University of California Davis

Post-doctoral fellow position In Molecular Plant-Microbe Interactions

Department of Plant Pathology, University of California Davis

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http://plantpathology.ucdavis.edu/faculty/

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-doctoral fellow in the field of Molecular Plant-Microbe Interactions. The lab studies the molecular mechanisms of fungal pathogenesis on plants with an emphasis on the biochemical and functional characterization of fungal effector proteins and other virulence factors. For our studies, we use a systems-level approach that integrates comparative genomics, transcriptomics, mass spectrometry-based targeted proteomics, and biochemistry, to identify and mechanistically characterize selective virulence and pathogenicity factors in fungi.

JOB DESCRIPTION

The post-doctoral candidate will be drawn from the fields of molecular biology, biochemistry, molecular plant-microbe interactions, or related disciplines and will mainly focus on using quantitative LC-MS/MS based methods and targeted proteomic approaches to identify and monitor during an infection cycle isoforms of alternatively spliced proteins from the tomato pathogen *Cladosporium fulvum*. The successful candidate is further expected to lead the functional and biochemical characterization of effector and other virulence proteins from *C. fulvum* that have been already identified in the lab or that will be identified in the candidate's studies. To achieve some of the project's goals, the candidate will work closely with protein biochemists at the UC Davis Proteomics Core (https://proteomics.ucdavis.edu/), which offers state-of-the art facilities in protein identification and profiling. The position 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 using cutting-edge proteomic and biochemistry approaches to the study of host-microbe interactions are encouraged to apply. Ideal candidates should have received recently a Ph.D. in plant biology, biochemistry, molecular biology, or related disciplines. Experience with proteomics and plant molecular biology techniques is a must for this position. A strong record of scientific accomplishment by peer-reviewed publications, demonstrated ability to conduct experiments independently, and solid verbal and written communication skills are also a requirement.

APPLICATION

Interested candidates should send by December 20th 2019 a single pdf file to Prof. Ioannis Stergiopoulos (istergiopoulos@ucdavis.edu) that includes (i) a brief cover letter explaining their interest for this position, (ii) their full CV, (iii) a brief statement of research interests and future career goals (one page max; can be combined with the cover letter), and (iv) contact information of three references. The position will be available in early 2020 and will remain open until filled.