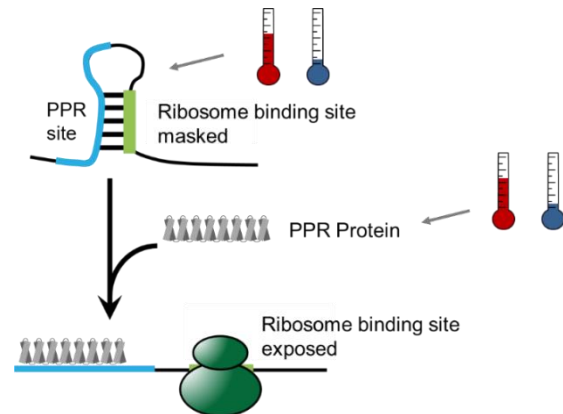


## PhD Position (m/f/d)

### Subject: Pentatricopeptide repeat proteins as modulators of chloroplast translation and RNA stability during temperature acclimation

For our project to investigate the role of RNA-binding proteins in temperature acclimation in plant organelles we are looking for a highly-motivated PhD student in the department of Molecular Genetics, starting at the earliest **1st September 2020**.



#### Your tasks:

Research in the project "Pentatricopeptide repeat (PPR) proteins as modulators of chloroplast translation and RNA stability during temperature acclimation".

Among them:

- performing genetic and biochemical analyses to understand the influence of PPR proteins on RNA stability and translation during temperature acclimation;
- absolute quantification of PPR proteins under temperature acclimation;
- transcriptome analysis of knock-out mutants during temperature acclimation;
- RNA structure analysis during temperature acclimation;
- quantification of RNA binding affinity of PPR proteins under different temperatures;
- and publication of the project results.

For more information on our projects and related publications visit our lab page:  
<https://www.molgen.hu-berlin.de/research/plant-ppr-proteins/>

#### Your profile:

- M.Sc. degree in biological sciences, biochemistry or a related field
- Experience in molecular biology techniques
- Very good communication skills
- Ability to organize and prioritize work efficiently
- an affinity to use bioinformatics are of advantage.

#### We offer:

- Top level interdisciplinary research at an excellence university, which enjoys the highest reputation within Germany as well as internationally
- Close collaborations with internationally recognized scientists within the framework of the collaborative research center TRR 175: "The Green Hub" (<http://www.tr175.bio.lmu.de/>)
- A highly motivated, international team of PhD students and PostDocs
- Training in molecular biology techniques and basic bioinformatics (NGS data analysis)
- 4-year contract / 65% TV-L E13

Please send your full application, quoting "Application number: DR/116/20", to Dr. Hannes Ruwe by 9th August 2020: [bewerbungen-molgen@hu-berlin.de](mailto:bewerbungen-molgen@hu-berlin.de)