

Screening of germplasm of pigeonpea against phytophthora stem blight

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ABSTRACT

Pigeonpea [*Cajanus cajan* (L.) Millsp.] is very important and old pulse crop, which is used in various ways. Its main use is in the form of Dal (split seed) in the Indian diet. The phytophthora stem blight caused by *Phytophthora drechsleri* f.sp. *cajani* is the third potentially important disease of pigeonpea crop after wilt and sterility mosaic wherever crop is grown during *Kharif* season mostly in northern parts of India. The present investigation was undertaken with an objective to develop disease resistant material by screening of pigeonpea germplasm against phytophthora stem blight. A screening trail was conducted by employing forty pigeonpea germplasms, in which Only one germplasm namely ERG-65 was found resistant, however, 27 germplasms included HY-3C, KPL44, MA-06, Vipula 42, WRP-1, Pusa-992, BDN-711, RVSA-07-22, AL-1593, RVSA-07-10, GAUT-001, BSMR-853, BSMR-2, JICM-189, BSMR-579, BSMR-571, RVKT-260, KPL-43, AL-1798, RVKT-261, CORG-9701, GT-101, BRG-2, AKT-8811, RVSA-7-29, ICPL-8863, and ICPL-87119 were found moderately resistant. Resistant germplasm namely ERG-65 may be utilized as a resistant donor in developing resistant variety against the phytophthora stem blight.

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