

## **Oil cakes as an eco-friendly approach for the management of root-knot nematode, *Meloidogyne incognita* infesting *Vigna radiata* L.**

**Amir Khan, Mohd. Tariq, Mohd. Asif, Faryad Khan and Mansoor A. Siddiqui**

Section of Plant Pathology and Plant Nematology, Deptt. of Botany, A.M.U., Aligarh, India (202002)

Received July 5, 2017 and Accepted September 2, 2017

**ABSTRACT** : A pot experiment was conducted to evaluate the nematicidal efficacy of some oil cakes viz., neem, mustard, cotton and linseed as organic amendments for the management of root-knot nematode, *Meloidogyne incognita* on mung bean under glasshouse conditions. Soil amendment with two different doses (50g and 100g/pot) of oil cakes significantly reduced the root-knot infestation caused by root-knot nematode, *M. incognita* and also improved growth and yield of mung bean. The highest improvement was observed in plants treated with neem cake @100g followed by mustard and cotton with the same dose. Least was observed in the treatment of linseed cake @50g per pot. It may be found due to the presence of some components released after the decomposition of oil cakes which had nematicidal effect on *M. incognita*. Hence, it may be concluded that oil cakes are better substitute against chemical nematicides for the effective management of root-knot nematode and reduce environmental hazards for ecologically safe environment.

**Key Words** : *M. incognita*, mung bean, nematicidal, oil cake, soil amendments.