



## Plant-Virus Interactions: Molecular Biology, Intra- and Intercellular Transport

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Plant RNA- and DNA-viruses have small genomes and with this limited coding capacity exhibit a strong dependency on host cellular processes and factors to complete their viral life cycle. Various interactions of viral proteins or nucleic acids with host components (proteins, nucleic acids, carbohydrates, lipids and metabolites) evolved, which are essential for a successful systemic spread of viruses within the plant. For example, in plants, transport of endogenous macromolecules like proteins and nucleic acids occurs in a highly selective and regulated manner and viruses exploit these specifically controlled trafficking pathways. Research on plant virus movement is located at the interface of molecular plant virology and plant cell biology. The proposed book project aims to give an overview on the current state of this research and to highlight novel insights into the dynamic interplay between plant viruses and host cells. The book is intended for researchers in plant biology and virology and especially written for those who aim to understand cell biology of virus-plant interactions. ?

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#### About the Author

Tatjana Kleinow, PhD, is Privatdozentin and Principal Investigator at the University of Stuttgart, Faculty of Energy, Technology, Process Engineering and Biological Engineering, Germany. Her research focuses on molecular biology of plant virus movement, identification and functional characterization of molecular virus/plant interactions in intra- and intercellular transport of Genimiviruses and Macromolecular characterization of regulatory plant factors implicated in intra- and intercellular movement.

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