



35th

*Symposium of the European
Society of **Nematologists***

*Cordoba, Spain
15-19 April, 2024*



Organize:

European
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Nematologists

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Welcome

Dear colleagues,

It is a pleasure to announce the upcoming 35th International Symposium of the European Society of Nematologists, to be held in Córdoba (Spain) by 15-19 April 2024. A unique opportunity to exchange Nematology knowledge with the scientific and stakeholder communities.

Two years have passed since our last symposium in Antibes (France) and some changes have arisen since then. Next year we will have the opportunity to know how to face these challenges. Scientific sessions will include hot topics based on Nematology Research and applications around the world:

- Nematode Taxonomy, Systematics and Diagnosis
- Nematode Phylogeny, Phylogeography and Phylogenomic
- Biodiversity, Distribution and Ecology of PPN, EPN, and free-living
- Plant-nematode interactions and host response
- Nematode omics, metabolism and physiology
- Marine and Freshwater nematodes / Animal parasites
- Entomopathogenic nematodes
- Management of plant-parasitic nematodes
- Nematodes as bioindicators and nematode community assemblies
- Nematode effectors and parasitism genes
- Nematode interactions with other organisms: Complex diseases and Biocontrol
- New nematicidal products: Botanicals and Agrochemicals
- Cultural management of PPN: Cover crops, organic amendments, ASD
- Role of soil microbiome in nematode suppression
- Quarantine Nematodes: Diagnostics and management.

We look forward to seeing you all during the upcoming 35th International Symposium of the European Society of Nematologists in Cordoba, Spain. April 2024.

The Local Organizing Committee

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- Lee Robertson [INIA-CSIC]
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231. Monitoring of *Bursaphelenchus xylophilus* and focus on *B. abietinus* in the Italian territory

Sara Amoriello¹, Leonardo Marianelli¹, Giuseppe Mazza¹, Stefania Simoncini¹, Francesco Paoli¹, Pio Federico Roversi¹, Giulia Torrini¹

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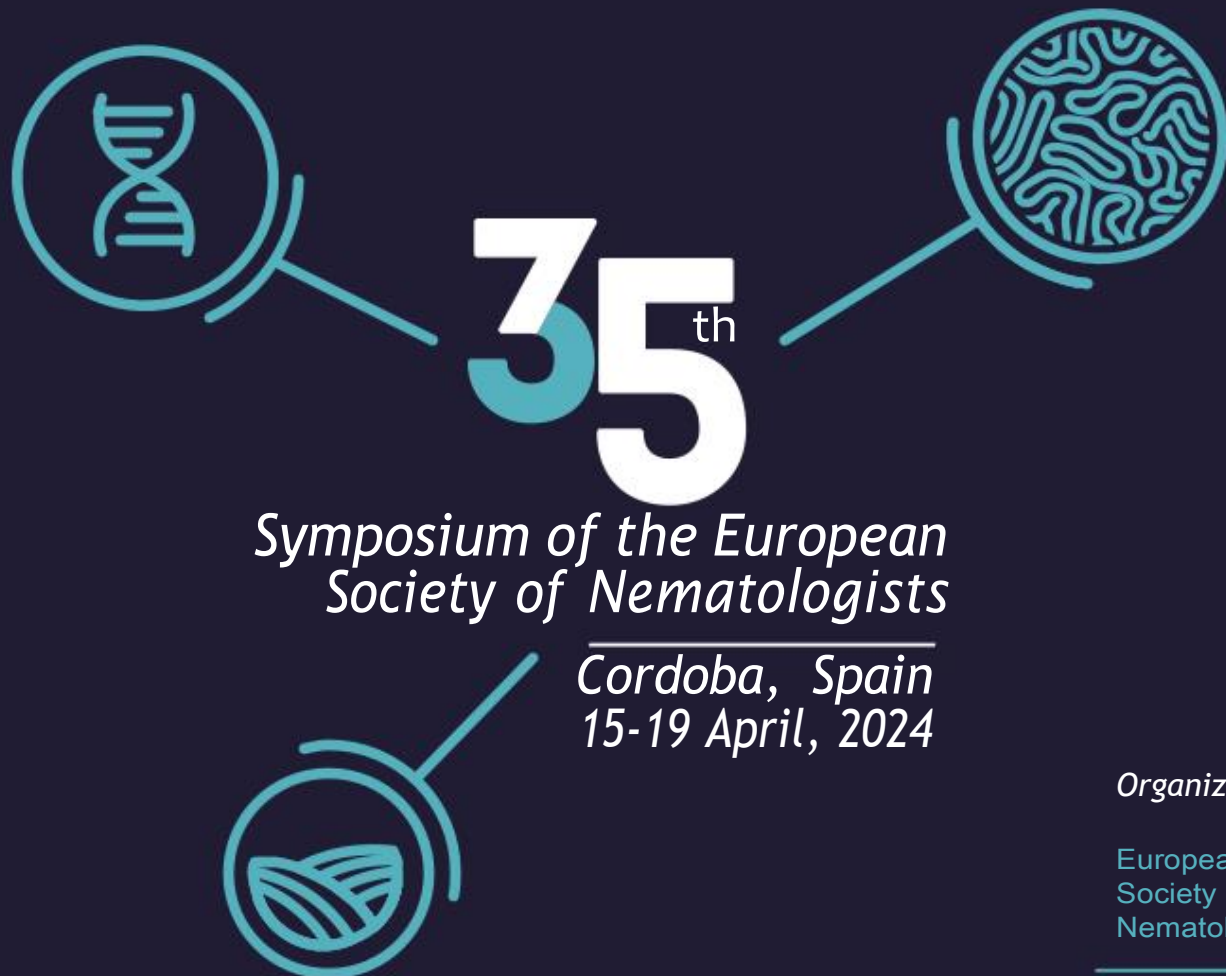
ABSTRACT:

The pinewood nematode (PWN), *Bursaphelenchus xylophilus*, is one of the most important phytosanitary problems in conifers worldwide, as it can infest most *Pinus* species and other conifers, causing rapid wilting of the trees. It has been included in the EPPO A2 list as a quarantine organism and classified as a priority pest in the EU due to its serious potential economic, environmental and/or social impact (Regulation 2019/1702/EU).

The risk of introduction and spread of PWN in Italy is high due to the intensive trade between the countries where the organism occurs and the availability of a wide range of susceptible hosts, as well as the presence of its vector on the Italian territory. According to the European legislation, annual phytosanitary surveillance programs are carried out to confirm the presence or absence of the pest in national coniferous forest stands.

On the Italian territory, annual monitoring includes the sampling of standing declining and dead trees, pallets and bark mulch, and vector insects through baited traps.

To date, no samples from the forest have tested positive for *B. xylophilus*, but a progressive and increasing decline in silver fir (*Abies alba*) stands has been observed for several years. More detailed investigations in these environments have made it possible to isolate numerous specimens of *Bursaphelenchus abietinus* from almost all the silver fir samples collected and analyzed. It is possible that this nematode contributes to the observed declines which, in combination with abiotic and biotic factors (e.g. temperature, drought and high density of bark beetles), can also lead to tree mortality. Further investigations on the pathogenicity of *B. abietinus* will be investigated in future studies.



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