



## University of California Davis

### Post-doctoral position in Plant- Microbe Interactions

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University of California Davis

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#### BACKGROUND

The Coaker lab at the Department of Plant Pathology at the University of California Davis, is recruiting two motivated post-doctoral scientists with expertise in Molecular Plant-Microbe Interactions. The lab investigates the interaction between bacterial pathogens and plants with a focus on plant immune signaling. Previous lab members have obtained permanent positions in industry, government, and academia. We are committed to fostering scientific excellence in a collaborative environment with strong scientific mentoring.

#### POSITION DESCRIPTION

We are currently hiring for two positions: (1) kinase-mediated immune signaling using the model plant *Arabidopsis* and (2) the importance of pattern recognition receptors for controlling bacterial vector-borne disease. Both projects are supported by multi-year federal grants. The first project will investigate the importance of specific kinases and their plant substrates in regulating defense amplitude as well as investigate heterogeneity in leaf responses using single cell RNAseq in *Arabidopsis*. The second project will investigate MAMP perception in diverse citrus genotypes, investigate candidate citrus MAMP receptors, and evaluate the ability of receptor stacking to inhibit Huanglongbing and Zebra Chip diseases associated with *Ca. Liberibacter* species. The candidate will work closely with collaborators within and outside UC Davis. To achieve some of the project's goals, candidates will collaborate with protein biochemists at the UC Davis Proteomics Core, which offers state-of-the art facilities in protein identification and profiling. UC Davis provides a vibrant intellectual atmosphere, a pleasant college environment, and career development activities specifically designed for post-doctoral scholars. The position is initially for one year and renewable upon satisfactory performance. Salary is based on experience according to UC Davis pay scales (<https://grad.ucdavis.edu/postdoctoral/appointment-promotion>).

#### EXPERIENCE

Highly motivated candidates with an interest in using cutting-edge approaches to the study of host-microbe interactions are encouraged to apply. Candidates should have recently received a Ph.D. in plant biology, biochemistry, molecular biology, or related disciplines. Experience with plant molecular biology techniques, plant-microbe interactions, and protein biochemistry is required. A strong record of scientific accomplishment including first author peer-reviewed publications, demonstrated ability to conduct experiments independently, and solid verbal and written communication skills are also required.

#### APPLICATION

Candidates should send a single pdf file to Professor Gitta Coaker ([glcoaker@ucdavis.edu](mailto:glcoaker@ucdavis.edu)) by April 1<sup>st</sup> 2020. The application should include a full CV, contact information for three references, and a brief statement of research interests and future career goals (one page maximum). Please include "Postdoctoral Application\_Lastname" as the e-mail title. Positions are available in May-June 2020 and will remain open until filled.