POST-DOCTORAL POSITION AVAILABLE

Genomics of microbial stress physiology and metabolism

A postdoctoral position is available immediately to conduct laboratory investigations that define the microbial response and the metabolomics metabolism during to nutrient and abiotic stress. Molecular high throughput tools will be used to define the metabolic response to abiotic and biotic stress to define specific mechanisms that lead to the specific target metabolites important in stress response and survival.

Knowledge of analytical chemistry and microbial genomics is fundamental for success in this position. Using fermentation strategies based on the genome-informed metabolism the researcher will apply molecular microbiological techniques and high-resolution analytical chemistry analyses to monitor changes induced by biotic and abiotic stress and the metabolic output to accumulate specific metabolic end products.

Previous experience in microbial physiology, molecular microbiology (gene expression, qPCR, multiplexed PCR, gene regulation, genome structure, cloning), fermentation, and metabolomics (MS- or NMR-based) is essential. Use of bioinformatics (web-based analysis, scripting, statistics) associated with multi-dimensional data sets is highly desirable. Knowledge of amino acid metabolism and genome sequencing is an advantage.

They will collaborate closely with colleagues in analytical chemistry, as well as international colleagues. Demonstrated ability to work independently, maintain a motivated work ethic, and a written and oral communication abilities is essential for this highly collaborative position.

Please send a cover letter, curriculum vitae, a 2-page scientific goals document, along with names and addresses (including e-mail) of three references to Dr. Bart C. Weimer (bcweimer@ucdavis.edu).

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