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Plant Powdery Mildews: Host-Pathogen Interactions, Co-evolution, and Disease Control

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Deadline for manuscript submissions:
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Message from the Guest Editors

Powdery mildew diseases are caused by many different species of fungi in the order Erysiphales. These pathogens can infect a wide range of plants that display white powdery spots on the surface of leaves, buds, young shoots, fruits, and flowers. Powdery mildews are among the most destructive plant diseases and can cause significant yield losses in agricultural fields. Deployment of effective powdery mildew resistance (Pm) genes in plant varieties is an important approach to reduce disease losses. Furthermore, regulation of resistance pathways by certain compounds (e.g. BTH and glycerol) was also shown to improve resistance to powdery mildew in several plant species.

Plants developed multifaceted innate immunity systems during their long co-evolution alongside their pathogens. Various plant resistance mechanisms have been demonstrated to be activated by specific surface-localized or cytoplasmic receptors in response to infection by powdery mildew. Original research and review articles are welcome.

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Message from the Editor-in-Chief

The worldwide impact of infectious disease is incalculable. The consequences for human health in terms of morbidity and mortality are obvious and vast but, when infections of animals and plants are also taken into account, it is hard to imagine any other disease that has such a significant impact on our lives—on healthcare systems, on agriculture and on world economics. *Pathogens* is proud to continue to serve the international community by publishing high quality studies that further our understanding of infection and have meaningful consequences for disease intervention.

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