CROP REGISTRATIONS


Registration of 97-363, 97-2170, and 97-2162 Pea Germplasms

Three \( F_8 \) sugar snap pea (\( Pisum sativum \) L.) breeding lines, 97-363 (Reg. no. GP-91, PI 606699), 97-2170 (Reg. no. GP-92, PI 606700), and 97-2162 (Reg. no. GP-93, PI 606701), were developed cooperatively and released jointly by the USDA-ARS and the Washington, Idaho, and Oregon Agricultural Experiment Stations in August of 1998. These breeding lines are unique in combining genes for resistance to root rot [caused by \( Fusarium solani \) (Mart.) Sacc. f. sp. \( pisi \) (F.R. Jones) W.C. Snyder & H.N. Hans.] with genes that condition tolerance to common root rot (caused by \( Aphanomyces euteiches \) Drechs.) and pea wilt [caused by Races 1, 2, 5, and 6 of \( Fusarium oxysporum \) Schlect. f. sp. \( pisi \) (van Hall) Snyder & Hans.] and with genes that condition tolerance to fusarium root rot and tolerant to aphanomyces root rot. 97-363 blooms in the 15th node, is single and double podded, and has sickle-shaped pods. Wise. 7103 and 7104 are cultivars released by the Wisconsin Agricultural Experiment Station (1). Geneva 059.89 (2) is an ARS germplasm resistant to fusarium root rot and tolerant to aphanomyces root rot and is resistant to fusarium root rot and tolerant to aphanomyces root rot and is resistant to fusarium root rot and tolerant to aphanomyces root rot. 97-2170 is single and double podded, and blooms in the 14th node and is single podded. Pods are sickle-shaped and about 6.4 to 10.2 cm in length, with excellent eating quality. Seeds are a mixture of smooth and dimpled types. This line is tolerant of aphanomyces root rot but is susceptible to fusarium root rot and is resistant to fusarium wilt.

The expected uses of 97-363, 97-2170, and 97-2162 are as parents to develop sugar snap pea cultivars with multiple disease resistance, with special emphasis on genes for resistance to root rot and wilt. Accessions could be grown as home-garden types in crosses for development of improved cultivars.

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References and Notes


Registration of SR93 Sugarbeet Germplasm with Smooth Root

Sugarbeet (\( Beta vulgaris \) L.) germplasm SR93 (Reg. no. GP-204, PI 598075) was developed by the Michigan Agricultural Experiment Station in May 1997. SR93 has excellent root smoothness, equivalent to SR87 (4) but with broader genetic background. A single sulfonylurea herbicide resistant line, L19 (PI 590690) (3). Four progeny plants from that mating were pair-crossed to two smooth-root line SP85700 (PI 590776). Two herbicide resistant plants from the resultant progenies were pair-crossed to SR87 (developed from one cycle of mass selection for root smoothness from SP85700) plants, producing the four families that entered the two smoothroot mass selection for root smoothness in a population derived from a high sucrose line, L19 (PI 590690) (3). Four progeny plants from that mating were pair-crossed to two

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