

**Project Title** : Effects of biofumigation with some Brassicaceae plants against Root-knot nematodes (*Meloidogyne* spp. Goeldi) on cucumber greenhouse production

**Start Date** : 2013

**Supporting Body** : GDAR

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**Summary** : In this study, biofumigant plants such as mustard, cauliflower and cabbage will be experimentally applied instead of registered plant protection chemicals used against root-knot nematodes. For this purpose, it is planned that a trial will start during 2014-2015 at a greenhouse in which the cucumber is growing and these plants are intensively infected by root knot nematodes in Izmir province- Menderes district. The experiment will be established according to randomized block design, with 9 characters and 4 replications.

At the end of this study, it is aimed to find some Brassicaceae species as an alternative method that they would be harmless to human and environmental health, be eco-friendly, not caused to residue problem in soil or underground water to dangerous extent and be supposed as economical for growers in controlling of root-knot nematodes caused significantly crop losses in greenhouse vegetable growing. It is also considered that the positive results obtained from the trials would be used in agricultural production programs such as Integrated Crop Management or Organic Farming.