Multiple Evolutionary Events Involved in Maintaining Homologs of Resistance to Powdery Mildew 8 in Brassica napus.

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Abstract: The Resistance to Powdery Mildew 8 (RPW8) locus confers broad-spectrum resistance to powdery mildew in Arabidopsis. Multiple evolutionary events involving the RPW8 locus have been documented in various Brassica species, including Brassica napus. These events include gene duplication, functional diversification, and vertical inheritance. The diversity and stability of RPW8 homologs highlight their importance in plant defense against powdery mildew. At least some may play a role in defense and could serve as resistance resource in engineering disease-resistant plants.

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