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Category	: International Rice Research Conference
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Title of Entry	: Prevalence of Rice root knot nematode Meloidogyne Graminicola in rice fields of Chiniot and Faisalabad districts in Pakistan
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Select only one type of presentation	: 15 minute oral presentation
Abstract	: Prevalence of Rice root knot nematode Meloidogyne Graminicola in rice fields of Chiniot and Faisalabad districts in Pakistan Abdul Jabbar1, Nazir Javed1, Anjum Munir2, Sajid Aleem Khan1 and Muhammad Amjad Ali1 1Department of Plant Pathology, University of Agriculture Faisalabad, Pakistan Crop disease research institute, National Agriculture research Centre, Islamabad, Pakistan Corresponding Author:youngphyto@gmail.com ABSTRACT Rice is the second staple cereal crop of Pakistan. Meloidogyne graminicola is one of the most important nematode that threatening the rice production all over the world. In 2003 M.graminicola was first time reported from Sheikhupura district of Pakistan. No significant research was conducted to evaluate this threat. In 2014-15 we found Nematode attack on rice crop in different fields of rice in Faisalabad. A survey was conducted during the months of August-September 2014-16 in Faisalabad and Chiniot districts of Punjab Province of Pakistan to record the infestation of rice root-knot nematode M. graminicola in farmer fields. Survey records revealed that M. graminicola was prevalen in many fields. The results concluded that both districts have root knot nematode infestation which was 20% in Faisalabad and 17% in Chiniot during 2014 that increased up to 27.5% in Faisalabad and 22.5% in Chiniot. The nematode population varied in each location. Sampling was done during kernel formation in rice plants and found that M.graminicola galls were clearly visible on the roots of infected plants. Hook and pin shaped galls were observed on rice root system and infected plants showed significant stunted growth. Eight populations from different locations were successfully characterized through ITS region with the help of molecular tools and GENbank accession no are JB1CT KX757064.1 to JB3FSD2 KX757067.1 and JB3FSD2 KX757067, JB3FSD3 MH057345.1, JB3FSD4MH057346.1, JB3FSD5 MH057347.1, JB3FSD6 MH057348.1. No management practices are being carried out by farmers due to lack of information Key words: Oryza sativa, ITS, GENbank, Prevalence, Galls, Meloidogyne spp. Read more»

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