

Postdoc Position in Plant Transcriptomics & Metabolomics

Description

Job Description – The laboratory of Dr. Ana Alonso (<https://bdi.unt.edu/ana-alonso>) in the BioDiscovery Institute at the University of North Texas, a Research 1 (R1) Carnegie classification enrolling over 47,000 students, is looking for a highly motivated Postdoctoral Research Associate in the fields of Plant Metabolomics and Transcriptomics. The project aims to reconstitute complete metabolic pathways for pharmaceutical compounds produced by fungi within the plant host *Nicotiana benthamiana*. This first-of-its-kind study will establish a new concept for pharmaceutical production of valuable fungal products and may ultimately lead to medicines that can be delivered in plant seeds, eliminating downstream processing. The postdoctoral research associate will work in collaboration with a team of 4-5 additional members. The successful candidate will perform studies to determine the effects on metabolic flux, perturbations of other metabolic pathways, and whether the presence of foreign enzymes is leading to toxic effects in fundamental plant processes or inducing internal defenses. More specifically, the postdoctoral researcher will conduct untargeted metabolomic and transcriptomic analyses on *N. benthamiana* leaves after transient expression of fungal megasynthases. In addition, the successful candidate will assist in training students, and preparing manuscripts/presentations. This work is part of a large collaborative project funded by the Keck Foundation for two additional years. Good social skills and the ability to work within a team are critical. For your application, you will have to submit: 1) Cover Letter; 2) Curriculum Vitae; 3) Statement of Research Interests; 4) List of Names and Email for 3 Professional References in the following website: <https://jobs.untssystem.edu/postings/75653>. In the meantime, if you have questions or want further information, feel free to contact me (Anapaula.Alonso@unt.edu).

Responsibilities – The postdoctoral research associate will work in collaboration with a team of 4-5 additional members. The successful candidate will perform studies to determine the effects on metabolic flux, perturbations of other metabolic pathways, and whether the presence of foreign enzymes is leading to toxic effects in fundamental plant processes or inducing internal defenses. More specifically, the postdoctoral researcher will conduct untargeted metabolomic and transcriptomic analyses on *N. benthamiana* leaves after transient expression of fungal megasynthases. In addition, the successful candidate will assist in training students, and preparing manuscripts/presentations. This work is part of a large collaborative project funded by the Keck Foundation for two additional years. Good social skills and the ability to work within a team are critical.

Qualifications – Minimum Qualifications:- A doctorate in plant science, biochemistry, biology, or related field.- Prior experience with at least two of the following approaches: mass spectrometry based metabolomics (LC-

Hiring organization

BioDiscovery Institute at the University of North Texas; <https://jobs.untssystem.edu/postings/75653>

Date posted

September 25, 2023

MS/MS), RNA-Seq, and/or Multivariate Analyses is required.- Peer-reviewed publications in the field of metabolomics and/or transcriptomics. Preferred Qualifications:- Prior experience working with plants is highly desired.- Programming skills are valuable.- scientific writing and communication skills are highly desired.- Excellent interpersonal and teamwork skills

Contact – Ana Paula Alonso, Anapaula.Alonso@unt.edu

Post End Date – 10/25/3023

Contacts

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