



UNIVERSITÄT **BONN**

Die Pflanzenwissenschaftlichen
Institute

Einladung zum Pflanzenwissenschaftlichen Kolloquium

Freitag, den 31. Mai 2024, 12 c.t.

Nussallee 4, Hörsaal Botanik

Referent: Prof. Dr. Gerd Jürgens

Center for Plant Molecular Biology (ZMBP), University of Tübingen

Thema: „Plant cytokinesis – An alternative strategy to divide the cell“

Plants do it differently than other eukaryotes such as animals and fungi. Rather than constricting the dividing cell and pinching off the remaining cytoplasmic bridge, plants produce the partitioning membrane by targeted secretion. This involves a specific membrane-fusion machinery which is assembled at the ER and activated at the plane of cell division. From an evolutionary perspective, this was not always the case but started from the re-use of an originally late-secretory fusion machinery. Only the flowering plants met their increased demand, which was caused by double fertilisation, by adding a more efficient fusion machinery to the existing one.

Diskussionsleitung: Prof. Dr. Gabriel Schaaf, INRES - Institut für Nutzpflanzenwissenschaften und Ressourcenschutz, Universität Bonn

Zu diesem Vortrag und zu einer evtl. Nachsitzung sind Sie herzlich eingeladen