



LUDWIG-  
MAXIMILIANS-  
UNIVERSITÄT  
MÜNCHEN

FAKULTÄT FÜR BIOLOGIE  
DEPARTMENT I  
BEREICH BOTANIK  
LEHRSTUHL FÜR BOTANIK  
PROF. DR. DARIO LEISTER



The Ludwig-Maximilians-University with about 7.500 employees and about 46.000 students is recognized as one of Europe's premier academic and research institutions.

The Plant Molecular Biology division, department Biology I, Ludwig-Maximilians-University Munich invites candidates at the earliest possible date for a

**PhD position** (TV-L E13, 65%, fixed-term 3 years) or  
**a Postdoc position** (TV-L E13, 100%, fixed-term 2 years)

The chloroplast is unique to plants and is the host of photosynthesis and a wide range of biosynthetic pathways. Furthermore, chloroplasts have retained their own gene expression system. We investigate specific aspects of chloroplast gene expression and how disturbances of this gene expression machinery are transduced to the nucleus (retrograde signaling). Many of the components of those signaling networks are common to many types of stimuli and are found in all organisms ranging from bacteria to humans. The knowledge derived from this project therefore advances our understanding of gene expression and signal transduction per se.

Further reading and more information:

[http://www.botanik.bio.lmu.de/personen/wiss\\_mitarbeiter/kleine/index.html](http://www.botanik.bio.lmu.de/personen/wiss_mitarbeiter/kleine/index.html)

Kleine T, Leister D (2016) Retrograde signaling: Organelles go networking. *Biochim Biophys Acta* 1857:1313-25

Kleine T, Leister D (2015) Emerging functions of mammalian and plant mTERFs. *Biochim Biophys Acta* 1847:786-797

We offer

- the possibility to work on a cutting-edge project
- well-equipped, modern and highly interactive research environment within the LMU Biology Campus, Martinsried
- expertise in a wide range of experimental techniques including molecular biology, protein biochemistry, physiology, genetics, cell biology, and applications of next generation sequencing

To strengthen our team we are looking for a motivated PhD student or a Postdoc interested in the above-mentioned topics and willing to apply various cutting-edge technologies.

Interested applicants should have a strong background in plant physiology and/or molecular biology. Knowledge in systems-biology approaches and an affinity to use bioinformatics are of advantage.

Applications (CV, letter of motivation and the contact details of two referees) should be sent per e-mail (subject: "Position gene expression and retrograde signalling") until **03.05.2019** to [tatjana.kleine@lmu.de](mailto:tatjana.kleine@lmu.de)

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