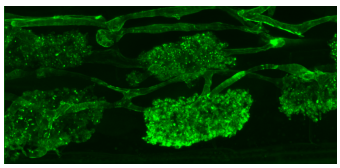
European Research Council



Opportunities for Talents

2 Postdoc Positions in transcriptional regulation of arbuscular mycorrhiza development

to work on the ERC project "Regulatory networks of plant cell rearrangement during symbiont accommodation – RECEIVE"

The positions are available immediately in the lab of Caroline Gutjahr at the Weihenstephan Campus of the Technical University in Freising, close to Munich. Positions (income level German TVL E13) are initially for 2 years with possibility for extension to 4.5 years

We are interested in understanding the molecular mechanisms of arbuscular mycorrhiza development and function, using a combination of molecular, genetics, cell biological and biochemical methods. We mainly work with the model legume *Lotus japonicus*, but also with Arabidopsis, *Nicotiana benthamiana*, tomato, maize and barley. Our lab is equipped with state of the art instrumentation for molecular, biochemical and cell biological research and we offer a dynamic, international and friendly research ambiance. There are multiple opportunities for interaction at the Weihenstephan Campus (e. g. a collaborative research center for plant science: http://sfb924.wzw.tum.de/index.php?id=3) and there are core facilities for next generation sequencing, proteomics, metabolomics and high-end confocal imaging.
For more information visit our lab webpage: http://genetik.wzw.tum.de/index.php?id=6

The aim of the project is to investigate transcriptional networks regulating the step-wise rearrangement of root cortex cells during arbuscule development in *Lotus japonicus*.

We are looking for strongly motivated candidates with a doctoral/PhD degree who should be intellectually independent, experimentally accurate and have excellent writing and communication skills in English. At least one first author publication in a solid, international, peer-reviewed journal is a must. Priority will be given to candidates, who are willing to apply to independent funding sources for their own postdoctoral fellowship.

Postdoc 1 should be skilled in bioinformatics / analysis of complex RNAseq data. Additional experience in lab work is a strong plus.

Postdoc 2 should be skilled in plant research, confocal microscopy and/or any method related to protein-nucleic acid interaction and/or protein-protein interaction such as EMSA, chromatin IP-Seq, TRAP Seq, DAP Seq (DIPSeq), CoIP, FLIM-FRET or similar.

Please send your application including your CV, your list of publications, the names of two referees and a motivation letter stating why you are interested in the topic, why you would like to join the Gutjahr lab and why you would be the right candidate to make progress in the field by email to: caroline.gutjahr@tum.de

Review of applications will start at the 15th of March 2018 but applications will be accepted until suitable candidates have been identified.