the biological mechanisms linking trauma-related psychiatric illness to medical illness.</p>	Laboratory bench analyses of plasma and cell samples collected from a variety of patient groups including: Fatigued breast cancer survivors treated with Meriva curcumin; T2D patients with PTSD/ major depression/early life trauma
Dr. Kimberly Shea kshea@email.arizona.edu	<p><i>Title: Vision simulation in home environments to promote a greater understanding of fall risks in households of low vision glaucoma people</i></p>	Research Assistant (paid); total 30 hours

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	The student will assist with the project for 30 hours. The mixed method includes five dyads that complete surveys and participate in a focus group.	
Dr. Shu-Fen Wung wung@email.arizona.edu	<i>Title: Capture Intuitive Reasoning Using Artificial Intelligence For Surveillance of Patient Deterioration</i>	Learn how to collect clinical data from electronic medical system related to patient deterioration, build data files, and perform basic statistical analysis under guidance. Prefer DNP student(s) (ACNP track and student resides locally preferred) who has in-patient clinical experience. Part of data collected may be used for DNP project.
Dr. Shu-Fen Wung wung@email.arizona.edu	<i>Title: Profiling Root Causes of False Alarms From Physiologic Monitors</i>	Learn how to collect clinical data from electronic medical system related to alarms from physiological monitors, building data files, and perform basic statistical analysis under guidance. Prefer DNP student(s) who are in ACNP track, students reside locally, and ICU experience preferred. Part of data collected may be used for DNP project.