



Isolation, Characterization and Identification of EPN from west Lombardia, Italy

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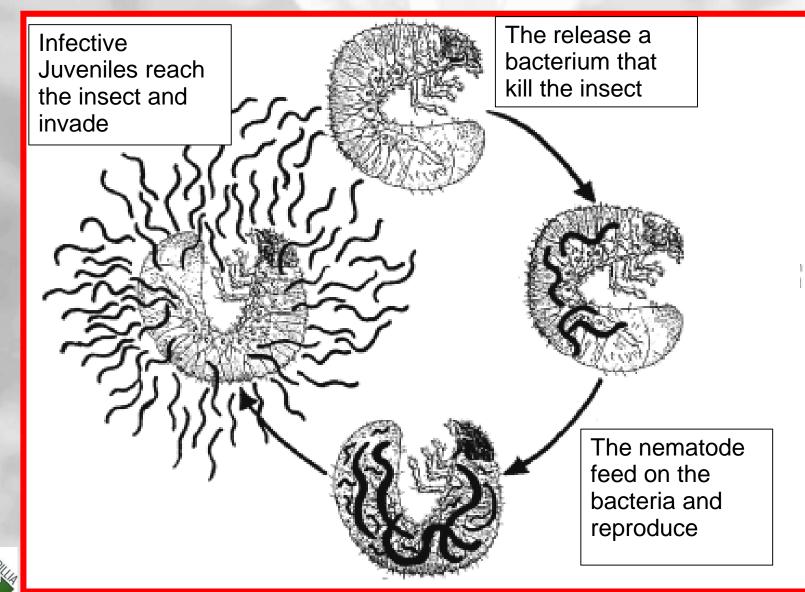
Japanese beetle (Popillia japonica)





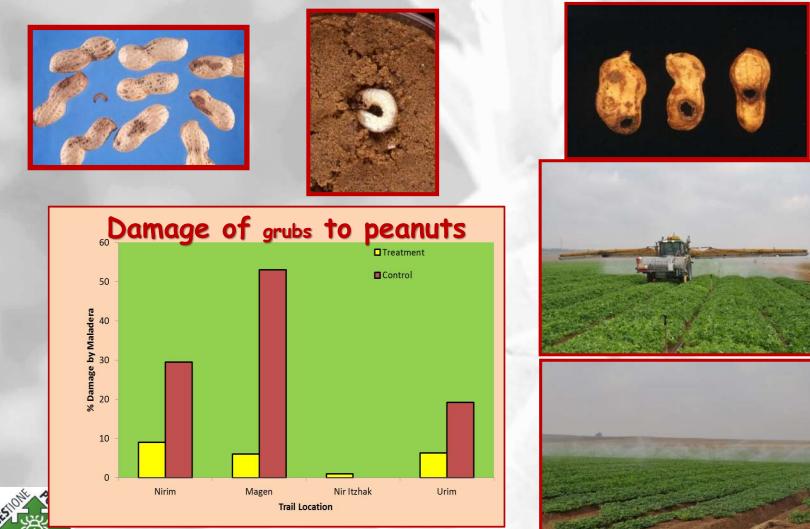


Infectivity of Entomopathogenic nematodes (EPN) Steinernematidae & Heterorhabditidae



Introduzione al Progetto GESPO – Prof. Battisti

In Israel Use of EPNs for Control of White Grubs (Maladera mattrida) in Peanut Fields



In Lombardia

Survey for grubs-Soil samples



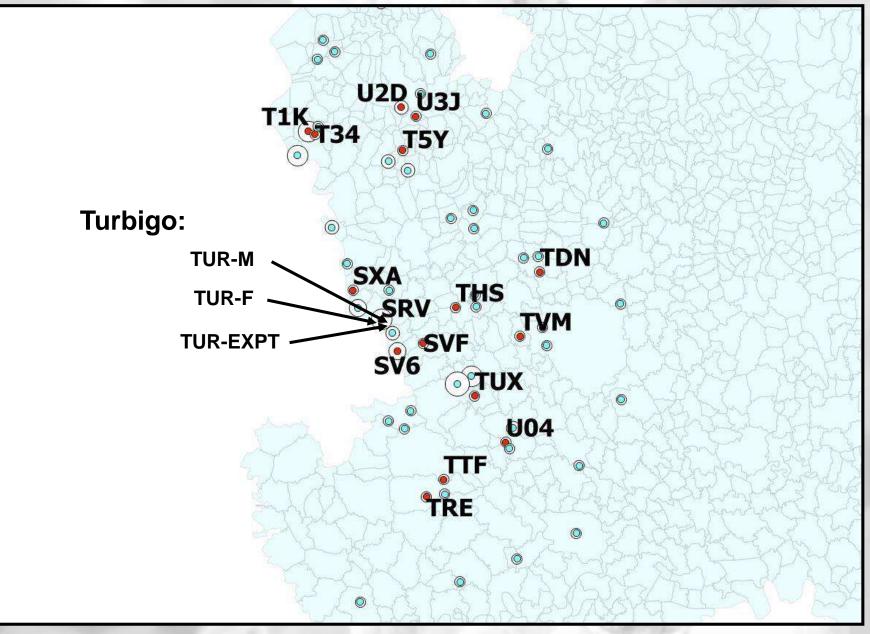






Detection of EPN (26/63 samples positive)







Identification- cadaver color

Steinernematids





Heterorhabditids



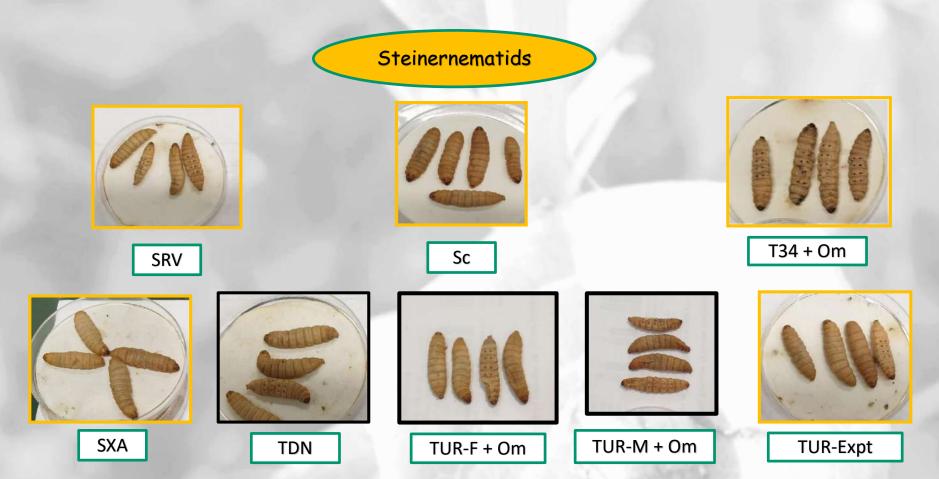




Sc

Non Infected

New Isolated strains





Heterorhabditids



Hb



TSY+ Om



TUX+ Om



THS







SV6



New isolated strains

?????? Oscheius myriophilus

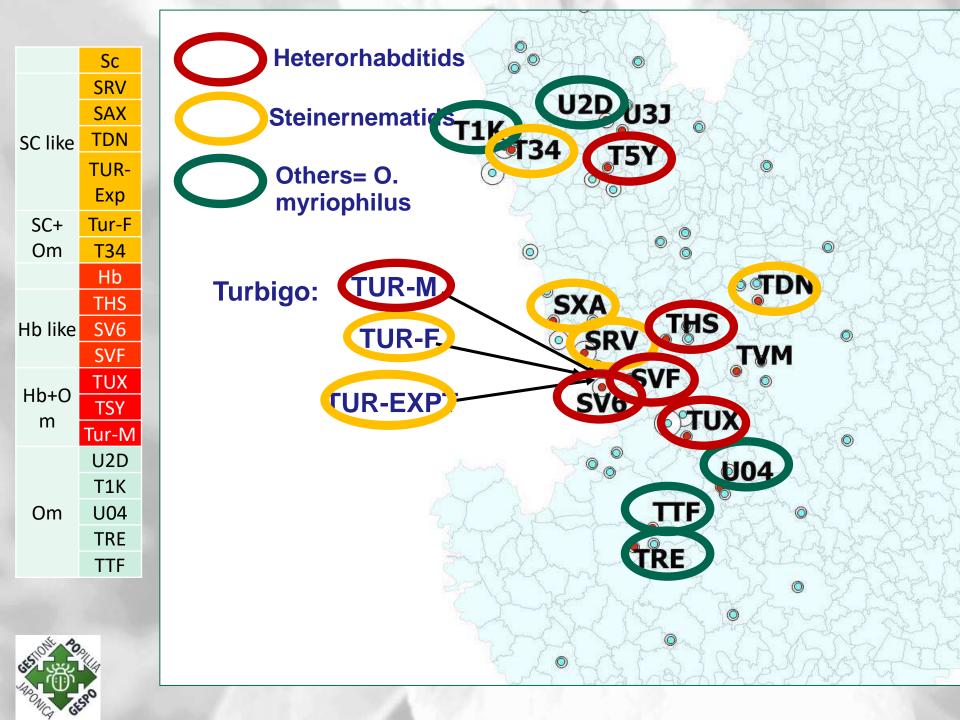




Identification- Taxonomic and Molecular

In Progress in Bari



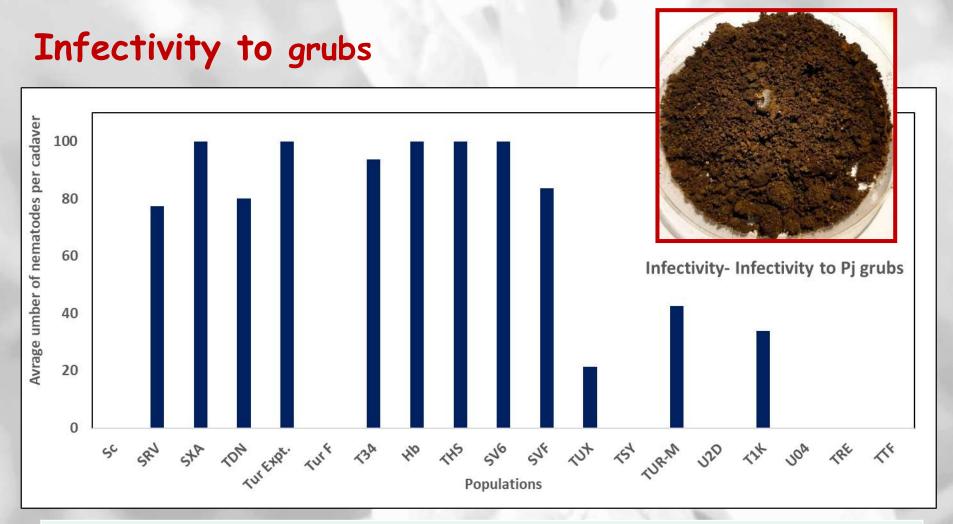


Nematode characterization

- Infectivity Endurance
- Dose response Heat tolerance
- □ Invasion rate □ Desiccation tolerance

Efficacy against grubs of P. japonica





Protocol- Grubs were collected from the infested area (1st and 2nd instars). Individual grubs were exposed in petri dishes, containing moist soil, to the different nematode populations. The nematodes were applied in 1 ml water at concentration of 1,000 IJ per dish. The dishes were placed at 25°C for 11 or 10 days before the mortality of grubs was determined.



Infectivity to grubs





Live









merry Christmas

Grazie mille per la vostra attenzione