Post Doctoral Scientist

At the Faculty of Mathematics and Natural Sciences of the Heinrich Heine University of Düsseldorf, the Institute for Molecular Physiology will soon have a position as one Post Doctoral Scientist / employee (100%, EC 13 TV-L)

We are seeking a highly motivated postdoctoral associate to conduct research aimed at understanding and utilizing membrane transporter to address agricultural problems. The group is working on membrane transport processes related to crop yield, especially the transport of sugars across the plasma membrane. We found that pathogens induce transporters to gain access to nutrients. The goal of this project is to block access using innovative genome editing techniques. This project, funded by the Bill & Melinda Gates Foundation, is being conducted at the Max Planck Institute for Plant Breeding Research in Cologne, where the workplace is located.

Specific Responsibilities: The successful candidate will be responsible for the following activities:

- Molecular Biology
  - DNA, RNA, Protein isolation
  - PCR, RT-PCR, Western blotting
  - Vector construction
- Pathogen experiments
  - Bacterial blight and/or Blast infection experiments in rice
  - Scoring the disease symptom

Our requirements:
- PhD in biology and doctoral studies
- Experience in rice and/or Xanthomonas oryzae pv. oryzae
- Experience in modern molecular biological procedures
- Excellent English knowledge

Your contact person is Dr. Joon-Seob Eom: eom@mpipz.mpg.de.
Your application documents; curriculum vitae, 3 references