

MORGAN MITCHELL

4301 Fernwood Dr.
Houston, TX 77021

713-705-1749
morganem03@yahoo.com

Education:

University of Houston, Department of Biology and Biochemistry, Doctoral Candidate, 2013-present
University of Houston-Sugar Land, Master of Arts in Interdisciplinary Studies, 2012
Spelman College, Bachelor of Science, Chemistry, 2007

Research:

Doctoral: Protein Interaction Mechanisms for PTEN Suppression of Cancer and Endometriosis

- Identification of proteins involved in the activity of PTEN
- Establishing correlations between PTEN-protein complexes and PTEN mutations with the mechanisms of cancer suppression in specific cancer lineages
- Defining new targets for novel therapeutics in multiple different cellular proliferative diseases using a combined approach of co-immunoprecipitation and mass spectrometry

Master's:

"The anti-neoplastic effects of phytochemicals and chemotherapeutics and the putative role of microRNAs on LnCap prostate cancer cells". Master's Research Thesis. Unpublished. 2012

Publications:

Mitchell M., Mali S., King C., and Bark S. "Enhancing MALDI Time-Of-Flight Mass Spectrometer Performance through Spectrum Averaging." Accepted, PLOS ONE. Feb 2015

Gunasekera R., Somasundaram S., **Mitchell M.**, and Black H. "Lutein inhibits growth of human prostate cancer cells and potentiates capsaicin, curcumin, and the traditional chemotherapy agent, camptothecin". Accepted, Current Topics in Phytochemistry. Jan 2015

Presentations:

Mitchell M., Somasundaram S., and Gunasekera R. "The anti-neoplastic effects of camptothecin with and without curcumin on prostate cancer cells and the role of miRNAs on the LnCap prostate cancer cell transcriptome". Oral Presentation. Texas Genetics Society. Mar 22-24, 2012

Somasundaram S., **Mitchell M.**, Ilustre A., Jayaprakasha G.K., Patil B., and Gunasekera R. "Modulation of cell growth by curcumin and camptothecin in human prostate cancer cell lines and putative effects of miRNA populations." Poster presentation. Cancer Prevention and Research of Texas (CPRIT). Nov 15-17, 2011

Employment:

Teaching Assistant, University of Houston, Jan 2015-present

Duties: Teaching Biochemistry II lab undergraduate course, grading assignments and quizzes, assisting students with experiments, being a liaison between the students and instructor

Research Assistant, University of Houston, Aug 2013-Aug 2014

Duties: Research in mass spectrometry and proteomics, specifically protein-protein interactions of PTEN and p53 tumor suppressors in endometrial and ovarian cancers

Extracurricular Activities:

BioScience Graduate Society; Vice President, Jan 2013-present

Association for Women in Science Gulf Coast Houston, Oct 2014-present

The Mademoiselles Alumnae, Inc. Awards and Recognitions Chair, Aug 2013-present

Beta Beta Beta National Biological Honor Society; Phi Zeta Chapter Treasurer, Oct 2011-Dec 2012

Honors:

University of Houston Cougars Athletic Alliance Scholarship Recipient, Marguerite Ross Barnett Presidential Award, Jul 2014