

Doctoral Program in Chemical and Biological Sciences

ROTATION PROPOSAL FORM

Student Name: Shang-Fu Chen

Rotation Advisor: Andrew Su

Rotation Start Date: _____ Proposed Rotation End Date: _____

Lab Extension: CA only _____ Lab Mail Drop: CA only _____

The purpose of laboratory rotations is for students to become immersed in the lab environment, gaining exposure to techniques, the research programs, and the culture of the lab. The goal of rotations is to use the knowledge attained to select and formally join a lab that is the best fit scientifically and culturally for the student.

All students are required to complete at least one laboratory rotation. Please complete all of the proposal information and return this form to the Office of Graduate Studies (via email or in person) by **August 10** for the first rotation, or *within one week of each new rotation start date*.

In the section below, please provide 8-10 typed sentences that address the following: the problem to be studied (approach), goals, research methods that will be used, description of possible experiments, and ways that you will immerse yourself into the lab environment.

During this rotation, I will mainly participate in the development of GeneWiki project.

~~The basic premise is that Wikidata has lots of translations to other languages, and we (and others) have also loaded many ontologies. The natural extension is to use Wikidata as a unified backbone for translating ontologies to other languages. By incorporating the data from Disease Ontology database and Wikidata, we aim to provide an interactive platform which would facilitate users to search for the multilingual translations of desired target diseases from a continuously-updated, collaboratively-written, and community-reviewed database. Important methodology including API input/output, web ontology languages (OWL), and web programming are required and applied to the project to achieve the proposal. The important concept regarding relational database management system, data mining and online analytical processing will concretize the ecosystem of the biomedical toolkits. In Su lab, I would keep working with people from various study background and learn for data extraction/processing from an interdisciplinary perspective.~~

Student Signature: _____
Signature Date

By signing this form, I approve the project above and agree to have this student rotate in my lab. Furthermore, there are sufficient funds to take on this student if s/he decides to formally join my lab.

Advisor Signature: _____
Signature Date

Dean's Approval: _____
Signature Date