

Three Postdoctoral positions available in the Ronald Laboratory at the University of California, Davis

We have recently identified and characterized a microbially derived tyrosine sulfated peptide that modulates host immunity and root development in rice, a genetically well-characterized crop that represents monocotyledonous species, and Arabidopsis, a representative dicot.

Two of the successful candidates will characterize rice mutants compromised in recognition and response to this peptide, identify amino acid residues regulating receptor/ligand binding, engineer immune receptors with novel specificities and determine the biological function of this peptide in the infection process (see Science Advances, 2015, Vol. 1, no. 6, e1500245 2015; <http://biorxiv.org/content/early/2017/03/14/116897> and <http://biorxiv.org/content/early/2017/02/24/111237> for recent work on this topic).

A third position is available to use a chemical genetics approach to identify genes that modulate root traits and drought tolerance in rice and tomato (see <http://www.nature.com/nbt/journal/v34/n1/full/nbt.3374.html>)

The successful candidates must have a Ph.D., a strong record of accomplishment in plant or microbial genetics, molecular biology or protein biochemistry as well as the ability to design and conduct experiments independently; experience in supervising and training students; and excellent communication and writing skills.

There are abundant intellectual and training opportunities for postdoctoral fellows in the Ronald lab and at UC Davis in all aspects of agricultural science, modern genomics, proteomics, crystallography and bioinformatics. In addition to the facilities available in the UC Davis Department of Plant Pathology and at the UC Davis Genome Center, the postdoctoral fellow will have access to a wide range of facilities, resources and world-class expertise at the Joint Bioenergy Institute and Lawrence Berkeley National Laboratory.

The salary is commensurate with experience. Benefits are included. The position is available for 1 year, renewable annually.

Interested individuals should submit a letter of interest, a curriculum vitae and three letters of reference before September 1, 2017 to Shannon Albers: snalbers@ucdavis.edu

For more information please see: <http://www.cropgeneticsinnovation.org/>