



Outcomes/reflections of student poster presentations at national and international scientific conferences

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Agripharmatech



Plant Biotechnology (Track 1) Ethnopharmacognosy (Track 2)

Program Objectives:

- Provide skilled workforce in plant biotechnology and plant-based product manufacturing through education, research/training
- Facilitate student transfer to higher degree institutions majoring in biosciences (plant/microbial biotechnology, plant molecular phylogenetics, bioinformatics, ethnobotany, horticulture, nutraceuticals, biomedical, green pharmacy)
- Promote agribusiness-bioprocessing entrepreneurship

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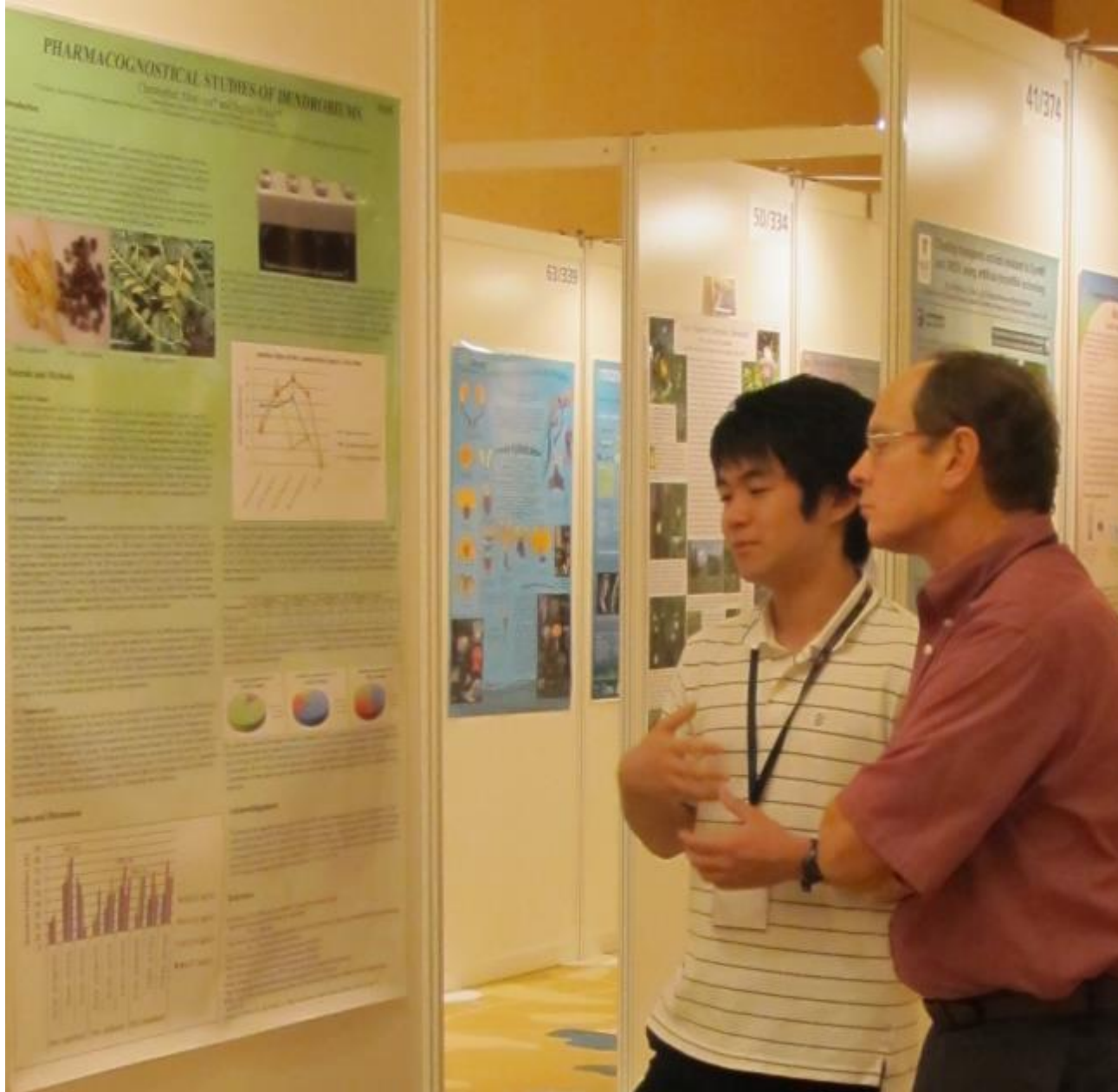
- CA in Agripharmatech was approved by the Board of Regents and offered in Spring 2012 (30 credits)
- Two specializations:
 - Ethnopharmacognosy
 - Plant Biotechnology
- One of the electives - BOT 199/299 (Independent Study/Research)
- Five BOT 199/299 students presented posters and a Power Point of their research and studies at national and international scientific conferences



Amanda Kimball (left) presented a poster “Engaging Plant Biotechnology Students in Their Learning Through Undergraduate Research and Extra-Curricular Activities”. NACTA/DOCE Conference, University of Alberta, Canada, June 2011



Donna Kuehu (right) presented a poster “**Enhancing Learning and Introducing Agripharmatech Program to Middle and High-School Students by Involving Botany Club Members as Student Ambassadors**”. NACTA/DOCE Conference, University of Wisconsin, River Falls, June 2012



Christopher Akatsuka (left) presented a poster “**Pharmacognostical Studies of Dendrobiums**”. The 20th World Orchid Conference in Singapore, November, 2011

Clinical Study and Vitamin B Analysis of *Bidens pilosa* Against Oral Pathogens

Sean Dupuis and Ingelia White*

* Windward Community College



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IDEA Network
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Research Excellence

INBRE II

Hawaii State
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Education Partnership

Sean Dupuis presented a Power Point “**Clinical Study and Vitamin B Analysis of *Bidens pilosa* Against Oral Pathogens**”. SURI-INBRE II student presentation, JABSOM, Honolulu, April 5, 2012



Nyan Stillwell (right) presented a poster “**Micropropagation of Putative Transgenic Orchid (*Brassolaeliocattleya* Raye Holmes ‘Mendenhall’) to Confer Resistance to Orchid *Cymbidium* Mosaic Virus**”. The 4th Scientific Conference on Andean Orchids, Guayaquil, Ecuador, November 2012



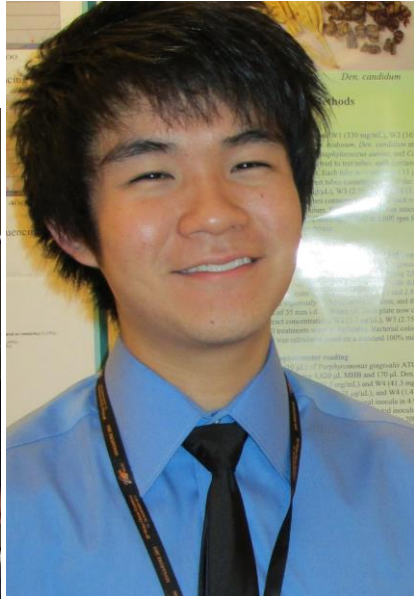
Christopher Akatsuka with prospective research mentors Dr. Mark Chase and Dr. Mike Fay from Kew Gardens - UK, Dr. Ken Cameron from Univ. of Wisconsin - Madison and Dr. Kiat W. Tan from Singapore Botanical Gardens, 2011



Nyan Stillwell with prospective research mentors and colleagues
From Brazil, USA, Netherlands, UK, Czech Republic, Japan,
Australia and Ecuador, 2012

Reflections:

- Amanda Kimball: I learned different techniques and strategies of teaching/learning and shared information with other professionals. This helped maintain my interest in plant science
- Donna Kuehu: I am interested in the efforts made toward globalizing learning opportunities abroad to foreign countries
- Christopher Akatsuka: I gained scientific knowledge, listening to valuable suggestions offered by well known research scientists, and made connections with friends and potential mentors. It spurred me to get back in the laboratory and do some more research projects
- Nyan Stillwell: I gained a lot of insight into the various disciplines of orchid research, conversed with the best orchid scientists from around the globe and acted as an ambassador for my school, all while being an undergraduate student
- Sean Dupuis: I gained practical biomedical research experience needed by undergraduate students





- These 5 students received CA in Agripharmatech in the May 2013 Commencement
- Abstracts of their presentations were published in conference Proceedings
- Gained oral communication skills and built academic connections with prospective mentors and other students around the globe
- Deepened their academic interest in science
- Graduates transferred to higher degree institutions, majoring in Molecular Biosciences and Bioengineering, Natural Resources and Environmental Management, Ethnobotany and Neuroscience