

## INVITATION

# NemDetect Workshop

**17 January 2023 at 10 CET**

### Online event

Link and passcode on Zoom:

<https://us06web.zoom.us/j/84168261175?pwd=L1Frais0NG9BTWs1RGhBZHREZmVRZz09>

Meeting ID: 841 6826 1175

Passcode: 451449



## PROGRAMME

### Part 1: Introduction to nematodes

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- 10:00     *Project NemDetect*  
           Uroš Žibrat, Agricultural Institute of Slovenia
- 10:20     *Introduction to plant parasitic nematodes (PPN)*  
           Nicole Viaene, ILVO Vlaanderen, BE
- 10:40     *Distribution and spread of root knot (RKN) and potato cyst (PCN) nematodes*  
           Saša Širca, Agricultural Institute of Slovenia
- 11:00     *Methods of nematode detection*  
           Barbara Gerič Stare, Agricultural Institute of Slovenia
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## **Part 2: Introduction to remote sensing**

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- 11:20     ***Basics of remote sensing***  
Uroš Žibrat, Agricultural Institute of Slovenia
- 11:40     ***Sensing and sensors, from handheld to satellite***  
Matej Knapič, Agricultural Institute of Slovenia
- 12:00     ***High-throughput phenotyping***  
Ankush Prashar, University of Newcastle, UK
- 12:20     ***Spectral imaging data processing***  
Janez Lapajne, Agricultural Institute of Slovenia

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*20-minute break*

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## **Part 3: Examples of plant disease and stress detection using remote sensing**

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- 13:00     ***Plant stress detection using multispectral imaging***  
Jonathan Van Beek, ILVO Vlaanderen, BE
- 13:20     ***Non-invasive detection of plant parasitic nematodes using remote sensing systems***  
Andrej Vončina, Agricultural Institute of Slovenia
- 13:40     ***Quantitative assessment of soybean cyst nematode infections***  
Enrico Bonello, Ohio State University, US
- 14:00     ***Detection of nematode infections in potato tubers***  
Jonathan Van Beek, ILVO Vlaanderen, BE
- 14:20     ***Multimodal nematicidal and plant growth-promoting effects of *Bacillus firmus* I-1582***  
Nik Susič, Agricultural Institute of Slovenia

## **Part 4: Using RS on your own**

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- 14:40     ***Guidelines for implementing remote sensing in plant protection assessment schemes***  
Uroš Žibrat, Agricultural Institute of Slovenia
- 15:00     ***Wrap up and discussion***  
All participants