DOKUMENT

Meno a priezvisko	Dr. Domenico Pangallo, DrSc.
Typ dokumentu	Vedecko/umelecko-pedagogická charakteristika osoby
Názov vysokej školy	Univerzita sv. Cyrila a Metoda v Trnave
Sídlo vysokej školy	Nám. J. Herdu 2, 917 01 Trnava
Názov fakulty	Fakulta prírodných vied
Sídlo fakulty	Nám. J. Herdu 2, 917 01 Trnava

I. - Základné údaje

I.1 - Priezvisko

Pangallo

I.2 - Meno

Domenico

I.3 - Tituly

Dr., DrSc.

I.4 - Rok narodenia

1972

I.5 - Názov pracoviska

Oddelenie biológie; Fakulta prírodných vied - Univerzity Sv. Cyrila a Metoda v Trnave

I.6 - Adresa pracoviska

Nám. J. Herdu 2, 917 01 Trnava

I.7 - Pracovné zaradenie

Odborný asistent

I.8 - E-mailová adresa

domenico.pangallo@ucm.sk

I.9 - Hyperlink na záznam osoby v Registri zamestnancov vysokých škôl

https://www.portalvs.sk/regzam/detail/72546

I.10 - Názov študijného odboru, v ktorom osoba pôsobí na vysokej škole

Aplikovaná biológia

I.11 - ORCID iD

0000-0002-9115-9409

II. - Vysokoškolské vzdelanie a ďalší kvalifikačný rast

II.1 - Vysokoškolské vzdelanie prvého stupňa

II.2 - Vysokoškolské vzdelanie druhého stupňa

II.a - Názov vysokej školy alebo inštitúcie

Univerzita v Messine, Fakulta matematických, fyzikálnych a prírodných vied, Messina, Taliansko.

II.b - Rok

1998

II.c - Odbor a program

Molekulárna biológia

II.3 - Vysokoškolské vzdelanie tretieho stupňa

II.a - Názov vysokej školy alebo inštitúcie

Prírodovedecká fakulta Univerzity Komenského, Bratislava

II.b - Rok

2002

II.c - Odbor a program

Molekulárna biológia

II.4 - Titul docent

II.5 - Titul profesor

II.6 - Titul DrSc.

II.a - Názov vysokej školy alebo inštitúcie

Slovenská akadémia vied

II.b - Rok

2015

II.c - Odbor a program

Molekulárna biológia

III. - Súčasné a predchádzajúce zamestnania

III.a - Zamestnanie-pracovné zaradenie	III.b - Inštitúcia	III.c - Časové vymedzenie
Odborný asistent	Univerzita sv. Cyrila a Metoda v Trnave, Fakulta prírodných vied	01.02.2025-súčasnosť
Vedúci oddelenia	Ústav molekulárnej biológie SAV, v. v. i.	01/2009-súčasnosť
Vedecko-výskumný pracovník	Ústav molekulárnej biológie SAV, v. v. i.	10/2003-12/2008
Vedecko-výskumný pracovník	Univerzita vo Viedni, Inštitút genetiky a mikrobiológie, Viedeň, Rakúsko	09/2001-09/2003
Vedecko-výskumný pracovník	Výskumný ústav potravín, Bratislava, Slovensko	01/1999-08/2001

V. - Prehľad aktivít v rámci pedagogického pôsobenia na vysokej škole

V.1 - Prehľad zabezpečovaných profilových študijných predmetov v aktuálnom akademickom roku podľa študijných programov

V.1.a - Názov profilového predmetu	V.1.b - Študijný program	V.1.c - Stupeň	V.1.d - Študijný odbor
Laboratórne cvičenia z aplikovanej biológie II	Aplikovaná biológia	iné	biológia
Molekulárna biológia pre doktorandov	Aplikovaná biológia	iné	biológia
Environmentálna mikrobiológia	Aplikovaná biológia	iné	biológia

V.4 - Prehľad vedených záverečných prác

V.4.1 - Počet aktuálne vedených prác

V.4.a - Bakalárske (prvý stupeň)

0

V.4.b - Diplomové (druhý stupeň)

2

V.4.c - Dizertačné (tretí stupeň)

6

V.4.2 - Počet obhájených prác

V.4.a - Bakalárske (prvý stupeň)

0

V.4.b - Diplomové (druhý stupeň)

1

V.4.c - Dizertačné (tretí stupeň)

5

VI. - Prehľad výsledkov tvorivej činnosti

VI.1 - Prehľad výstupov tvorivej činnosti a ohlasov na výstupy tvorivej činnosti

VI.1.1 - Počet výstupov tvorivej činnosti

VI.1.a - Celkovo

144

VI.1.b - Za posledných šesť rokov

36

VI.1.2 - Počet výstupov tvorivej činnosti registrovaných v databázach Web of Science alebo Scopus

VI.1.a - Celkovo

144

VI.1.b - Za posledných šesť rokov

40

VI.1.3 - Počet ohlasov na výstupy tvorivej činnosti

VI.1.a - Celkovo

4733 (Google Scholar)

VI.1.b - Za posledných šesť rokov

2820 (Google Scholar)

VI.1.4 - Počet ohlasov registrovaných v databázach Web of Science alebo Scopus na výstupy tvorivej činnosti

VI.1.a - Celkovo

2985

VI.1.b - Za posledných šesť rokov

1778

VI.1.5 - Počet pozvaných prednášok na medzinárodnej a národnej úrovni

VI.2 - Najvýznamnejšie výstupy tvorivej činnosti

1.
ADC/V3 Bertelli, M., Kiani, A.K., Paolacci, S., Manara, E., Kurti, D., Dhuli, K., Bushati, V., Miertus, J., Pangallo, D., Baglivo, M. and Beccari, T., 2020. Hydroxytyrosol: A natural compound with promising pharmacological activities. *Journal of Biotechnology*, *309*, pp.29-33.

2.
ADC/V3 Puškárová, A., Bučková, M., Kraková, L., Pangallo, D. and Kozics, K., 2017. The antibacterial and antifungal activity of six essential oils and their cyto/genotoxicity to human HEL 12469 cells. *Scientific reports*, *7*(1), p.8211.

3.
ADC/V3 Pangallo, D., Šaková, N., Koreňová, J., Puškárová, A., Kraková, L., Valík, L. and Kuchta, T., 2014. Microbial diversity and dynamics during the production of May bryndza cheese. *International Journal of Food Microbiology*, *170*, pp.38-43.

4.
ADC/V3 Kraková, L., Chovanová, K., Selim, S.A., Šimonovičová, A., Puškarová, A., Maková, A. and Pangallo, D., 2012. A multiphasic approach for investigation of the microbial diversity and its biodegradative abilities in historical paper and parchment documents. *International Biodeterioration & Biodegradation*, *70*, pp.117-125.

5.
ADC/V3 Pangallo, D., Chovanova, K., Šimonovičová, A. and Ferianc, P., 2009. Investigation of microbial community isolated from indoor artworks and air environment: identification, biodegradative abilities, and DNA typing. *Canadian journal of microbiology*, *55*(3), pp.277-287.

VI.3 - Najvýznamnejšie výstupy tvorivej činnosti za ostatných šesť rokov

1.
ADC/V3 Maisto, F., Méndez, A., Pavlović, J., Kraková, L., Sanmartín, P. and Pangallo, D., 2025. Microbiome and response to cleaning and biocidal treatments on granite historical buildings using MinION sequencing. *Construction and Building Materials*, *490*, p.142589.

2.
ADC/V3 Farkas, Z., Romeo, R., Pangallo, D., Kraková, L., Giuffrè, A.M. and Sidari, R., 2025. Conversion of oleuropein to hydroxytyrosol by lactic acid bacteria fermentation of olive leaves in water solution with reduced glucose content. *World Journal of Microbiology and Biotechnology*, *41*(8), p.283.

3.
ADC/V3 Klištincová, N., Pin, L., Puškárová, A., Giannino, D., Bučková, M., Lambreva, M.D., Manfredini, A., Canfora, L., Pangallo, D. and Pinzari, F., 2024. From farm to fork: Fungal and bacterial contaminants and their diagnostics in the production steps of ready-to-eat salads. *Trends in Food Science & Technology*, *150*, p.104573.

4.
ADC/V3 Pavlović, J., Puškárová, A., Planý, M., Farkas, Z., Ruskova, M., Kvalova, K., Krakova, L., Bučková, M. and Pangallo, D., 2023. Colored stains: Microbial survey of cellulose-based and lignin rich papers. *International journal of biological macromolecules*, *241*, p.124456.

5.
ADC/V3 Kapustová, M., Puškárová, A., Bučková, M., Granata, G., Napoli, E., Annušová, A., Mesárošová, M., Kozics, K., Pangallo, D. and Geraci, C., 2021. Biofilm inhibition by biocompatible poly (ε-caprolactone) nanocapsules loaded with essential oils and their cyto/genotoxicity to human keratinocyte cell line. *International Journal of Pharmaceutics*, *606*, p.120846.

VI.4 - Najvýznamnejšie ohlasy na výstupy tvorivej činnosti

1.
Bertelli, M., Kiani, A.K., Paolacci, S., Manara, E., Kurti, D., Dhuli, K., Bushati, V., Miertus, J., Pangallo, D., Baglivo, M. and Beccari, T., 2020. Hydroxytyrosol: A natural compound with promising pharmacological activities. Journal of Biotechnology, 309, pp.29-33.
Citacie:

- Zhou, L., Shi, X., Jiang, H., Xia, Y., Yang, H., Shen, W., Cao, Y. and Chen, X., 2026. Charting the path for l-tyrosine derivatives: from engineering strategies to microbial cell factories. *Natural Product Reports*.
- Wang, L., Zhang, Y., Tao, H., Jiang, C., Chen, W., Chen, T., Luo, R., Wang, Y., Dong, J., Hu, X. and Si, W., 2026. Targeting Inflammatory Cell Death: A Strategy for Discogenic Pain Relief. *Journal of Pain Research*, p.583691.
- Guan, Q., Gao, H. and Pan, X., 2026. Therapeutic potential and mechanisms of plant metabolites in endometritis: a comprehensive review. *Frontiers in Pharmacology*, *17*, p.1818049.
- Wang, E., Wang, Y., Xu, Z., Zhang, Z., Wang, J., Jiang, Y. and Zhao, C., 2026. Hydroxytyrosol Improves UV-Induced Skin Photoaging via PI3K-AKT/MAPK/JAK-STAT and NF-κB Pathways: Insights From Keratinocytes and In Vivo Validation. *Phytotherapy Research*.
- Yi, D., Wu, Z., Li, X., Shao, B., Xiao, Y., Li, T., Zhang, X., Zhu, J., Yang, T., Deng, Y. and Huang, T., 2026. Hydroxytyrosol Prevents Metabolic-Associated Steatohepatitis by Inhibiting SOCS2-Mediated Ferroptosis in High-Fat Diet Mice. *Journal of agricultural and food chemistry*, *74*(7), pp.6265-6277.

2.
Puškárová, A., Bučková, M., Kraková, L., Pangallo, D. and Kozics, K., 2017. The antibacterial and antifungal activity of six essential oils and their cyto/genotoxicity to human HEL 12469 cells. Scientific reports, 7(1), p.8211.
Citacie:

- Seres-Steinbach, A., Bányai, K. and Schneider, G., 2026. A Review of Essential Oils with Anti-Campylobacter jejuni Effects—Their Inhibitory and Destructive Effects on Biofilms and Efficacies on Food Matrices. *Foods*, *15*(3), p.471.
- Qi, X., Xu, Z., Leng, Y., Jin, Z., Chen, B. and Rao, J., 2026. Roles of the volatile and non-volatile fractions of thyme (Thymus vulgaris L.) essential oil in inhibiting Fusarium graminearum growth and trichothecene mycotoxin production. *Sustainable Food Technology*.
- Hossain, M.E., Amin, U.S. and Munni, M.B., 2026. Eighty years of essential oils: rethinking performance, health, meat quality, and gut barrier functions in broiler chicken. *World's Poultry Science Journal*, *82*(2), pp.731-785.
- Jha, A., Sadabar, A., Patel, D., Patel, J.K., Patel, N. and Panjabi, S., 2026. Design and Bioefficacy of Orange Essential Oil-Chitosan Nanoemulsion Against Fruit Juice Spoilage Yeast Saccharomyces Cerevisiae. *BioNanoScience*, *16*(4), p.298.
- Abderrahim, A., Djendi, M.L., Benzaid, C., Kaki, S.A., Bouhenna, M., Chebrouk, F., Khaldi, T., Soussa, A., Touaibia, S., Sarah, R. and Berredjem, H., 2026. GC–MS Analysis, Biological Characterization, Quorum Sensing Inhibition, and Molecular Docking of Cinnamomum camphora L. *Chemistry & Biodiversity*, *23*(4), p.e03635.

3.
Pangallo, D., Šaková, N., Koreňová, J., Puškárová, A., Kraková, L., Valík, L. and Kuchta, T., 2014. Microbial diversity and dynamics during the production of May bryndza cheese. International Journal of Food Microbiology, 170, pp.38-43.
Citacie:

- Hric, I., Nechalová, L., Šimiaková, M., Baranovičová, E., Esmail, G.A., Hammami, R., Penesová, A. and Bielik, V., 2026. Lyophilized Bryndza cheese capsules increase butyrate-producing gut bacteria in recreational athletes: A randomized controlled trial. *Journal of Functional Foods*, *136*, p.107139.
- Khabiri, A., Toroghi, R., Mohammadabadi, M. and Tabatabaeizadeh, S.E., 2025. Whole genome sequencing and phylogenetic relative of a pure virulent Newcastle disease virus isolated from an outbreak in northeast Iran. *Letters in Applied Microbiology*, *78*(4), p.ovaf049.
- Ihsan, M.A., Valdramidis, V.P. and Griffin, S., 2025. Bacterial and fungal profiling of Maltese sheep cheese with amplicon metabarcoding. *International Dairy Journal*, p.106362.
- Rodríguez, J., Suárez, P.R., Vázquez, L., Flórez, A.B., Vivar-Quintana, A.M. and Mayo, B., 2025. Metataxonomic profiling of microbial communities and metabolic analyses of the traditional Spanish raw cow's milk cheese 'Casín'from manufacture to ripening. *Frontiers in Microbiology*, *16*, p.1722502.
- Rodríguez, J., Suárez, P.R., Das, S., Vázquez, L., Lama, S., Flórez, A.B., Tamang, J.P. and Mayo, B., 2025. Microbial and Biochemical Analyses of High-Quality, Long-Ripened, Blue-Veined Cabrales Cheese. *Foods*, *14*(13), p.2366.

4.
Kraková, L., Chovanová, K., Selim, S.A., Šimonovičová, A., Puškarová, A., Maková, A. and Pangallo, D., 2012. A multiphasic approach for investigation of the microbial diversity and its biodegradative abilities in historical paper and parchment documents. International Biodeterioration & Biodegradation, 70, pp.117-125.
Citacie:

- Vassallo, Y., Lehner, E., Waldherr, M., Graf, A., Caniola, I.M., Caterino, S., Cappa, F., Hartl, A., Beccaccioli, M., Reverberi, M. and Sterflinger, K., 2026. Integrative biocodicology: a novel approach combining DNA analysis with FTIR and MicroHot table analysis for the characterisation of modern and ancient parchments. *International Biodeterioration & Biodegradation*, *210*, p.106310.
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- Keles, E. and Celik, O., 2026. Metagenomic and microbiological analyses of historical manuscripts for bacterial community profiling and bacteria-related biodeterioration assessment. *Microbial Cell*, *13*, p.117.
- Díaz-Mendoza, C., Mouthon-Bello, J., Botero, C.M., Acevedo-Barrios, R. and Gutiérrez, L., 2025. Microbiological analysis of cigarette butts and cigarette butt fibers on a tourist beach in Cartagena, Colombia. *Scientific Reports*, *15*(1), p.14510.
- Branysova, T., Petru, N., Baronova, M., Sykorova, H. and Stiborova, H., 2025. Multifaceted Assessment of Fungal Diversity and Biodegradation Activity in Historical Library. *Building and Environment*, *278*, p.113025.

5.
Pangallo, D., Chovanova, K., Šimonovičová, A. and Ferianc, P., 2009. Investigation of microbial community isolated from indoor artworks and air environment: identification, biodegradative abilities, and DNA typing. Canadian journal of microbiology, 55(3), pp.277-287.
Citacie:

- Branco, P., Caldeira, A.T. and González-Pérez, M., 2026. Potential Innovative Tools for Heritage Conservation: A Novel RNA-FISH Probe and Antimicrobial Peptides for the Detection and Control of Arthrobacter spp. *Microorganisms*, *14*(3), p.687.
- Salvador, C., Gatinho, P., Martins, M.R. and Caldeira, A.T., 2026. Novel eco-friendly biocides: Biotechnological sustainable solutions for cultural heritage safeguard. *International Biodeterioration & Biodegradation*, *206*, p.106214.
- Avdanina, D., Ermolyuk, A., Simonenko, N., Troyan, E., Shitov, M. and Zhgun, A., 2025. Molecular Diagnostics and Determining of Biodeterioration Risk for the 16th Century Icon “Descent into Hell” from the State Tretyakov Gallery. *Heritage*, *8*(12), p.498.
- Hagiuda, R. and Hirose, D., 2025. pH characteristics and calcium carbonate dissolution potential of Aspergillus section Restricti isolated from house dust. *Mycological Progress*, *24*(1), p.23.
- Gutarowska, B., Socci, S., Szulc, J., Komar, M., Ruman, T., Nizioł, J. and Manente, S., 2025. Microbial biodeterioration of historic wood based on classical and omics methods with model studies. *Journal of Cultural Heritage*, *71*, pp.302-308.

VI.5 - Účasť na riešení (vedení) najvýznamnejších vedeckých projektov alebo umeleckých projektov za posledných šesť rokov

1.
Sustainable Archives and Greener Approaches; SAGACREA-CUL; Creative Europe Programme (CREA); Call: European Cooperation projects (CREA-CULT-2024-COOP); Project No. 101173303, 2024-2027. In this project, the “health” of 5 Archive Buildings across Europe will be evaluated through microbiological analysis of environmental samples (air and surfaces) from several rooms and specific archival documents. Microbial cultivation and high-throughput sequencing strategies will be combined to identify the present microorganisms, including pathogenic ones.

2.
Exploitation of environmental microbiota and its genetic resources for the development of innovative and sustainable biosorption solutions of rare earth elements (REEs) (SAS-MOST Joint Research Projects Slovakia – Taiwan, No.: SAS-NSTC-JRP-2024-06, EMERGE, 2025-2027). The microbial communities in several polluted environments contaminated with heavy metals were analysed. Microorganisms were also isolated and tested for their REEs sorption abilities. This project complements the submitted project because the engineered microbial REE-specific binding peptides will be functionalized onto phages and biomass-derived matrices.

3.
Feasibility study for the microbiological degradation of poly- and perfluoroalkyl (PFAS), (No.: APVV-23-0382; 2024-2027). In this project, we have already isolated (from soil and wastewater samples) and enzymatically characterized various microorganisms that potentially could degrade per- and polyfluoroalkyl substances (PFAS). The combination of microbiological (cultivation and selection of microorganisms), molecular (high-throughput sequencing), chemical (ICP-MS, IC, LC-HRMS, and NMR), and computational analysis will increase knowledge of PFAS biodegradation mechanisms.

4.
Long-term strategic research and development focused on the occurrence of Lynch syndrome in the Slovak population and the possibility of preventing tumors associated with this syndrome (PreveLynch, European Regional Development Fund, No.: ITMS 313011V578, 2019-2023). This project evaluated the comparison of microbiome diversity among patients with colorectal cancer, Lynch syndrome, and healthy individuals.

5.
Water/Wastewater epidemiology: development of robust and reliable molecular detection systems for surveillance of disease outbreaks (SAS-MOST Joint Research Projects Slovakia – Taiwan, No.: MOST 108-2221-E-006-160-MY3, PathogenTracker, 2020-2023). The project successfully developed several molecular methods to detect potential pandemic pathogens. Several high-throughput sequencing approaches (based on MinION and Illumina HiSeq) were developed to identify the Microbiome, Resistome, Mobilome, and Virulome in wastewater treatment plants and sewage.

IX. - Iné relevantné skutočnosti

Dátum poslednej aktualizácie

29.05.2026