

# Biodiversity Of Plant Parasitic Nematodes Ijpaes

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## **Biodiversity Of Plant Parasitic Nematodes**

Diversity and Distribution of Plant Parasitic Nematodes Associated with Medicinal Plants in West Bengal, India  
Nematode, commonly known as round worm, is considered as one of the major constraint of medicinal plants which can compromise the quality and quantity of their healing properties and their yield.

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## **Diversity and Distribution of Plant Parasitic Nematodes ...**

parasitic nematode. Key words: Biodiversity, community, nematodes, banana varieties, soil, Thanjavur district, Tamilnadu. INTRODUCTION In India covering an area of 4.9 lakhs banana fruits per hacter with total production 16.9 million tones per annum [1]. It is one of the non-commercial plant for cultivated is one of the backyard

## **BIODIVERSITY OF PLANT PARASITIC NEMATODES ASSOCIATED WITH ...**

from each sample. Plant parasitic nematodes were iden-tified to genus and/or species level. The species of root-knot nematodes were identified by their perineal pat-tern, male and juvenile characters (Siddiqi, 1986). Nematode population density (mean  $\pm$  S.E.) with range and frequency of occurrence of each nematode

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## **NEMATODES OF CASHEW ...**

Nematode diversity on sugarcane is greater than most other cultivated crops, with more than 310 species and 48 genera of endo-and ectoparasitic nematodes reported from the root and rhizosphere of the plant (Spaull and Cadet, 1991). Meloidogyne and Pratylenchus are the two species of plant-parasitic nematodes most frequently

## **Biodiversity of plant-parasitic nematodes of sugarcane in ...**

Whereas plant diversity increased by liming and decreased by N and NPK, the diversity of nematodes, collembolans, mites, and enchytraeids increased by N, PK, or NPK.

## **Biodiversity of plant-parasitic nematodes of sugarcane in ...**

Five genera of plant-parasitic nematodes associated with the rhizosphere of maize plants were found, namely Helicotylenchus, Pratylenchus,

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Haplolaimus, Longidorus, and Xiphinema. In addition to parasitic nematodes, non-parasitic nematodes were also identified as having no stylet, namely Campydoroides, Mononchus, and Rhabditis.

## **The density and diversity of plant-parasitic nematodes ...**

In book: Plant Biodiversity: Monitoring Assessment and Conservation (pp.239-274) Chapter: Diversity of Plant Parasitic Nematodes in Pulses; Publisher: CABI, Wallingford, UK.

## **(PDF) Diversity of Plant Parasitic Nematodes in Pulses**

Abstract. The diversity and the prevalence of plant parasitic nematodes associated with the cereals in Haiti have been assessed from samples collected in 35 agricultural fields: rice (18 samples), maize (11 samples) and sorghum (6 samples). Thirty (30) nematode species belonging to 12 genera have been identified.

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## **Diversity and characterization of plant parasitic ...**

Plant-parasitic nematodes occur in all sizes and shapes. The typical nematode shape is a long and slender worm-like animal, but often the adult animals are swollen and no longer even resemble worms (Figure 2). Plant-parasitic nematodes range from 250  $\mu\text{m}$  to 12 mm in length, averaging 1 mm, to about 15-35  $\mu\text{m}$  in width.

## **Introduction to Plant-Parasitic Nematodes**

The most diverse nematode communities are found in the tropics. In our opinion, this reflects the geological longevity which is correlated with the time in which species could develop. Regarding aquatic nematodes it is remarkable that nematode diversity in freshwater sediments is much lower than in marine sediments or terrestrial systems.

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## **Functional diversity of nematodes - ScienceDirect**

Plant-parasitic nematodes (PPNs) are a large group of obligate biotrophic pathogens that secrete molecules, called effectors, involved in parasitism. The majority of work in molecular phytonematology has focused on the root-knot and cyst nematodes, which are both sedentary endoparasitic nematodes.

## **Plant-parasitic nematode effectors — insights into their ...**

The prevalence and diversity of plant parasitic nematodes in Northern Ireland cereal and grassland was determined from 191 agricultural fields. A total of 18 nematode genera were detected, includin...

## **Prevalence and diversity of plant parasitic nematodes in ...**

Plant parasitic nematodes occurrence and genetic diversity of banana cultivars grown in Tanzania Doreen M.

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## **Plant parasitic nematodes occurrence and genetic diversity ...**

Biodiversity of plant parasitic nematodes  
of cashew plantations in Tripura, India.  
Abstract Thirteen species of plant  
parasitic nematodes within nine genera  
were isolated and identified from roots  
and soil around cashew nut shrubs. They  
were: *Helicotylenchus astriatus*, ...

## **Biodiversity of plant parasitic nematodes of cashew ...**

The prevalence and diversity of plant  
parasitic nematodes in Northern Ireland  
cereal and grassland was determined  
from 191 agricultural fields. A total of 18  
nematode genera were detected,  
including economically important pests,



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lines

Meloidogyne spp., Heterodera spp. and Pratylenchus spp., each of which were above economic damage thresholds in a significant proportion of the sites (92.4%, 70% and ...

## **Prevalence and diversity of plant parasitic nematodes in ...**

Plant-parasitic nematodes are found in the soil, and are considered plant pests because of the damage that they cause to plant roots, stems and leaves. At least 1500 species of plant-parasitic nematodes have been identified globally, including three major groups belonging to the Meloidogyne , Heterodera and Pratylenchus genera (Boag & Yeates, 1998; Jones et al ., 2013).

## **Molecular biodiversity assessment of plant-parasitic ...**

The biodiversity indices  $H'$  and  $E$ , which are popular and useful tools for studying different factors and their effects on nematode populations, revealed

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seasonal effects regarding the diversity of the plant-parasitic nematode genera identified as a result of our study.

## **Diversity and seasonal fluctuation of tylenchid plant ...**

Plant parasitic nematodes (PPNs) are known as one of the most important pests attacking various plants in conventional and organic farming systems. A survey was conducted in January 2019 to determine the occurrence and diversity of PPNS, their associations with soil properties, and to assess their management methods in organically farmed fields in Southern Morocco.

## **Diversity and Management Strategies of Plant Parasitic ...**

Trichodorus, and Xiphinema. The root-knot nematodes (*Meloidogyne* spp.) and the root-lesion nematode (*Pratylenchus* spp.) were the most prevalent PPNS. Vegetable crops (bean, onion, and tomato) had high nematode diversity

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indices

indices compared to some aromatic and medicinal crops, including the Shannon, Evenness, and plant parasitic index (PPI).

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