

Special Issue

Plant Resistance Against Plant Viruses and Pests

Message from the Guest Editors

Pest insects do not only cause direct damage to plants by the withdrawal of nutrients but are also able to transmit viruses causing severe diseases in plants, e.g. affecting yield amount and quality. For a long time, the control of significant insect pests and plant viruses relied on the use of insecticides. Due to efforts to reduce the amount of pesticides applied, e.g. by banning the use, it is necessary to place other components of integrated pest management in the focus. Plant resistance to insects and viruses is one of these components. Here we give an overview of recent advances in this field with a focus on the identification of resistance genes, molecular mechanisms of resistance, phenotyping of resistance and the tritrophic interaction between viruses, their vectors and host plants.

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