

# 生命科学セミナー

**Revisiting the plant immune system from an evolutionary point of view**

**進化的観点から植物免疫システムを見つめ直す**

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**Basic Immune System of Plants / Protein Mass Spectrometry  
Max Planck Institute for Plant Breeding Research**

**日時： 9月25日（水曜日） 14:00～15:00**

**場所： 農学・生命科学研究棟（京都大学北部構内）**

**セミナー室（2）（1階 104号室）**

**North Campus, Bldg 16, Room 104**

Extensive studies have revealed conserved and unique molecular mechanisms underlying the plant immunity across different plant species. However, most insights gleaned to date have been limited to seed plants, particularly *Arabidopsis*. Thus, we still lack knowledge on generality of the proposed conserved molecular mechanisms in diverse plant species covering early diverging land plant lineages and streptophyte algae. Recent rapid accumulation of plant genome information, including genomes of the charophyte alga *Chara braunii*, the moss *Physcomitrella patens*, and the liverwort *Marchantia polymorpha*, opened the door to investigate the origin and diversification of the plant immunity-related genes. Our ongoing studies to understand the evolution of pattern-recognition receptors and salicylic acid pathway mainly utilizing *Marchantia polymorpha* as a tool will be discussed.