

CANOLA –Root maggot resistance

License Status:

Materials available for license

Contact:

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Description:

Larvae of the cabbage root maggot (*Delia radicum*) and the turnip maggot (*Delia floralis*) cause significant economic damage to crops of canola. Guelph researchers have developed a series of canola lines with resistance to root maggot. These materials are derived from a hybridization of *Sinapsis alba* x *Brassica napus* followed by a number of backcrosses to *B. napus*.

Doubled haploid lines were generated and selected for field resistance based on degree of root damage from maggot feeding. Further cycles of crossing and selection were conducted. Summaries of field and agronomic results are published in Kott and Dossdall (2004, Brassica 6:55-62).

Applications:

- Development of canola varieties with resistance to root maggot.
- Root maggot resistant varieties would reduce the need for chemical insecticides.

Status:

- DH lines are available for license on a non-exclusive basis for breeding.
- Territories available for license are Canada and the EU.

