

BOT 199 Independent Study (2 Credits)

STUDENTS: Kailua High School

ADVISOR: Hongwei Li

TIME: Summer 2017

TITLE: Research experience in Ethnopharmacognosy and Plant Biotechnology: Medicinal Plants

COURSE DESCRIPTION:

- Introduction to fundamental principles and techniques in Ethnopharmacognosy and Plant Biotechnology.

COURSE OBJECTIVE:

- Understand fundamental concepts and principles of Ethnopharmacognosy and Plant Biotechnology.
- Develop the critical thinking and basic skills in scientific research.

RESOURCE MATERIALS

- <https://www.ncbi.nlm.nih.gov/pubmed/>
- *Ethnopharmacognosy Series V: Pharmaceutical and Nutraceutical Values of Vanda Miss Joaquim.* Ingelia White. 2016
- *Ethnopharmacology*, edited by Michael Heinrich and Anna K. Jager, 2015. Wiley-Blackwell.
- *Plant Biotechnology : Experience and Future Prospects*, edited by Agnes Ricroch, Surinder Chopra and Shelby Fleischer. 2014. Springer International Publishing.

REQUIRED ACTIVITIES / METHOD OF INSTRUCTION:

- BOT199 Introduction
- Group Study: Ethnopharmacognosy and Plant Biotechnology
- Group Presentations
- Field work in the Bioprocessing Medicinal Garden Complex
- Introduction of the Research Project.
- Laboratory Research
- Research Result Analysis and Discussion
- Field Trip/Workshop

METHOD OF GRADING:

Activity Participation	100 points
Presentation	100 points
Research Report	100 points
Overall Performance	100 points
<hr/>	
Total	400 points

A letter grade (A – F) will be assigned based upon the percentage of total points as follows:

- | | |
|--|--|
| A. 90% or above of the total possible points | B. 80-89% of the total possible points |
| C. 70-79% of the total possible points | D. 60-69% of the total possible points |
| F. Below 60% of total points | |