



## Recent Advances on Pathogenomics and Effectoromics of *Verticillium* Species

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### Message from the Guest Editors

Several *Verticillium* species are relevant soil-borne plant pathogens, infecting nearly 400 host species belonging to over 40 botanical families. Such a large host range, together with their ubiquity and long survival in soils, make these pathogens particularly difficult to control, especially after the drastic reduction in the available soil-deliverable fumigants and fungicides. Very few host resistance genes have, so far, been found, while polygenic resistance sources are often insufficient to control the pathogen effectively. In the last century, research efforts have aimed to tackle *Verticillium* wilts in many crops. Furthermore, physical, agronomical, chemical, and biological control measures have been studied and implemented either individually or in combination within integrated frameworks in the attempt to contain yield losses due to *Verticillium*-induced diseases. Nowadays, it seems that this research approach has reached a plateau and outstanding advances are hardly achieved.





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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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