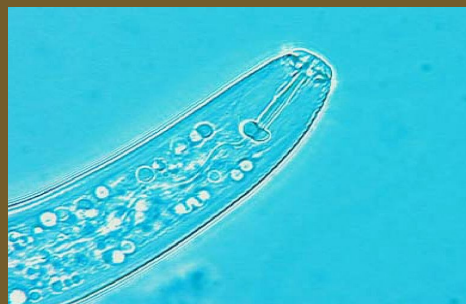


Characterization of *Pratylenchus* nematodes within Europe and populations moving in trade (PRATYLENCHUS)



Funding

Non-competitive funding mechanism. Each funder only pays for the participation of their own national researchers. Total funding € 121 000

Research consortium

Fera (GB), AFSI (AZ), HAPIH (HR), CISTA (CZ), JKI (DE), BPI (GR), NEBIH (HU), DGAV (PT), INIAV (PT), SASA (GB), IAAS (UA), Cleardetection (NL), UC (PT), AFBINI (GB), JHI (GB)

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Goals

Pratylenchus spp. are recognised worldwide as one of the major economically important nematode pests. Recent work (Janssen *et al.* 2017) has shown that many species described from Europe may be cryptic, and that traditional morphological analyses must be supplemented with molecular tools for a robust identification. The project aims to support diagnostic activities and characterise the commonly occurring European *Pratylenchus* species.

Objectives

The project objectives are:

- To collect multiple populations of native and established European *Pratylenchus* species, focusing on those of economic importance;
- To collect multiple *Pratylenchus* populations moving into, and within Europe, associated with trade;
- To accurately characterise *Pratylenchus* populations, and produce morphometrics and photomicrographs;
- To generate DNA sequence data and design PCR primers;
- To produce slide reference material for distribution to collaborators and NCE nematode collections.

Key outputs and results

The following outputs are expected:

- Sequence data of *Pratylenchus* spp.;
- Improved understanding of *Pratylenchus* spp. epidemiology;
- Validated molecular protocols to support the diagnosis of *Pratylenchus* spp.
- Improved availability of reference specimens.