Two Postdoctoral Researcher Positions

I. Postdoctoral Researcher Position in Fungus-Plant Interactions

Responsibilities:

We are looking for an enthusiastic and dedicated person to study fungus-Brachypodium interactions. Candidates will focus on discerning how fungal effectors manipulate host immune response and identify novel resources of resistance for translational research.

Specific Job Duties include:

- Identify fungal (i.e. Rhizoctonia and Sclerotinia) effector targets in host plants (10%).
- Investigate the mode of action of effectors (20%).
- Study the function of target proteins (25%).
- Provide tools for monitoring pathogen populations for virulence (10%).
- Identify and characterize novel resistance genes and use them in breeding programs (20%).
- Handle other related research projects (15%).

Required qualifications:

- PhD degree in genetics, molecular biology or related area.
- Preferred experience and techniques in forward and reverse genetic screens, protein-protein interactions, omics and confocal microscopy.
- Excellent oral, written and interpersonal communication skills.
- Ability to work on multiple projects in parallel.
II. Postdoctoral Researcher Position in Oomycete-Plant Interactions

Responsibilities:

We are seeking a highly motivated scientist to study the molecular basis of oomycete-plant interactions. Candidates will explore previously identified oomycete effector targets and aim to elucidate the molecular basis of oomycete-plant interactions.

Specific Job Duties include:

- Structural and functional analysis of effector proteins (15%).
- Identify oomycete (i.e. Phytophthora) effector targets in host plants (15%).
- Investigate how effectors suppress or manipulate host defense response (30%).
- Elucidate the molecular mechanism by which how effectors are recognized (20%).
- Get involved in other related research projects (20%).

Required qualifications:

- PhD degree in molecular biology or related area.
- Preferred experience and techniques in protein-protein interactions, Chromatin-IP, omics and confocal microscopy.
- Excellent oral, written and interpersonal communication skills.
- Ability to work on multiple projects in parallel.

Application Guidelines:

Review of applicants will begin immediately until the position is filled. Please send by e-mail a current copy of your CV, including names and contact information for three personal references, and a cover letter describing your interests.

Location:

Texas A&M AgriLife Research Center at Dallas is part of the Texas A&M University system. The Dallas area boasts a low cost of living with diverse neighborhoods and great schools. The area has world class quality of life options, with more than 175 museums and art galleries, premier performance halls, numerous parks, lakes, and seven professional sport franchises.

Contact info:

Junqi Song
Texas A&M AgriLife Research Center
Department of Plant Pathology and Microbiology
17360 Coit Road
Dallas, TX 75252
Phone: 972-952-9244
Email: junqi.song@tamu.edu