

Use of novel molecular methods to understand population diversity and its implications on disease management through the use of resistant potato varieties (Potato Cyst Nematode) PCN



Funding

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Research consortium

SASA-UK, PPS-NL, ILVO-BE, NAAC-Ukr, NCRD-PL

Contact information

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Goals

To deliver a measurement of population diversity amongst European PCN species (mostly *Globodera pallida*) using molecular techniques and to store these results in a database.

Objectives

- To develop a molecular method(s) to differentiate PCN populations
- To conduct pot trials of key populations to determine virulence
- To determine if these differences can be correlated

Key outputs and results

NPPOs will benefit through enhanced knowledge on population diversity within European potato cyst nematode. Growers and agronomists will have better knowledge for selecting varietal resistance that is appropriate to the PCN populations present in specific fields, thus enhancing PCN control, maximising crop yield and minimising nematicide usage