

Post-doctoral Research Position at UNC Chapel Hill

A post-doctoral position in plant stem cell regulation is available in the Department of Biology at UNC Chapel Hill, with flexible starting times for 2020 preferably.

The federally funded project focuses on the characterization of new pathway components that regulate plant stem cell maintenance in the shoot and/or on the biochemical basis of receptor signaling. Previous studies from our lab and others have demonstrated that receptor kinases from the CLAVATA1 subclade and their CLV3 family peptide ligands function in Arabidopsis to control stem cell regulation. We seek to explore the function of these receptors and understand how they signal and control stem cell maintenance. The main aims of this work are to complete ongoing novel genetic screens aimed at dissecting the CLV signaling pathway, determine receptor function biochemically using new conditional systems we have developed and interactors, and to study the downstream outputs and signaling pathways. The successful post-doc applicant will use a combination of imaging, biochemistry, genetics, genome editing, molecular and genomic approaches in model or crop systems. These studies will provide novel insights into the role these signaling networks and could help alter crop production.

The candidate should be familiar with standard molecular techniques and have an interest in signaling pathways regulating plant growth. Previous experience with Arabidopsis and plant biochemistry or transcriptomics would be ideal. This project will be performed in the Department of Biology at the University of North Carolina at Chapel Hill in the new state-of-the-art Genome Sciences Building under the supervision of Dr. Zack Nimchuk. Chapel Hill is a pleasant college town located near Research Triangle Park, home to many biotechnology companies, including multiple companies focusing on research in plant biotechnology, and to Duke and NC State Universities.

Applications should be submitted in electronic form, and should include a CV, a short description of previous research and current research interests, and a list of references. The candidate should ideally have obtained their PhD within the last 3 years in Biology, Genetics, Biochemistry or a related field. A strong record of publication will be an important criterion for screening applications. The position has an initial appointment period of one year but can be extended for future years. UNC and the Nimchuk lab are committed to inclusion in science and candidates from diverse backgrounds are welcome and encouraged to apply.

To apply for this position please use the following link:

<https://unc.peopleadmin.com/postings/181856>.

Any inquiries should include the subject line "Postdoctoral Position" and should be sent to:

Dr. Zachary Nimchuk
zackn@email.unc.edu

For more background information please see:

<http://www.ncbi.nlm.nih.gov/pubmed/?term=nimchuk+arabidopsis>

<https://nimchuklabunc.weebly.com/>