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BROOMRAPE RESISTANCE FROM WILD SPECIES

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ABSTRACT

Sustaining sunflower production necessitates the comprehensive management of pests and diseases, primarily focusing on bolstering the crop's genetic resistance. Sunflower broomrape (*Orobanche cumana* Wallr.) poses a significant challenge in this regard, as its rapid evolution of virulence hinders traditional breeding efforts for resistance. Presently, all known resistance genes have succumbed to more virulent parasite strains, prompting renewed endeavors to discover novel sources and mechanisms of resistance. Wild species of *Helianthus* currently emerge as the primary reservoirs of untapped resistance genes. In this presentation, we will explore the strategies being developed by research groups worldwide to identify and characterize fresh resistance genes against sunflower broomrape and to incorporate them into cultivated sunflower varieties.

Keywords: Sunflower broomrape, parasite, wild species, resistance