



つくば機能植物イノベーション研究センター  
形質転換植物デザイン研究拠点研究セミナー  
(85)

日 時 : 2026年3月10日(火) 15:00-16:00

場 所 : 生物農林学系棟 F506 セミナー室

タイトル : Decoding Molecular Mechanisms of Cell  
Surface Immune Signaling in Plants

講演者 : 後藤 幸久 先生<sup>※</sup>

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※ ~2026年1月: Institute of Plant Microbial Biology, University of Zurich

Plants are continuously exposed to fluctuating environmental stresses that affect their growth and immunity. To cope with these challenges, plants have evolved sophisticated sensing systems to perceive endogenous and exogenous molecular signals. Cell surface-localized pattern recognition receptors (PRRs) recognize these conserved molecular patterns, including pathogen- and microbe-associated molecular patterns (PAMPs/MAMPs), damage-associated molecular patterns (DAMPs), and phytochemicals, thereby activating immune responses known as pattern-triggered immunity (PTI). In this seminar, I will discuss the molecular mechanisms underlying cell surface-mediated immune signaling and present recent advances from our work on the characterization of PAMPs/MAMPs/DAMPs and phytochemicals, as well as the exploration of their potential PRR partners.

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