POST-DOCTORAL POSITION AVAILABLE
California Animal Health and Food Safety Laboratory Systems
UC Davis

Rapid Microbe Detection and Sub-typing

A Postdoctoral position is available immediately at the UC Davis, California Animal Health and Food Safety Laboratory System (CAHFS) to develop a new system for bacterial detection and sub-typing as part of a highly collaborative project between industry and academia. The project will use simplex/multiplex PCR combined with mass spectrometry. The incumbent must be proficient in bacterial pathogen physiology, genetics, and advanced PCR protocols. We are seeking an enthusiastic person with strong oral and written communication skills. The ability to run single quadrupole mass spectrometers with advanced HPLC systems is desirable. Familiarity in analyzing large data sets from multiple data sources is highly desirable. Demonstrated ability to work independently within a collaborative group is required. Multivariate statistics is helpful, but statistical fundamentals are required.

Responsibilities
The incumbent will develop an innovative technique that combines gene detection and mass spectrometry to identify and subtype pathogenic bacteria. Knowledge of enteric pathogenic bacterial growth and physiology is essential. DNA/RNA isolation is required from complex sample types. PCR primer design for advanced protocols is essential. The laboratory is well-equipped with mass spectrometers (Single Quadrupole LC/MS; HPLC, Triple Quadrupole LC/MS) and an array of related instrumentation.

Requirements
Ph.D. with a strong background in genomics research and experience with top-down mass spectrometric techniques and experience with Agilent’s MassHunter software system is desirable. Skills should include expertise with the aforementioned instrumentation, and manipulation and use of bioinformatic tools. A proven track record of critical thinking, innovative problem solving, and publication is essential.

Please send a curriculum vitae, letter of interest, and names and addresses (including e-mail) for three references to Sharon Hein (slhein@ucdavis.edu).

Contact:
Hailu Kinde, DVM, MPVM
Interim Director
California Animal Health and Food Safety Laboratory System
School of Veterinary Medicine
University of California, Davis
(530) 752-8709
hkinde@ucdavis.edu
http://www.cahfs.ucdavis.edu/