



Fusarium spp.: A Trans-Kingdom Fungus

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Message from the Guest Editor

A number of environmental and pathogenic fungi are collectively referred to as trans-kingdom pathogenic fungi, meaning that they cause both human and plant (crop) diseases. The loss of crop production due to organisms such as *Fusarium* threatens food security. These environmental organisms likely do not fall into the category of other fungal pathogens such as the *Candida* species *Cryptococcus neoformans*, or the endemic fungi, such as *Histoplasma capsulatum*, causing significant human, but not crop diseases. The *Fusarium* and *Aspergillus* species rank among the most important of the trans-kingdom pathogens. Throughout the recent decade, interesting studies have described molecular pathogenesis, azole resistance, soil and plant microbiomes as sources of potential new antifungals and the relationships to human disease, especially regarding patients with life-threatening underlying conditions. Current data describe the azole resistance of the environmental isolates of both fungal groups. These data have posed the possibility of the air-borne transfer of azole-resistant isolates from the environment to patients, since azoles are used to protect crops from fungal diseases.





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Message from the Editor-in-Chief

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