POSTDOCTORAL RESEARCH ASSOCIATE

MOLECULAR PLANT-NEMATODE INTERACTIONS

The Mitchum Lab seeks to hire a Postdoctoral Research Associate to carry out research in molecular plant-nematode interactions using a diverse array of approaches from single cell to whole organism (nematode and plant). These include standard molecular biology, biochemistry and plant nematology approaches, as well as ‘omics approaches, CRISPR genome editing techniques, and high-throughput plant phenotyping for nematode resistance. We seek to understand the molecular mechanisms underlying nematode parasitism of host plants and how plants resist infection by nematodes. The Mitchum Lab is part of the University of Georgia Department of Plant Pathology and Institute of Plant Breeding, Genetics, and Genomics, and a member of The Plant Center, which provides a vibrant community of plant researchers at UGA and frequent interactions with the broader plant community across campus.

Ph.D. degree in molecular biology/nematology, molecular plant-microbe interactions, plant molecular biology/genetics, plant development, biotechnology, biochemistry, or a related life sciences field within the past 4 years. Proficiency in DNA, RNA, and protein extraction; construct design and cloning; quantitative PCR and data analysis; RNAseq and analysis; use of statistic and bioinformatic tools; in situ hybridization methods; confocal microscopy; heterologous protein expression, protein purification and enzyme assays on purified proteins; Western blotting; CRISPR, plant transformation and tissue culture; crop and model systems desirable. Proficiency in written and spoken English. Proven publication record in peer-reviewed journals and ability to work independently and on an interdisciplinary team.

Salary: Commensurate with qualifications, experience, and prevailing salary scale.
Application deadline – until filled.

How to apply: https://www.ugajobsearch.com/postings/114722

For questions, please send an email to Melissa.Mitchum@uga.edu with a subject line of ‘Post-Doc’

https://plantpath.caes.uga.edu/people/faculty/melissa-mitchum.html

Lab website: https://site.caes.uga.edu/mitchumlab/

Proposed Hire Date: January 2020