

Parental selection on wine grapevine breeding for frost hardiness in China

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The grapevine cultivars of *Vitis vinifera* are difficult to be grown in Northeast China (including northern part of Inner Mongolia) due to severe cold in winter and short length of frost-free season. Thus, it is important for the industry to breed frost hardiness grapevine varieties. The achievements on breeding frost hardiness wine grapevine cultivars in the past half a century are summarized from *Vitis amurensis* cultivars breeding and interspecific hybridization breeding, including crosses of *V. amurensis* × *V. vinifera*, F_1 (*V. amurensis* × *V. vinifera*) × *V. amurensis*, F_1 (*V. amurensis* × *V. vinifera*) × *V. vinifera*, F_1 (*V. amurensis* × *V. vinifera*) × F_1 (*V. amurensis* × *V. vinifera*). The technical route for frost hardiness grapevine breeding in the 21-st century is discussed.

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