

LICENSING OPPORTUNITY

White rust resistant oilseed mustard (Brassica juncea) lines - Varuna WRR-2, Pusa bold WRR-2 and Rohini WRR-2

Need and Opportunity

Indian mustard (*Brassica juncea*) is the most important and major edible oil seed crop. White rust (*Albugo candida*) is the most prevalent disease which causes major yield losses in Indian Mustard. No released variety or hybrid (except hybrid DMH-1) of mustard either by the public system or by the private seed companies contains resistance to white rust. The resistance conferred through biological interventions is the most cost-effective method of disease control. Locus AcB 1-A5.1 seems to confer complete resistance without any negative impact on yield. More loci have been marked and will allow durable resistance. White rust-free mustard would increase production of mustard crop in the country.

About the Technology

The three White Rust Resistant Oilseed Mustard (*Brassica juncea*) lines namely Varuna, Pusa bold WRR2 and Rohini WRR have been developed through Marker Assisted Backcross. These lines have been tested for resistance to the highly pathogenic strain of *Albus candida* isolated from an infected field in Bharatpur and six other isolates taken from Alwar, Hisar, Meerut, Morena, Pantnagar and a site in Bihar. Field performance of all the three varieties have been compared with their normal counterparts in 2017-18 and yield has been found to be at par.

Developer, Funding Organisation and BCIL

Delhi University, South Campus (DUSC) has developed three White Rust Resistant Oilseed Mustard lines under sponsorship of Department of Biotechnology (DBT), Ministry of Science and Technology, Government of India. On behalf of DBT-BIRAC and DUSU, Biotech Consortium India Limited (BCIL), a DBT, Government of India promoted Company hereby invites Expression of Interest in licensing the above technology.



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