



University of California Davis

Post-doctoral Bioinformatics position in Fungal Genomics and Transcriptomics

Department of Plant Pathology,
University of California Davis

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BACKGROUND

The Stergiopoulos lab at the Department of Plant Pathology at the University of California Davis is seeking for a highly skilled and motivated post-doc in the field of fungal genomics and transcriptomics. The lab studies the molecular mechanisms of fungal pathogenesis on plants with an emphasis on characterizing computationally and by functional analyses critical molecular and cellular functions required for virulence. As part of our studies we use a systems-level approach that integrates comparative genomics, genome-wide transcriptome profiling, targeted proteomics, and functional analysis of selective gene candidates to study the mechanisms that control gene expression and transcriptome diversity of fungal virulence associated genes.

JOB DESCRIPTION

The successful candidate will work on sequencing using cutting-edge next-generation sequencing technologies and assembling at the chromosome level the genomes of important fungal pathogens of agronomic importance as well as mining these genomes for candidate pathogenicity genes. The candidate is also expected to analyze and mine dual RNAseq data of compatible plant-pathogen interactions that are already available in the lab. The position will become available in January 2019 and is initially for one year, renewable for a second year upon satisfactory performance. Salary is based on experience and qualifications according to UC Davis pay-scales. UC Davis provides a highly vibrant intellectual atmosphere, a pleasant college environment and career development activities specifically designed for post-doctoral scholars.

EXPERIENCE

Highly motivated candidates with an interest in applying cutting-edge next-generation sequencing-based technologies to host-microbe interactions research are encouraged to apply. Ideal candidates should have received recently a Ph.D. in bioinformatics, computational biology or related fields. A strong record of scientific accomplishment by peer-reviewed publications as well as experience in analyzing high-throughput genomics and transcriptomics data is a plus for this position. Candidates should also be proficient in at least one of the common programming languages used in bioinformatics (C, C++, Java etc.) and have excellent verbal and written communication skills.

APPLICATION

Interested candidates should send to Prof. Ioannis Stergiopoulos (istergiopoulos@ucdavis.edu) a single pdf file that includes a cover letter, their full CV, a statement of research interests, and contact information of three references.

REFERENCE

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