

THE SAINSBURY LABORATORY

Postdoctoral Position in Pathogen-induced Receptor Trafficking

In our attempts to understand the full nature of the interactions that occur between a potential pathogen and its host, we are elucidating the transport processes that are engaged by the plant's immune system. Our studies have revealed that endosomal transport is required for plant defence and is important for stomatal immunity (Spallek et al. 2013). To identify mechanistic and functional elements of transport-regulated immunity, we focus on how the pattern recognition receptors (PRRs), the primary sensors of the plant's immune system, are transported through the cell. We have comprehensively dissected the trafficking of FLS2, which has led us to several novel findings including the activation-dependent endosomal transport and sorting of the FLS2 receptor (Beck et al. 2012; Spallek et al. 2013). The postdoctoral researcher will be studying the regulation of FLS2 trafficking by biochemical and molecular approaches combined with confocal imaging.

The Sainsbury Laboratory is a charitable company of ~70 research scientists and support staff and a world leader in plant science. We are based on the Norwich Research Park, funded by the Gatsby Charitable Foundation, and closely linked to University of East Anglia and the John Innes Centre.

For more information visit www.tsl.ac.uk

The group of Silke Robatzek, currently located at the Sainsbury Laboratory, Norwich, and is looking for a postdoctoral researcher starting in January 2015. The postdoctoral researcher is expected to have a strong background in modern cell biology and biochemistry. Experience in plant-microbe interactions is a benefit. A suitable background is PhD in biochemistry and cell biology. For further information please contact Dr. Silke Robatzek (robatzek@TSL.ac.uk). This is a 12 months position initially, with the possibility of extension.

Salary will be within the UEA Research & Analogous staff Grade 7, at between £30,728 and £36,661 per annum and the appointment level will reflect the qualifications, skills, knowledge and achievements of the successful candidate.

Applicants should provide a CV, including the names and contact details of two referees, and a covering letter addressing the selection criteria. Please send formal applications, quoting the reference number below, either by e-mail to HR@tsl.ac.uk or by post to Kim Blanchflower, HR Manager, The Sainsbury Laboratory, The John Innes Centre, Norwich Research Park, Colney, Norwich NR4 7UH, UK.

Ref NUMBER SR004/2014

Closing Date 15 Dec 2014