Undergraduate Research Opening

Lab: UCLA Micro Systems Laboratories (http://ho.seas.ucla.edu/)
PI: Prof. Chih-Ming Ho

Research Topic:
**Big Data Analytics, Experimental Design and Implementation for Cancer Therapeutics**

Most drug resistant cancer types require multiple drugs to effectively terminate cancer cells from the patient’s body. Traditional single drug regimen will not work in these multi-drug-resistant cancer types. In this project, we will apply a multitude of engineering methods to find the best drug combinations for the treatment of triple-negative Breast Cancer (TNBC) and acute myeloid leukemia (AML).

What you will learn:
1. Hands-on lab work involving cell culturing and preparation of cancer drugs
2. High throughput liquid handling robotics
3. Big data analytics, database, MATLAB programming and design of experiments

Time span: 1 year (must be available from Oct 2013 to June 2014), 20 hours/week

Qualification:
1. Open to all UCLA undergraduate students. Students, who are experienced in biological experiment such as cell culture, are preferred.
2. Programming skill is preferred.
3. Understanding of topics in advanced mathematics is preferred.
4. Time and commitment to work in a hands-on lab (20 hours a week).
5. Excellent work ethic and willingness to learn.

How to apply:

Prepare the following information:
1. Name
2. Major, year, GPA
3. Briefly describe yourself
4. Resume
and send them to Hann Wang (hann@ucla.edu) with the title “Application to Undergraduate Research Position”.

Have questions about the research opportunity? Please contact:
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