Dr. Rita Bán

Year of birth: 1970

Education: Pannon University of Agricultural Sciences (BSc in Agriculture /1992/, MSc in Plant Protection /1994/
Gödöllő University of Agricultural Sciences (now: Szent István University) (MSc in Agricultural teaching /1997/)

Current employer: lecturer (Szent István University, Institute of Plant Protection)

Current position: associate professor

Scientific titles: PhD

Teaching experience: 20 years in undergraduate and 17 years in postgraduate education at Szent István University, Institute of Plant Protection

Courses thought:
MSc : Field Crop Diseases, Diagnostic Techniques in Plant Pathology, Post harvest diseases and protection

English language teaching experience: Introduction to Plant Pathology (for students BSc in Agriculture)

Other education activity: organizer of courses in Plant Protection

Scientific achievements:

- Epidemiology of pathogenic fungi of the common reed (*Phragmites australis*) and pathogenic aspects of reed decline.
- Systemic induced resistance against sunflower downy mildew (*Plasmopara halstedii*) and white rot (*Sclerotinia sclerotiorum*). Examination of the efficacy of different inducers (BTH, BABA, DCINA and mycorrhiza fungi) on sunflower diseases.
- Pathotype identification of *Plasmopara halstedii* in Hungary.

The most important ongoing research projects:

- Comparative analysis of genetic and induced resistance to downy mildew (*Plasmopara halstedii* [Farl.) Berl. & de Toni) and white rot (*Sclerotinia sclerotiorum* [Lib.] de Bary) in sunflower
- Identification of pathotypes of sunflower downy mildew in Hungary
- Efficacy of some fungicides in winter wheat (EuroWheat project)

Some relevant publications:

R. Bán - A. Kovács - M. Perczel - K. Körösi - Gy. Turóczi (2014): First report on the increased distribution of pathotype 704 of *Plasmopara halstedii* in Hungary. Plant Disease 98 (6): 844.1-844.1 (doi.org/10.1094/PDIS-09-13-0920-PDN) (IF: **2,74**).

R. Bán - A. Kovács - K. Körösi - M. Perczel- Gy. Turóczi (2014): First report on the occurrence of a new pathotype, 714, of *Plasmopara halstedii* (sunflower downy mildew) in Hungary. Plant Disease 98 (11): 1580. (IF: **2,74**).

Bán, R. – Kovács, A. – Perczel, M., Kiss, J., Körösi, K. – Turóczi, Gy. (2014): A napraforgó-peronoszpóra (*Plasmopara halstedii* (Farl.) Berl. et de Toni) újabb patotípusainak megjelenése és terjedése Magyarországon [The occurrence and spreading of new pathotypes of sunflower downy mildew (*Plasmopara halstedii* (Farl.) Berl. et de Toni) in Hungary]. Növényvédelem (50) 10: 453-459.

L.N. Jørgensen, M.S. Hovmøller, J.G. Hansen, P. Lassen, B. Clark, R. Bayles, B. Rodemann, K. Flath, M.Jahn, T. Goral, J. Czembor, Ph. Cheyron, C. Maumene, C. De Pope, R. Ban, G.C. Nielsen and G. Berg (2014): IPM Strategies and Their Dilemmas Including an Introduction to www.eurowheat.org. Journal of Integrative Agriculture 13 (2): 265-281. (IF: **0,62**)

K. Körösi, R. Bán, B. Barna, F. Virányi (2011): Biochemical and Molecular Changes in Downy Mildew-infected Sunflower Triggered by Resistance Inducers. Journal of Phytopathology 159: 471-478 (2012 IF**: 0,79**).

V.P. Vasileiadis - M. Sattin - S. Otto - A. Veres - Z. Palinkas - R. Ban - X. Pons - P. Kudsk - R. van der Weide - E. Czembor - A.C. Moonen - J. Kiss (2011): Crop protection in European maize-based cropping systems: Current practices and recommendations for innovative Integrated Pest Management. Agricultural Systems 104: 533-540 (doi: 10.1016/j.agsy. 2011.04.002) (IF: **2,89**)

Bán, R. – Engloner, A.I. – Virányi, F. (2000): Occurrence of fungal pathogens in relation to reed quality. Zeitschrift für Pflanzenkrankheiten und Pflanzenschutz 107 (3): 258-266. **IF: 0,45**

Memberships, functions: Hungarian Mycological Society, International Sunflower Association.

International partnerships, collaborations: Justus Liebig University (Germany), Palacký University in Olomouc, Department of Botany (Czeh Republic)