

József Fail Ph.D.

associate professor and director of institute

Contact

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Area of Expertise

Integrated Pest Management of insects and mites affecting vegetables and other horticultural crops; biological control; insect monitoring; plant resistance; ecology of Thysanoptera

Research

The general focus of our research program is to develop sustainable insect management strategies for vegetables and other horticultural crops, using a sound understanding of insect ecological principles. This broad focus allows us the opportunity to work simultaneously in basic and applied areas on a number of important arthropod pests. Our program works with presently available strategies and helps incorporate them into pest management programs, and develops new strategies for the future. Examples of projects include: understanding and modifying ecological factors that influence the risk of infestation; incorporating biological control into insect management strategies; studying mechanisms of host plant resistance and working with companies to develop resistant germplasm; developing improved insect monitoring strategies for IPM.

The current special focus of our research program is the ecology of the onion thrips (*Thrips tabaci* LINDEMAN 1889) species complex.

Courses Taught

In English: INTKT RT001 Applied Entomology

Co-taught in English:

3NK06NAK03B Integrated Pest Management and Weed Science

3RT07NAK01B Applied Entomology

NVVED039N Basics of Plant Protection Zoology

In Hungarian: 3RT07NAK08M Biological Control

3RT07NAK11M Animal Pests of Vegetable and Ornamental Crops

3RT07NAK16M Industrial Plant Protection

3RT07NAK26M Plant Protection in Ecological Farming

NVVED098N Environmentally-friendly Management of Horticultural Pests

Co-taught in Hungarian:

3RT07NAK05M Identification and Forecast of Pests

3RT07NAK01B Applied Entomology

3NK06NAK03B Integrated Pest Management and Weed Science

Extension and Outreach

Our extension program focuses on helping growers implement sustainable IPM strategies and educating the public about agricultural issues, including biological control and up to date pest management practices.

Hungarian Scientific Bibliography

<https://m2.mtmt.hu/api/publication?cond=authors;in;10001356&cond=category.mtid;in;1,2,3,4,5,6,7&page=1&labelLang=eng>)

Hungarian Doctoral Council

https://doktori.hu/index.php?menuid=192&sz_ID=3758&lang=EN