

CURRICULUM VITAE

Name: Tamara Janakiev

Born: 25th of January 1989, Belgrade, Serbia

Academic and professional career:

2013 - Graduated in Biology, Molecular biology and Physiology, Faculty of Biology, University of Belgrade, Serbia.

2014 - MSc in Molecular biology and Physiology, Module: Microbiology. Master thesis entitled “Determination of antimicrobial potential of resins from the buds of some woody plants on selected pathogenic bacteria” was done at the Department of Microbiology, Faculty of Biology University of Belgrade, Serbia.

2019 - PhD in Biology, Module: Microbiology, Faculty of Biology, University of Belgrade, Serbia. PhD thesis entitled “Plum microbiome (*Prunus domestica* L.) and potential of selected isolates for biocontrol of plum phytopathogens” was done at the Department of Microbiology, Faculty of Biology University of Belgrade, Serbia.

Institution where working with status and address:

2015 – 2017 – Research Trainee, Department of Microbiology

2017 – 2020 – Research Assistant, Department of Microbiology

2020 – – Research Associate, Department of Biochemistry and Molecular Biology

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In the period 2015 – 2020 was participated in practical part of the teaching on Undergraduate academic studies within the course Microbiology and Microbiological Practicum, Master academic studies within the course Methods in Microbiology, at the Department of

Microbiology, Faculty of Biology University of Belgrade. She is also teaching assistant at the Petnica Scientific Centre.

Membership in scientific societies:

Serbian Society for Microbiology
Serbian Biological Society
Serbian Genetic Society
Serbian Society for Molecular Biology
Federation of European Microbiological Societies

National research projects - participant:

2015. – 2019. "Molecular characterization of bacteria from genera *Bacillus* and *Pseudomonas* as potential agents for biological control" (Fundamental research project – grant No.: 173026, Ministry of Education, Science and Technological Development of the Republic of Serbia).

International research projects - participant:

2016. – 2018. "Arbutus unedo L. as a natural approach for controlling urinary tract infections", bilateral project between Croatia and Serbia in the field of Science and Technology.

2018. – 2019. "New approach: natural products as potential agents for the control of olive scab disease", bilateral project between Slovenia and Serbia.

2020. – 2022. "New approaches for biocontrol of the novel group of plant tumorigenic agrobacteria discovered in Serbia and Germany" funded by Serbian Science and Diaspora Collaboration Program (Knowledge Exchange Vouchers)

2020. – 2022. "Novel biocides for cultural heritage of Southeast Europe – biocontrol and biomimetic systems for preservation of old masterpieces", bilateral project between Slovenia and Serbia.

Projects from the research and development sector financed from external funds – participant:

2020 – 2020 Hydrogels with synthesized lignin oligomers as antimicrobial substances and wound healing agents, Technology Transfer Program 1075, Innovation Fund of the Republic of Serbia. Task: *In vitro* tests of antibacterial and antibiofilm activity.

- 2020 – 2020 New antivirus agent, Technology Transfer Program 1077, Innovation Fund of the Republic of Serbia. Task: Testing antimicrobial activity.
- 2021 – 2021 Natural, non-alcoholic propolis extracts for the prevention of upper-respiratory-tract infections and immune system boost in children, Project ID 5699, Proof of Concept, Innovation Fund of the Republic of Serbia. Task: Biological activity (antimicrobial and immunomodulatory activities).
- 2020 – 2021 Monitoring of bacterial communities during the main phenophases of maize growth by metagenomic approach, FERTICO DOO, Nitrogenous Fertilizer Manufacturing Enterprise
- 2021 – 2021 Metabarcoding analysis of bacterial communities in biofertilizer samples, Project ID 868, Innovation Fund of the Republic of Serbia, Science Technology Park Belgrade and company A.W.S. Impex d.o.o. Belgrade.
- 2021 – 2021 In situ and in planta assays with biocontrol and biofertilizers products, Project ID 1006, Innovation Fund of the Republic of Serbia, Science Technology Park Belgrade and company A.W.S. Impex d.o.o. Belgrade.
- 2021 – 2021 Analysis of the effects of the treatment with non-aggressive disinfectants on microbial diversity, Project ID 1039, Innovation Fund of the Republic of Serbia, Science Technology Park Belgrade and company Bike Zone, Belgrade.
- 2021 – 2023 Development and application of new agricultural products based on bacterial endophytic and epiphytic inoculants, biofertilizers and biocontrol agents in sustainable agriculture, FERTICO D.O.O., Nitrogenous Fertilizer Manufacturing Enterprise, [Contract No.: 749/1-23.06.2021]

Awards:

2020 - Certificate for the best paper for young scientist in the school year 2019/2020 at the Faculty of Biology University of Belgrade- Janakiev, T., Dimkić, I., Unković, N., Ljaljević Grbić, M., Opsenica, D., Gašić, U., Stanković, S., Berić, T. 2019. Phyllosphere fungal communities of plum and antifungal activity of indigenous phenazine-producing *Pseudomonas synxantha* against *Monilinia laxa*. *Frontiers in microbiology*, 10, 2287.

Reviewing scientific journals:

Food Microbiology (ISSN 0740-0020), Microbial Pathogenesis (ISSN 0882-4010), FEMS Microbiology Ecology (ISSN 1574-6941), Brazilian Journal of Botany (ISSN 1806-9959), Journal of Applied Microbiology (ISSN 1364-5072), Botanica Serbica (ISSN 1821-2158), AIMS Environmental Science (ISSN 2372-0352)

Sholarships, international scientific collaboration and mobility:

- Grant winner (Grant for Young Scientists) for participation at the 10th Balkan Congress of Microbiology – Microbiologia Balkanica 2017, in Sofia, Republic of Bulgaria (2017)

- November 2018 and June 2019 – The Faculty of Mathematics, Natural Sciences and Information Technologies, University of Primorska, Department of Applied Natural Sciences, Slovenia. Experimental work on a joint bilateral project "New approach: natural products as potential agents for the control of olive scab disease", Intergovernmental program of scientific and technological cooperation between Slovenia-Serbia joint project in Science and Technology.
- June 2021 - Federal Research Center Julius Kuhn Institute, Institute of Epidemiology and Pathogen Diagnostics, Braunschweig, Germany, experimental work on a project within the Serbian Science and Diaspora Collaboration Program (Knowledge Exchange Vouchers) - "New approaches for biocontrol of the novel group of plant tumorigenic agrobacteria discovered in Serbia and Germany"
- July – September 2021 - Federal Research Center Julius Kuhn Institute, Institute for Plant Protection in Horticulture and Forestry, Braunschweig, Germany. Postdoctoral training visit, scholarship from the Ministry of Education, Science and Technological Development.
- October 2021 – Institute for the Protection of Cultural Heritage of Slovenia, Ljubljana, Slovenia, on a bilateral project „Novel biocides for cultural heritage of Southeast Europe – biocontrol and biomimetic systems for preservation of old masterpieces”.

Invitation lecture:

31.05.2021 - Lecture entitled "Microbiome of domestic plum varieties and the potential of indigenous isolates for biological control of plum pathogens" on the occasion of the 74th anniversary of the Institute for Biological Research "Sinisa Stankovic" - Institute of National Importance for the Republic of Serbia, University of Belgrade.

List of publications:

- 1) Šaraba, V., Dragišić, V., **Janakiev, T.**, Obradović, V., Čopić, M., Knežević, B., Dimkić, I. (2022). Bacteriome composition analysis of selected mineral water occurrences in Serbia. *Archive of Biological Sciences*. 74(1):67-79.
- 2) Dimkić, I., **Janakiev, T.**, Petrović, M., Degrassi, G., Fira, D. (2022). Plant-associated *Bacillus* and *Pseudomonas* antimicrobial activities in plant disease suppression via biological control mechanisms - A review. *Physiological and Molecular Plant Pathology*. 117, 101754.
- 3) Dimkić, I., Fira, Dj., **Janakiev, T.**, Kabić, J., Stupar, M., Nenadić, M., Unković, N., Ljaljević Grbić, M., 2021. The microbiome of bat guano: for what is this knowledge important? *Applied Microbiology and Biotechnology*. 105(4), 1407–1419

- 4) **Janakiev, T.**, Unković, N., Dimkić, I., Ljaljević Grbić, M. Stević, T., Stanković, S., Berić, T. (2020). Susceptibility of Serbian plum cultivars to indigenous bacterial and *Monilinia laxa* isolates. *Botanica Serbica*. 44 (2): 203-210.
- 5) **Janakiev, T.**, Dimkić, I., Bojić, S., Fira, D., Stanković, S., Berić, T. (2020). Bacterial communities of plum phyllosphere and characterization of indigenous antagonistic *Bacillus thuringiensis* R3/3 isolate. *Journal of applied microbiology*. 128, 528-543.
- 6) **Janakiev, T.**, Dimkić, I., Unković, N., Ljaljević Grbić, M., Opsenica, D., Gašić, U., Stanković, S., Berić, T. (2019). Phyllosphere fungal communities of plum and antifungal activity of indigenous phenazine-producing *Pseudomonas synxantha* against *Monilinia laxa*. *Frontiers in microbiology*. 10, 2287.
- 7) Radulović, O., Petrić, M., Raspor, M., Stanojević, O., **Janakiev, T.**, Tadić, V., Stanković, S. (2019). Culture-dependent analysis of 16S rRNA sequences associated with the rhizosphere of *Lemna minor* and assessment of bacterial phenol-resistance: plant/bacteria system for potential bioremediation – Part II. *Polish Journal of Environmental Studies*. 28;(2): 1-12. DOI: 10.15244/pjoes/81687.
- 8) Berić, T., Biočanin, M., Stanković, S., Dimkić, I., **Janakiev, T.**, Fira, Đ., Lozo, J. (2018). Identification and antibiotic resistance of *Bacillus* spp. isolates from natural samples. *Archives of Biological Sciences*. 70;(3):581-588.
- 9) Dimkić, I., Ristivojević, P., **Janakiev, T.**, Berić, T., Trifković, J., Milojković-Opsenica, D., Stanković, S. (2016). Phenolic profiles and antimicrobial activity of various plant resins as potential botanical sources of Serbian propolis. *Industrial Crops and Products*. 94, 856–871. DOI: 10.1016/j.indcrop.2016.09.065.
- 10) Dimkić, I., Stević, T., Berić, T., Nikolić, I., **Janakiev, T.**, Fira, Đ., Stanković S., 2015. *In vitro* antifungalni potencijal *Bacillus* spp. izolata kao biokontrolnih agenasa. *Lekovite sirovine*, 35, 163- 180.

Scientific publications of international significance published in Book of Abstracts:

- 1) Dimkić, I., **Janakiev, T.**, Berić, T., Ristivojević, P., Fira, D., Stanković, S., (2015). *In vitro* assessment of antibacterial activity of resins from some woody plant buds and synergistic effect between standard phenolic compounds. 6th FEMS Congress of European Microbiologists, Maastricht, Netherlands, e-Abstracts Book, FEMS-0907.
- 2) **Janakiev, T.**, Dimkić, I., Ristivojević, P., Trifković, P., Opsenica-Milojković, D., Berić, T., Stanković, S., (2015). Phenolic profile analyzes and *in situ* examination of antimicrobial activity of resins from buds of woody plants. 9th Balkan Congress of Microbiology, Thessaloniki, Greece, Abstract Book, Acta Microbiologica Hellenica, 60(3), 159, O.33.

- 3) Berić, T., Dimkić, I., Stević, T., Nikolić, I., **Janakiev, T.**, Fira, Dj., Stanković, S., (2015). *In vitro* examination of antagonistic activity and potential synergistic effects of *Bacillus* sp. lipopeptide extract and essential oils. 9th Balkan Congress of Microbiology, Thessaloniki, Greece, Abstract Book, Acta Microbiologica Hellenica, 60(3), 182, P55A.
- 4) Dimkić, I., Berić, T., Stević, T., Šević, D., Ivanović, Ž., Živković, S., Gavrilović, V., Nikolić, I., **Janakiev, T.**, Lozo, J., Stanković, S., Fira, Dj., (2015). *Bacillus* spp. isolates – future in plant protection. III Simpozijum Biologa i Ekologa Republike Srpske (SBERS 2015), Banja Luka, Republika Srpska, Zbornik sažetaka, 43.
- 5) **Janakiev, T.**, Stević, T., Banović, R., Dimkić, I., Stanković, S., Berić, T., (2017). Diverzitet gljiva sa listova i plodova četiri sorte domaće šljive (*Prunus domestica* L.). XI Kongres mikrobiologa Srbije „Mikromed 2017”, Beograd, Zbornik radova, 196-197.
- 6) Dimkić, I., Ristivojević, P., Berić, T., **Janakiev, T.**, Nikolić, I., Fira, Đ., Stanković, S., (2017). HPTLC chromatography as ideal tool for separation a mixture of *Bacillus* lipopeptide extracts in situ. 7th FEMS Congress of European Microbiologists, Valencia, Spain, e-Abstracts Book, FEMS-0292.
- 7) **Janakiev, T.**, Dimkić, I., Fira, Đ., Stanković, S., Berić, T., (2017). Diversity of bacteria from four plum cultivars (*Prunus domestica* L.) in untreated orchard in Serbia. 10th Balkan Congress of Microbiology, Sofia, Bulgaria, e-Abstract book, 386.
- 8) **Janakiev, T.**, Dimkić, I., Stanković, S., Berić, T., (2018). Patogenost odabranih bakterijskih izolata na listovima 4 sorte domaće šljive (*Prunus domestica* L.). Drugi kongres biologa Srbije, Kladovo, Srbija, Knjiga sažetaka, 252.
- 9) **Janakiev, T.**, Unković, N., Dimkić, I., Ljaljević-Grbić, M., Stanković, S., Berić, T., (2019). *In vitro* antifungal activity of *Pseudomonas synxantha* against *Monilinia laxa*. 8th Congress of European Microbiologists (FEMS 2019), Glasgow, Scotland, Abstract Book, PM100, 402.
- 10) **Janakiev, T.**, Dimkić, I., Stanković, S., Berić, T. (2019). Bacterial community structure associated with *Prunus domestica* cultivars. 6th Congress of the Serbian Genetic Society, Vrnjacka banja, Serbia, Book of Abstracts, 262.
- 11) **Janakiev, T.**, Unković, N., Dimkić, I., Ljaljević Grbić, M., Stanković, S., Berić, T. Biocontrol potential of *Pseudomonas synxantha* P4/16_1 for suppression of brown rot disease on plum fruit. FEMS Conference on Microbiology 2020, Belgrade, Electronic Abstract Book, 181.

Scientific publications of international significance published in Proceedings:

- 1) Janačković, P., Rajčević, N., Gavrilović, M., Novaković, J., Radulović, M., Miletić, M., **Janakiev, T.**, Dimkić, I., Marin, P.D. Essential oil composition of *Ambrosia artemisiifolia* L. from Bor (Serbia), in Proceedings of the 2nd International Electronic Conference on Diversity (IECD 2022) – New Insights into the Biodiversity of Plants, Animals and Microbes, 15–31 March 2022, MDPI: Basel, Switzerland, doi:10.3390/IECD2022-12348