

Einladung zum Pflanzenwissenschaftlichen Kolloquium

Freitag, den 5. Dezember 2025, 12 c.t.

Nussallee 9, Hörsaal X

Referent: Prof. Dr. Nicholas Smirnov

Biosciences, University of Exeter, United Kingdom

Thema: „The role of reactive oxygen species (ROS) in pollen function“

Normal pollen growth requires tip-localised ROS production from plasma membrane NADPH oxidase and ROS are also implicated in pollen-stigma interactions. The self-incompatibility (SI) response, which eventually results in pollen programmed cell death of incompatible pollen, involves instant arrest of pollen tube growth associated with NADPH oxidase inactivation and a very rapid perturbation of respiration associated with increases in mitochondrially-sourced ROS. These processes have been investigated in Arabidopsis expressing the poppy SI system along with the hydrogen peroxide biosensor roGFP2-Orp1 targeted to pollen organelles.

Diskussionsleitung: Prof. Dr. Andreas Meyer, INRES – Chemical Signalling

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