Research position

Phytochrome cytoplasmic signalling in *Physcomitrella* and *Arabidopsis*

A PhD position (E13 50%) is available initially for two years with the likelihood of extension for a further year for research into phytochrome signalling. Phytochromes are photoreceptor molecules with two stable ground states interconverted by red and far-red light. In plants they mediate light-dependent development, the largest environmental effect on morphogenesis known in nature. We have identified a phytochrome interaction likely to be at the heart of a cytoplasmic signalling system whose existence had long been suspected but whose nature was unknown [see Jaedicke et al. (2012) PNAS; Hughes (2013) Ann. Rev. Pl. Biol.]. We use fluorescence-based cell biological techniques, molecular genetics including genome editing as well as biochemical and biophysical methods for investigating this system.

For further details see:
www.uni-giessen.de/fbz/fb08/Inst/pflphys/pflaphygroups/ag-hughes/projects

Candidates should possess an appropriate Master's degree or equivalent, be interested in and ideally have experience of photobiology, plant molecular genetics or intracellular signalling. They should be fascinated by the notion of entering new scientific fields, developing new methods and making discoveries, be proficient in written and spoken English, and be able to work constructively within an interdisciplinary, multinational research team. Applications from women and disabled persons are especially welcome.

If you are interested, please contact me by e-mail including a tabular CV as well as a one-page description of how you might contribute to the project: Professor Jon Hughes, Plant Physiology, JLU Giessen, Germany (jon.hughes@uni-giessen.de). A formal application will be necessary later.

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