



Open position for the LSM call of applications

Department/Institute: LMU Faculty of Biology, Genetics

Subject areas/Research fields:

Biology: Molecular biology, microbiology; Agricultural sciences: Plant protection

Keywords: RNA interference, extracellular RNAs, RNA-binding proteins

Name of supervisor: Silke Robatzek

Funding: DFG-funded RU5116: [https://www.biologie.uni-](https://www.biologie.uni-hamburg.de/en/forschung/forschungsverbuende/dfg-ru5116.html)

[hamburg.de/en/forschung/forschungsverbuende/dfg-ru5116.html](https://www.biologie.uni-hamburg.de/en/forschung/forschungsverbuende/dfg-ru5116.html)

Project title: The role of Hfq and exRNAs in plant infections with *Xylella fastidiosa*

Project description: *Xylella fastidiosa* (*Xf*), a xylem-infecting bacterial pathogen of many crops, releases extracellular vesicles (EVs). We could show that *Xf*-EVs carry RNA (evRNAs) of different biotypes and are decorated with non-ribosomal RNA-binding proteins (RBPs). Here, we will investigate the loading of evRNAs, focusing on the RNA-binding protein Hfq, the potential delivery of evRNAs to recipient cells and the role of corresponding predicted plant target genes for the outcome of *X. fastidiosa* infection.

References:

<https://nph.onlinelibrary.wiley.com/doi/full/10.1111/nph.18089>

<https://onlinelibrary.wiley.com/doi/10.1111/pbi.13629>

<https://www.biorxiv.org/content/10.1101/2024.06.25.600702v1>

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Research group website: <https://robatzeklab.org/>

Apply: Please send your application through the [online portal](#) of the Graduate School Life Science Munich (LSM)

