PhD Position in Biology at the
University of Kaiserslautern (Germany)

Connection of vacuole and cytoskeleton

The plant hormone auxin directly alters the organization of the cytoskeleton as well as the morphology of the vacuole. It has been shown that auxin-induced changes of the vacuole depend on the integrity of the cytoskeleton (Scheuring et al., 2016; PNAS), but only little is known about their relation. This project aims at the understanding of hormone-induced, reversible changes on the molecular level and how they contribute to plant growth and development. Putative adaptor proteins, connecting the cytoskeleton and the vacuole, will be characterized on three interconnected levels: (1) genetic function, (2) cell biology and (3) biochemical interactivity. The work will include microscopy, standard molecular/cell biological methods and plant work.

For our motivated and friendly team, we are currently seeking a PhD student with experience in confocal microscopy, plant biology or biochemistry. Please send your application with a short CV (either English or German) and the details of two referees to:

scheurin@rhrk.uni-kl.de

For further information please contact:

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