CSCS-/RCB–Colloquium

Thursday, December 11th, 2025, at 2 p.m.
H53

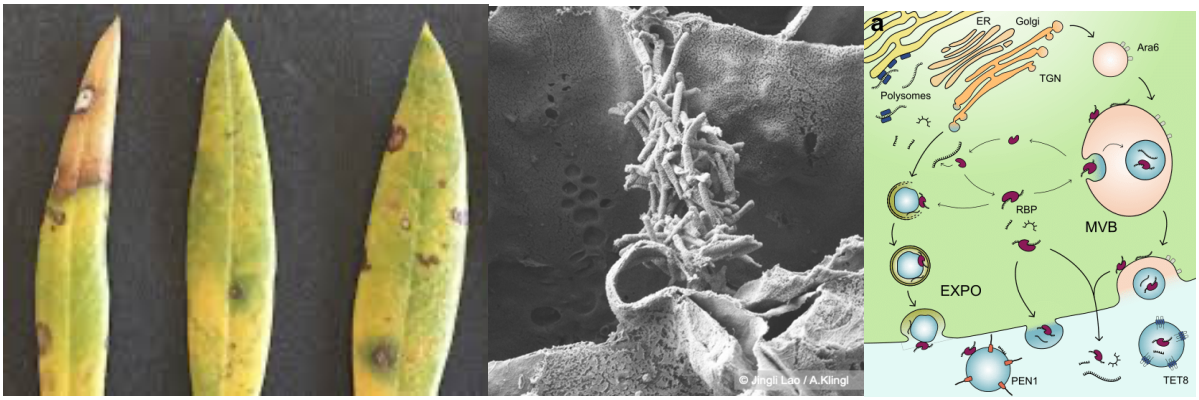
Prof. Dr. Silke Robatzek

Genetics Department

LMU München

"*Xylella fastidiosa's* relationships: the bacterium, the host plants, and the plant microbiome"

The Robatzek lab studies infectious diseases in plants, such as Olive leprosy, and the plant immune system defending the pathogen. Their aim is to understand the molecular processes that control the outcome of infection: immunity or disease. To this end, their research focuses on plant immune receptors, the microbial patterns activating the receptors, and the virulence strategies used by pathogens to circumvent immunity. They work on the cellular and molecular basis of plant immunity of *Xylella fastidiosa* with the long-term goal to genetically identify the components of the plant´s immune system recognizing the bacteria. Multi-host pathogenicity of *X. fastidiosa* that colonizes xylem vessels, is another research topic of her team. They further study extracellular vesicles (EVs) as important bacterial structures, which have been associated with virulence, and in the context of the phyllosphere microbiome.



Host: Prof. Dr. Thomas Dresselhaus <thomas.dresselhaus@ur.de>

Universität Regensburg

Plant Cell Biology, Biochemistry, and Biotechnology