

IBIOL

EXTERNAL SEMINAR



23 APRIL 2026



12:15–13:15



ROOM F200



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Extracellular conversion of an insect egg-derived phospholipid elicitor triggers immune responses in Arabidopsis

Arabidopsis recognizes insect egg-derived phosphatidylcholine (PC) and triggers defense responses. Intriguingly, we found that PC is converted to phosphatidic acid (PA) in the extracellular space and that PA interacts with plasma membrane-localized receptors LecRK-I.1 and LecRK-I.8 to activate downstream signalling events. Thus, although they appear as inert structures deposited on leaves, insect eggs contain chemical signals that drastically affect their interaction with host plants.