

# 平成28年度 第19回 数理分子生命理学セミナー

日時：平成28年10月25日(火) 12:50～

場所：理学部 E002 講義室

講師：片桐 文章 先生 (ミネソタ大学 植物生物学科 教授)

演題： Dynamics, mechanisms, and evolution of a highly resilient plant immune signaling network

要旨： Microbial pathogens can evolve much faster than plants and compromise the plant immune signaling network. Thus, the immune signaling network needs to be highly resilient against perturbations to its internal components, so that its underlying mechanisms are effectively concealed from pathogen evolution. Studying a highly resilient network is necessarily associated with an identifiability problem. To overcome the problem, we reduced the network to a network of four subnetworks and analyzed it in comprehensive combinatorial states of the subnetworks. The latter enabled a conceptual complete reconstitution of the network at the subnetwork scale, which allowed simpler interpretations of mechanistic relationships among the subnetworks underlying a resilient network.

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