

Samer Metri

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EDUCATION

University of California, Irvine

Bachelor of Science, Genetics

GPA: 3.81 / 4.0

Irvine, California

Expected Graduation: June 2018

Dean's Honors List (9 Quarters)

RESEARCH EXPERIENCE

UC Irvine Medical Center

Shadowing Position

Irvine, California

March 2018 – Present

- Observed Dr. Maxwell Jen's patient interaction and discussed test results and medical treatment options to gain exposure to the treatment of patients suffering traumatic accidents in the Emergency Department

Sue and Bill Gross Stem Cell Research Center, Seiler Lab

Undergraduate Researcher

Irvine, California

January 2017 – Present

- Conducted protein extraction and western blot analysis on human eye tissue and human embryonic stem cell neutrospheres to analyze and compare protein expression depending on the age of the tissue
- Performed immunohistochemistry staining of eye sections following retinal progenitor organoid transplantation into humanized rats to analyze the makeup and localization of cell markers

Sue and Bill Gross Stem Cell Research Center, Boiko Lab

Undergraduate Researcher

Irvine, California

October 2016 – June 2017

- Collected, imaged, and analyzed mouse squamous cell carcinoma tumors to determine the clonal contribution of stem-like cells using a rainbow reporter construct and fluorescent microscopy
- Performed immunohistochemistry staining to verify the presence of proteins markers and consulted with a pathologist to correctly identify various types of squamous cell carcinoma tumors

UC Irvine Department of Chemistry, Esser-Khan Lab

Undergraduate Research Assistant

Irvine, California

October 2015 – June 2016

- Carried out chemical reactions and imaged the results in order to determine the best concentration and flow rate needed in order to achieve optimal growth and etching in Polydimethylsiloxane polymers

WORK EXPERIENCE

UC Irvine, Office of Information and Technology

Senior Help Desk Consultant

Irvine, California

January 2015 – Present

- Developed SlackBot, a chat bot residing on the communication platform Slack used by 20+ consultants daily to effectively search customer data and troubleshoot issues ranging from account lock-outs to network outages

AntiCancer, Inc.

Research Intern

San Diego, California

May 2016 – September 2016

- Analyzed the effect of vitamin C on the rate of tumor metastasis following invasive surgery after mice injection with human tumor cells to analyze variable protein expression during the differentiation process
- Cultured and prepared human cancer cells to prepare for mice injection and performed autopsies on surgical fatalities to examine the cause of death and minimize the rate of future surgical complications

INVOLVEMENT

Lestonnac Free Clinic

Student Volunteer

Orange County, California

December 2017 – Present

- Recorded patients' vitals and translated for Arabic-speaking patients to provide healthcare for low-income families to create a healthy community while gaining insight into the field of internal medicine

Senior Research Project, Department of Physical Medicine & Rehabilitation

UC Irvine, Undergraduate Research Opportunities Program

Irvine, California

January 2017 – Present

- Designed a prototype micro-kinetic sensor device to measure the breathing of rats to determine the respiration rate through diaphragm distention to predict the effect of anesthesia on rats undergoing surgery

LAB & PROGRAMMING SKILLS

Laboratory Skills: Cell Culture, Western Blotting, Immunoprecipitation, Suturing, Mice injections, Basic mice surgical Procedures, Cryostat Sectioning, Zeiss Fluorescence Microscope, Nikon Ti-E Inverted Microscope, Image Aquisition Pro

Programming Languages: Python, R, Javascript, HTML, CSS, C-Sharp, Visual Basic