

Workshop 6**General abstract:****Nemaplex and NINJA: Features and Uses.**

Sara Sánchez-Moreno¹ (sarasm@inia.es), Ron de Goede²

¹ *Department of Environment and Agronomy, INIA-CSIC, Madrid, Spain;* ² *Wageningen University & Research, Wageningen, The Netherlands*

In this 90-minute practical workshop, we will explore the Nemaplex and NINJA on-line tools to analyze and comprehend different ecological attributes of soil nematode communities. Attendants interested in soil food web ecology will have the opportunity to learn through play and perform hands-on practice with the different features provided by Nemaplex and NINJA and work with their own datasets if desired. Participants will require a laptop computer with internet access in order to complete the hands-on exercises (see 3.b). If desired, participant may bring their own data to complete their own analyses (data should be formatted according to the instructions at <https://shiny.wur.nl/ninja>).

PhD students and early-career scientist are especially welcome!

Agenda:

- **Briefly review of the origins and evolution of Nemaplex** (<http://Nemaplex.ucdavis.edu>) **from around 1979 to the present day.**
Howard Ferris
- **Demonstration of the features and navigation of the Nemaplex website**, including how to retrieve information on the characteristics, taxonomy, and ecology of plant-parasitic and free-living nematodes, exploring databases, field and laboratory methodologies, techniques, and teaching resources.
- **Demonstrations of the use of NINJA Faunal Analysis feature to evaluate the ecosystem and soil food web conditions suggested by specific nematode assemblages.** Participants will be split in two groups that will by various means (a. NemaNINJA card game; b. NINJA online internet tool) gain experience on how to analyze and interpret ecological data for monitoring, management and policy guidance. User-feedback and suggestions on the design and future development of Nemaplex and NINJA will be welcome.