Postdoctoral position in Systems Biology of Plant-Pathogens Interactions.

A postdoctoral 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?

The successful applicant will have skills and experience in Genomics and Bioinformatics. The position will require both experimental and computational skills for the generation and analysis of NextGen datasets (RNA-seq and Ribo-Seq). Skills in R, Perl, Python or other programming languages are strongly preferred. Further duties include assisting in the supervision of graduate and undergraduate students, development of appropriate experiments, collection and analysis of data, interpretation of results, formulation of conclusions, and documentation in a final written form.

Required qualifications:

- A Ph.D. in biology, genetics, molecular biology, Bioinformatics, plant pathology or the equivalent,

- a track record of research productivity that includes first-author publication(s) in the areas of genomics and bioinformatics in peer-reviewed journals,

- previous experience with plant molecular biology.

- Knowledge of computer programming languages
Desired qualifications:

- RNA-seq analyses
- Network Biology-based analyses

APPLICATION: Applicants should submit a letter of application addressing all of the above required and preferred qualifications, current curriculum vitae including a list of publications, and the names and e-mail addresses of three references as one pdf file to:

Dr. Shahid Mukhtar
Department of Biology, University of Alabama at Birmingham,
1720 2nd Avenue S, CH 369
Birmingham, AL 35294-1170 USA

or electronically by email to: smukhtar (at) uab.edu (preferred).

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 and is well known for its excellent training and support of postdoctoral scholars, ranking at #1 nationwide as the “Best Place to Work as a Postdoc” among academic institutions (The Scientist, April 2013). 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.

UAB is an Equal Opportunity/Affirmative Action Employer committed to fostering a diverse, equitable and family-friendly environment in which all faculty and staff can excel and achieve work-life balance irrespective of ethnicity, gender, faith, gender identity and expression as well as sexual orientation.