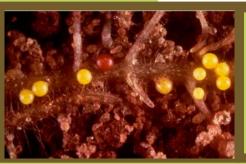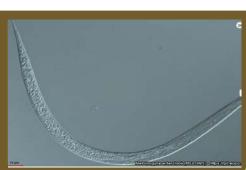# Inventory of living collections of cyst and root knot nematodes in Europe and their maintenance techniques

**03/2017-02/2019**

## Funding

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

Total funding € 94 092

### Goals

Research activities on potato cyst nematodes (PCN, *Globodera* spp.) and root-knot nematodes (*Meloidogyne* spp.) take place in several European countries. PCN and *Meloidogyne* populations are collected, maintained and stored But these activities are costly, thus they are under great pressure and the number of living nematode populations in these collections is decreasing. Collaboration on maintenance might save valuable time and save populations which would otherwise be lost. Due to their biological characteristics, the storage of *Meloidogyne* populations is more difficult than PCN and it is therefore even more important that these populations are well maintained.

This project aims at making an inventory of the populations of *Globodera* and *Meloidogyne* which are present in live collections in the participating countries and to secure information on these collections.

## Research consortium

NVWA (NL), AGES (AT), ILVO (BE), CFIA (CA), SASA (GB), APHIS (USA), GEVES (FR)

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## Objectives

The project objectives are:

• to have an overview of existing live collections of *Globodera* and *Meloidogyne* present in the participating countries, and extend it to non-participating countries, when possible. This inventory can be functioning in the future as a source to provide reference material/proficiency tests (live nematodes, DNA, slides) for nematode diagnostic labs.

• to make an inventory of the different maintenance and storage techniques used in the participating countries.

## Key outputs and results

A manual on the maintenance of cyst and root knot nematodes populations.