

## Ivana Vico, Full professor

University of Belgrade-Faculty of Agriculture  
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### Education

|                                      |                                                |
|--------------------------------------|------------------------------------------------|
| 1997. Ph.D. Biotechnology            | University of Belgrade, Faculty of Agriculture |
| 1992. M.S. Biotechnology             | University of Belgrade, Faculty of Agriculture |
| 1987. B.S. Plant and food protection | University of Belgrade, Faculty of Agriculture |

### Academic career

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|--------------------------|------------------------------------------------|
| 2018 Full professor      | University of Belgrade, Faculty of Agriculture |
| 2013 Associate professor | University of Belgrade, Faculty of Agriculture |
| 2001 Assistant Professor | University of Belgrade, Faculty of Agriculture |
| 1993 Assistant           | University of Belgrade, Faculty of Agriculture |
| 1989 Teaching assistant  | University of Belgrade, Faculty of Agriculture |

Scientific field Plant pathology  
<https://orcid.org/0000-0002-4609-4722>

### Publications

Published 178 articles in national and international Journals and Symposium and Congress Proceedings (presented some selected references) –h index Scopus – 13.

Selected references:

1. Duduk, B., Stepanović, J., Franova, J., Zwolińska, A., Rekanović, E., Stepanović, M., Vučković, N., Duduk, N., **Vico, I.** (2024): Geographical variations, prevalence, and molecular dynamics of fastidious phloem-limited pathogens infecting sugar beet across Central Europe. PLoS ONE 19(7): e0306136.
2. Vojvodić, M., Lazić, D., Pešić, B., Mitrović, P., **Vico, I.**, Bulajić, A. (2024): Specific detection of *Waitea circinata* var. *zeae* using conventional and real-time PCR. Journal of Plant Diseases and Protection 131: 1747–1753.
3. Duduk, N., **Vico, I.**, Kosovac, A., Stepanović, J., Ćurčić, Ž., Vučković, N., Rekanović, E. and Duduk, B. (2023): A biotroph sets the stage for a necrotroph to play: ‘*Candidatus* Phytoplasma solani’ infection of sugar beet facilitated *Macrophomina phaseolina* root rot. Frontiers in Microbiology 14:1164035.
4. Vučković, N., **Vico, I.**, Duduk, B., Duduk, N. (2022): Diversity of Botryosphaeriaceae and *Diaporthe* species associated with postharvest apple fruit decay in Serbia. Phytopathology 112: 929-943.
5. Vasić, M., **Vico, I.**, Jurick, W. M., Duduk, B., Duduk, N. (2022): The dual nature of *Lambertella corni-marisi* as an apple fruit pathogen and antagonist of *Monilinia* spp. Mycological Progress 21: 1-11.
6. Žebeljan A. , **Vico I.**, Duduk N., Žibera B., Urbanek Krajnc A. (2021): Profiling changes in primary metabolites and antioxidants during apple fruit decay caused by *Penicillium crustosum*. Physiological and Molecular Plant Pathology 113: 101586.

7. Žebeljan, A., Duduk, N., Vučković, N., Jurick, W.M. II, **Vico, I.** (2021): Incidence, speciation, and morpho-genetic diversity of *Penicillium* spp. causing blue mold of stored pome fruits in Serbia. *Journal of Fungi* 7(12):1019.
8. Vojvodić, M., Tanovic, B., Mitrovic, P., **Vico, I.**, Bulajic, A., (2021). *Waitea circinata* var. *zeae* causing root rot of cabbage and oilseed rape. *Plant Disease* 105: 787-796.
9. Duduk B., Duduk N., **Vico I.**, Stepanović J., Marković T., Rekanović E., Kube M., Radanović D. (2019): Chamomile floricolous downy mildew caused by *Peronospora radii*. *Phytopathology* 109: 1900-1907.
10. Žebeljan, A., **Vico I.**, Duduk N., Žiberna B., Urbanek Krajnc, A. (2019): Dynamic changes in common metabolites and antioxidants during *Penicillium expansum*-apple fruit interactions. *Physiological and Molecular Plant Pathology* 106:166-194.
11. Vasić, M., **Vico, I.**, Jurick, W. M. II, Duduk, N. (2018): Distribution and characterization of *Monilinia* spp. causing apple fruit decay in Serbia. *Plant Disease* 102: 359-369.
12. Janisiewicz, W. J., Jurick, W. M. II, **Vico, I.**, Peter, K. A., Buyer, J. S. (2013): Culturable bacteria of plums and their potential for control of brown rot after harvest. *Postharvest Biology and Technology*, 76: 145 - 151.
13. Janisiewicz, W. J., Biggs, A. R., Jurick, W. M. II, **Vico I.**, Conway, W. S. (2013): Biological characteristics of *Monilinia fructicola* isolates from stone fruits in eastern West Virginia. *Canadian Journal of Plant Pathology* 35: 315-327.
14. Jurick, W. M. II, **Vico, I.**, Gaskins, V. L., Whitaker, B. D., Garret, W. M., Janisiewicz, W. J., Conway, W. S. (2012): *Penicillium solitum* produces a polygalacturonase isozymes in decayed “Anjou” pear fruit capable of macerating host tissue *in vitro*. *Mycologia* 104: 604 - 612.
15. Jurick, W. M. II, Janisiewicz, W. J., Saftner, R. A., **Vico, I.**, Gaskins V. L., Park, E., Forsaline, P. L., Fazio, G., Conway, W. S. (2011): Identification of wild apple germplasm (*Malus* spp.) accessions with resistance to the postharvest decay pathogens *Penicillium expansum* and *Colletotrichum acutatum*. *Plant Breeding* 130: 481-486.
16. Jurick, W. M. II, **Vico, I.**, Gaskins, V. L., Garrett, W. L., Whitaker, B. D., Janisiewicz, W. J., Conway, W. S. (2010): Purification and biochemical characterization of polygalacturonase produced by *Penicillium expansum* during postharvest decay of ‘Anjou’ pear. *Phytopathology* 100: 42-48.
17. **Vico, I.**, Jurick, W. M. II, Camp, M. J., Janisiewicz, W. J., Conway, W. S. (2010): Temperature suppresses decay on apple fruit by affecting *Penicillium solitum* conidial germination, mycelial growth and polygalacturonase activity. *Plant Pathology Journal* 9:129-133.
18. Jurick, W. M. II, **Vico, I.**, McEvoy, J. L., Whitaker, B. D., Janisiewicz, W., Conway, W. S. (2009): Isolation, purification, and characterization of a polygalacturonase produced in *Penicillium solitum* - decayed ‘Golden Delicious’ apple fruit. *Phytopathology* 99: 636-641.
19. Krstić, B., **Vico, I.**, Tošić, M., Stojanović, G. (1997): Peroxidase isoenzymes in strawberry roots infected with binucleate *Rhizoctonia* spp. and their implication in disease resistance. *Journal of Phytopathology* 145: 429-435.
20. **Vico, I.** (1994): Investigation of anastomosis groups of binucleate *Rhizoctonia* spp. isolated from strawberries. *Phytopathologia Mediterranea* 33: 165-167.

### **Books**

1. **Vico I.**, Nataša Duduk N. (2020): Postžetvena patologija, Univerzitet u Beogradu – Poljoprivredni fakultet, Beograd. (Post-harvest Pathology, University of Belgrade - Faculty of Agriculture, Belgrade).
2. **Vico I.** (2018): Fitopatologija, Univerzitet u Beogradu – Poljoprivredni fakultet, Beograd. (Plant Pathology, University of Belgrade -Faculty of Agriculture, Belgrade.)
3. **Vico I.**, Jurick, II W. M. (2012): Postžetvena patologija biljaka i biljnih proizvoda, Univerzitet u Beogradu – Poljoprivredni fakultet, Beograd (Post-harvest Pathology of Plants and Plant Products, University of Belgrade -Faculty of Agriculture, Belgrade.)

### **Patents**

- 2022 Duduk B., Duduk N., Vico I., Stepanović J., Marković T., Rekanović E., Radanović D. (2022): Nova tehnologija zaštite kamilice od novog ekonomski značajnog patogena *Peronospora radii*. (New technology in control of *Peronospora radii* in chamomile)

### **Specialization and trainings**

- 1990 International Work Group on Sugar Beet Diseases and Pests, Einbeck, Germany;
- 1991 Scottish Crop Research Institute, Dundee, Scotland,
- 2007-2012 Visiting scientist, Food Quality Laboratory, Plant Sciences Institute, ARS-USDA, Beltsville, Maryland, USA;
- 2010 International Workshop Biological Control of Postharvest Diseases: Challenges and Opportunities, Leesburg, VA.
- 2012 Bay Area Fruit School, University of Maryland Extension, Wye Research and Education Center, Queenstown, MD. Genetic Improvement for Plant Resistance, Training mobility framework ref. n. 3.12., Belgrade, Serbia, October 1st–5th, 2012.
- 2013 Clinical Field and Lab Plant Disease Diagnosis, Biological Control and Specimen Collection, Training mobility framework ref. n. 3.24., Novi Sad, Serbia, July 3rd–6th, 2013.
- 2015 Mycotoxins in Various Food Matrix, 10th November, 2015.
- 2016 Building capacity of Serbian agricultural education to link with society - Tempus, CaSA,
- 2023 BTSF Plant Disease Outbreaks and Contingency Planning, CPPD), Lisbon, Portugal 13- 16 June 2023;  
Plant health controls (Phase II) Course 3a Identification and control of outbreaks of harmful organisms: agriculture and horticulture (HO-AH)” Alicante, Spain, 24-27 Oct. 2023.

### **Mentoring**

- 2023 Jelena Luković, defended PhD thesis: Antifungal activity of medicinal and aromatic plant essential oils against *Trichoderma* species - edible mushroom pathogens;
- 2024 Aleksandra Žebeljan, defended PhD thesis: Etiology of blue mold of pome fruits in Serbia and physiological changes in infected apple fruit;
- 2022 Sara Mikić, submitted PhD thesis: Basil leaf spot - characterization of the causal agent and disease impact on yield, content and quality of essential oil;

2018 Nina Vučković, submitted PhD thesis: Phytopathogenic fungi from the families Botryosphaeriaceae and Diaporthaceae as causal agents of apple fruit rot in Serbia.

### **Research Projects (Grants)**

2007-2012 Improved Knowledge of Virulence Factors to Develop Postharvest Decay Control Strategies“- (1275-42430-010-00; 2007-2012), NP 303, Plant Diseases, Food Quality Laboratory, USDA;  
Methods for Rapid Identification and Functional Analysis of Fungi Causing Postharvest Decay of Pome Fruit“ (1275-42430-008-00D; 2012-2017),  
2011 - Ministry of education, science and technological development: Razvoj integrisanih sistema upravljanja štetnim organizmima u biljnoj proizvodnji sa ciljem prevazilaženja rezistentnosti i unapređenja kvaliteta i bezbednosti hrane  
2012 Identification of fungi causing postharvest decay of apple fruit during storage in Pennsylvania with implications for decay management. State Horticultural Association of Pennsylvania. (PAMP-13) - SHAP Research Committee funding  
2013 – 2016 Building capacity of Serbian Agricultural Education to link with Society, (CaSa). TEMPUS 544072-TEMPUS-1-2013-1-RS-TEMPUS –SHEMES 4604  
2021-2024 Rubbery Taproot Disease of Sugar Beet: Etiology, Epidemiology, and Control - SUGARBETY, IDEAS,7753882, Science fund of Republic of Serbia.

**Membership** of Editorial boards: Phytopathology, An International Journal of the American Phytopathological Society, USA (2018 -2021); Journal of Agricultural Sciences Belgrade; Frontiers in Microbiology (specialty section: Microbe and Virus Interactions with Plants).  
Member of Plant Protection Society of Serbia.

Fluent in English.