POST-DOCTORAL POSITION AVAILABLE

DNA metabolism and modification

A postdoctoral position is available immediately to conduct laboratory investigations to study the microbial response to nutrient stress DNA/RNA metabolism and modification. Molecular high throughput tools will be used to define the metabolic response to sulfur stress to define specific mechanisms that lead to DNA/RNA modification that epigenetic regulation.

Knowledge of analytical chemistry and microbial genomics is fundamental for this position. Using metabolic strategies based on the genome-informed sulfur metabolism the researcher will apply molecular microbiological techniques and high-resolution analytical chemistry analyses to monitor nucleic acid structural changes and their role in epigenetic regulation of transcription and translation. Microbes are the model of choice; however, exploration of eukaryotic mechanisms may follow.

Previous experience in microbial physiology, molecular microbiology (gene expression, qPCR, multiplexed PCR, gene regulation, genome structure, cloning), sulfur metabolism, 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 sulfur and phosphate chemistry and genome sequencing is an advantage.

This is a highly collaborative position with colleagues in analytical chemistry. 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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