

2014 Hawaii ASM Dinner and Lecture At the Ko'olau Conference Center in Kaneohe On October 21st, 2014

“MALDI-TOF Mass Spectrometry for Microbial Identification”

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Department of Laboratory Medicine

NIH Clinical Center

Lecture Description

Matrix-assisted laser desorption/ionization time of flight mass spectrometry (MALDI-TOF MS) is a powerful tool for the rapid and highly accurate identification of clinical pathogens. Bacterial and yeast identification, as well as rapid identification directly from blood cultures, are now part of routine practice in some clinical laboratories. At NIH, a simple, fast mold extraction procedure was developed and a highly stringent, comprehensive mold database developed. Investigations are underway to expand the use of MALDI-TOF into new areas such as resistance testing, typing, and improved identification from direct specimens.

Lecturer's Biographical Sketch

Dr. Frank is a board-certified Clinical Pathologist, with twelve years experience as a clinical microbiologist and five years of experience as Director of Clinical Microbiology & Immunology Laboratories. She served as Director of the Lab Service Center and Phlebotomy, and as an Associate Director of a Pathology Residency Program. Dr. Frank serves on the Resident In-Service Exam Committee of the American Society of Clinical Pathology, has served on the executive council of the Academy of Clinical Laboratory Physicians and Scientists, and has been the Director of an ACGME-accredited Clinical Microbiology Fellowship. She has served as a consultant for medical student education and clinical algorithms for bacterial antibiotic resistance testing in the laboratories of two hospitals in China as part of the Wuhan Medical Education Reform Project. She is involved in both translational and basic science projects. Translational projects include an evaluation of MALDI-TOF identification of microorganisms and molecular methods for viral detection in transplant patients. The basic science project involves the investigation of the mechanism of lung injury due to *Staphylococcus aureus* alpha-hemolysin using a murine model of pneumonia. She joined the Department of Laboratory Medicine in the Clinical Center at NIH in 2012.

Fall 2014 Meeting Agenda and Map

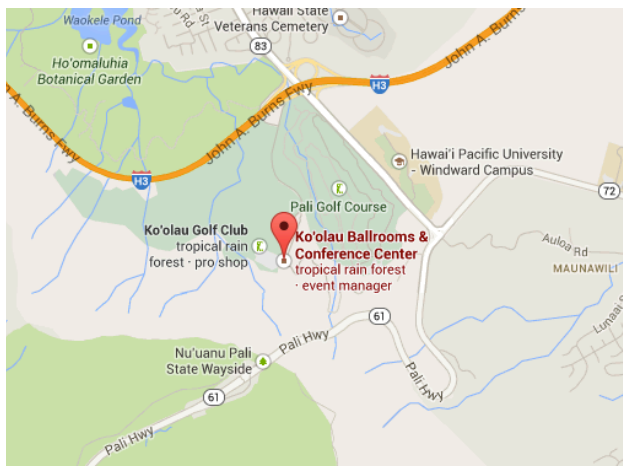
Tentative Agenda

Arrival: 6:00p - 6:30p

Dinner: 6:30p - 7:30p

Lecture: 7:45p - 8:45p

Business Meeting: 8:45p - 9:00p



Ko'olau Conference Center

45-550 Kionaole Rd.

Kaneohe, HI 96744

(808) 954-7000

Menu

Artichoke Hearts Marinated with Roasted
Button Mushrooms and Tossed with
Fresh Spinach

Snow Peas, Baby Corn and Grilled
Eggplant with Red and Green Bell
Peppers, Tossed with a Hoi Sin Dressing

Vegetable Rotini Tossed with Fresh
Vegetables and Basil Vinaigrette

Teriyaki Steak Marinated and Grilled with
a Shoyu Ginger Sauce

Vegetarian Lasagna – Grilled Vegetables,
Ricotta Cheese, Italian Herbed Tofu and
Pasta

Glazed Sweet Potatoes

Ko'olau Signature Bread Pudding

Assorted Desserts

Coffee & Iced Tea