Post-doctoral position (Phosphate transport and sensing)

Description:

A postdoctoral position is available to join a project focused on phosphate transport, sensing and signaling in root cells during AM symbiosis. During symbiosis, phosphate is transported directly into the root cortical cells by transporters located on a newly constructed symbiotic membrane located between the plant and fungus. In M. truncatula two phosphate transporters, MtPT4 and MtPT8 are responsible for symbiotic phosphate transport and MtPT4 has the major role (1-3). New mtpt4 alleles support that hypothesis that MtPT4 has a role in sensing phosphate and candidate interacting proteins have been identified. The successful candidate will contribute to current research that aims to obtain a mechanistic understanding of phosphate transport, sensing and downstream signaling events in root cells during symbiosis.


To Apply: Applicants must have a Ph.D., a strong publication record and demonstrated expertise in molecular biology and/or protein biochemistry. Experience with any of the following is beneficial: membrane proteins, transporters, lipid analysis or advanced confocal microscopy techniques.

Applicants should submit a CV, the names of three references and a letter summarizing research interests and relevant experience to Maria J. Harrison, (mjh78@cornell.edu.)

The Boyce Thompson Institute is a non-profit research institute affiliated with and located on the central Cornell University campus in Ithaca, New York.
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