PhD Student position investigating the dynamics of Arabidopsis transcriptional regulatory network.

A PhD student position is available in the Shahid Mukhtar’s lab in the Department of Biology at the University of Alabama at Birmingham, AL, USA
https://cas.uab.edu/smukhtarlab/
http://www.uab.edu/cas/biology/smukhtar

Network biology, a branch of systems biology, translates the complexities of molecular interactions into a biological message. Using network biology, the incumbent will address the following questions: a) What are the global landscapes of dynamic changes that occur across multiple levels in the hierarchy of cellular organization? b) How do plants rewire the flow of information in biological networks during multiple phases of infection with virulent and avirulent pathogens? and c) How are functional modules organized in transcriptional immune regulatory networks, an area of plant immunity that is largely unexplored? For additional information, please read our recent publications:

1- Mukhtar et al. Science, 2011
2- Dreze et al, Science 2011
3- Weßling et al. Cell Host & Microbe, 2014
4- Garbutt et al, Frontiers in Plant Science, 2014
5- Tully et al, BMC Genomics, 2014

The position will start in the spring semester 2017. The successful candidate will be involved in an NSF-funded project addressing dynamic transcriptional regulatory network. The position will involve both experimental and computational skills for the generation and analysis of NextGen datasets (RNA-seq and Ribo-Seq). The candidate will have the opportunity to learn skills in R, Perl, Python or other programming languages.

The successful candidate will be very well organized, dedicated, have excellent written, oral, and interpersonal communications skills and the ability to work both independently and collaboratively with co-workers.

Required qualifications:

-A BS or MS in Biology, Molecular Biology, Computer Science, Bioinformatics or the equivalent

Desired qualifications:

-previous experience with Arabidopsis molecular biology,
-Knowledge of computer programming languages
-RNA-seq analyses
For information about the graduate program in the Department of Biology at UAB, and how to apply, please see [https://www.uab.edu/cas/biology/graduate-program](https://www.uab.edu/cas/biology/graduate-program)

For specific information about the position, please contact Dr. Shahid Mukhtar at smukhtar (at) uab.edu.

The University of Alabama at Birmingham is a major research university in the South-East that is particularly renowned for its programs in biomedical and natural sciences. The urban campus houses over 2,000 faculty and 16,000 staff with a student population exceeding 18,000. UAB is classified as one of 115 U.S. Highest Research Activity (R1) Universities by the Carnegie Foundation. Birmingham is the largest city in the state of Alabama, with metro population exceeding 1 million, and is home to high-quality medical facilities, many fine restaurants, a historic theater, a symphony orchestra, an opera, a ballet, and nationally known events such as the Sidewalk Moving Picture Festival. The Birmingham metropolitan area has consistently been rated as one of America's best places to work and earn a living based on the area's competitive salary rates and relatively low living expenses.

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