

Results of the preparatory Nanostructurome project

Publications on pre-clinical research

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Environmental research

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Education

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Published lectures and Proceedings publications in the preparatory phase of the project

1. BILBAN, P., et al. Reflections on plenary lecture "Extracellular vesicles from blood cells and in blood - the avenue of future therapies" by Saara Laitinen at 12th Socratic Lectures. V: KRALJ-IGLIČ, Veronika (ur.), ROMOLO, Anna (ur.), ISTILEULOVA, Yelena (ur.). *Socratic Lectures : 12th international symposium, Ljubljana, January 11, January, 2025 : peer reviewed proceedings, part I*. 1st digital ed. Ljubljana: University of Ljubljana Press, 2025. Str. 12-18. ISBN 978-961-297-541-8. (<https://ebooks.uni-lj.si/ZalozbaUL/catalog/book/723/chapter/4057>) Založba Univerze v Ljubljani. DOI: <https://doi.org/10.55295/PSL.12.2025.I2> [COBISS.SI-ID 227883267] 229807619 [Odprti dostop]
2. HORVAT Leon, et al. Role of Extracellular Vesicles in Breast Cancer, its Diagnostics and Treatment. V. KRALJ-IGLIČ, Veronika (ur.), ROMOLO, Anna (ur.), ISTILEULOVA, Yelena (ur.). *Socratic Lectures :12th international symposium, Ljubljana, January 11, January, 2025 : peer reviewed proceedings, part I*. 1st digital ed. Ljubljana: University of Ljubljana Press, 2025. Str. 12-18. ISBN 978-961-297-541-8. (<https://ebooks.uni-lj.si/ZalozbaUL/catalog/book/723/chapter/4059>) Založba Univerze v Ljubljani. DOI:<https://doi.org/10.55295/PSL.12.2025.I4> [COBISS.SI-ID 227883267] [Odprti dostop]
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5. KRALJ-IGLIČ, Veronika, PRELOVŠEK, Anita. On the ethics in Monteverdi's Coronation of Poppaea. V: KRALJ-IGLIČ, Veronika (ur.), ROMOLO, Anna (ur.), ISTILEULOVA, Yelena (ur.). *Socratic Lectures : 12th international symposium, Ljubljana, January 11, 2025 : peer reviewed proceedings, part II*. 1st digital ed. Ljubljana: University of Ljubljana Press, 2025. Str. 205-211. ISBN 978-961-297-551-7. (<https://ebooks.uni-lj.si/ZalozbaUL/catalog/book/742/chapter/4141>) DOI: <https://doi.org/10.55295/PSL.12.2025.II22>. [COBISS.SI-ID 228834307]232321539 [Odprti dostop]
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Defended theses

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7. KUKENBERGER, Ana. *Evaluation of prediction of single cell transcriptome based on biological knowledge transfer between samples* : M. Sc. thesis = Vrednotenje napovedovanja transkriptoma posameznih celic na podlagi biološkega prenosa znanja med vzorci : magistrsko delo. Ljubljana: [A. Kukenberger], 2025. 1 spletni vir (1 datoteka PDF (XI, 52 str., [4] str. pril.)), ilustr. <https://repozitorij.uni-lj.si/IzpisGradiva.php?id=169147>. [COBISS.SI-ID 236011267]
8. STOPAR, Sara. *Analiza izražanja z metilacijo DNA povezanih genov hmelja ob okužbi s CBCVd* : magistrsko delo = *Analysis of the expression of DNA methylation related genes in hops upon CBCVd infection* : M. Sc. thesis. Ljubljana: [S. Stopar], 2024. 1 spletni vir (1 datoteka PDF (XI, 32 str., [8] str. pril.)), ilustr. <https://repozitorij.uni-lj.si/IzpisGradiva.php?id=163839>. [COBISS.SI-ID 211352835]
9. NEMANIČ, Vivian. *Inhibicija rekombinantnih NAD(P)H:kinon oksidoreduktaz iz Escherichie coli in Staphylococcus aureus z derivati hidroksinaftojske kisline* : magistrsko delo. Ljubljana: [V. Nemanič], 2025. 1 spletni vir (1 datoteka PDF (63 str.)), ilustr. [COBISS.SI-ID 228190211]
10. RAVNIKAR, Eva. *Testiranje stabilnosti hidrolatov poprove mete (Mentha × piperita) in pelargonije (Pelargonium graveolens)* = *Stability testing of hydrolates of peppermint (Mentha × piperita) and rose geranium (Pelargonium graveolens)* : magistrska naloga : enoviti magistrski študij farmacija. Ljubljana: [E. Ravnikar], 2025. 1 spletni vir (1 datoteka PDF (76 str.)), ilustr., graf. prikazi. <https://repozitorij.uni-lj.si/IzpisGradiva.php?id=169342>. [COBISS.SI-ID 237166595]
11. LUŠTEK, Patricia. *Razvoj in validacija metode za merjenje empagliflozina v krvni plazmi in prilagoditev za mikrovzorčenje* = *Development and validation of a method for determination of empagliflozin in blood plasma and its adjustment for microsampling* : magistrska naloga : enoviti magistrski študijski program Farmacija. Ljubljana: [P. Luštek], 2025. 1 spletni vir (1 datoteka PDF (IX, 64 str.)), graf. prikazi, tabele. <https://repozitorij.uni-lj.si/IzpisGradiva.php?id=167520>.
12. VUKOVIĆ, Sara. *Odpornost bakterij rodu Bacillus proti protimikrobnim snovem v odpadnih vodah* : magistrsko delo = *Resistance of Bacillus species to antimicrobial agents in wastewater* : master thesis. Ljubljana: [S. Vuković], 2025. 89 str., [16] str. pril., ilustr. [COBISS.SI-ID 236101379]
13. MOŽE, Sara. *Uporaba epigenetskih sprememb za izboljšavo kmetijskih rastlin* : diplomsko delo = *Improving agricultural plants with epigenetic modifications* : B. Sc. thesis. Ljubljana: [S. Može], 2025. 1 spletni vir (1 datoteka PDF (VII, 18 str.)), ilustr. <https://repozitorij.uni-lj.si/IzpisGradiva.php?id=166717>. [COBISS.SI-ID 223703299]
14. POTOČNIK, Nina. *Pregled pripravkov rastlinskega izvora za nego kože z atopijskim dermatitisom* = *Review of herbal preparations for the care of skin with atopic dermatitis* : študijski program kozmetologija. Ljubljana: [N. Potočnik], 2025. 1 spletni vir (1 datoteka PDF (VII, 38 str.)), tabele, graf. prikazi. <https://repozitorij.uni-lj.si/IzpisGradiva.php?id=166901>. [COBISS.SI-ID 225037059]

Submitted project applications

1. ICGEB CRP Grants: Potential of Bioactive Compounds for Managing CBCVd Infection in Hops and Pistachio
2. M-ERA.NET Call 2025, Pre-Proposal, Advanced Multifunctional PHOtocatalytic coatings for Regenerative AIR purification, Project Acronym: AMPHORAIR, Project Coordinator: Universidad Rey Juan Carlos, Spain, Slovenian coordinator: Slovenian project partners: UL, KI, U. Lavrenčič Štangar,
3. HORIZON-CL5-2024-D4-02, SMART-ER - Scalable modular and AI-driven renovation technology for enhanced workflows, Slovenian project partners: KI, UL (U. Lavrenčič Štangar), Fakulteta za industrijski inženiring Novo mesto, REM d.o.o. Project Coordinator: City University of London, Slovenian coordinator: Jerman, I. (KI)
4. TRL3-6: PepEPs: Cellular Nanotechnologies for Farming (including 4 constitutive partners of Nanostructurome), Coordinator: Iglič, A. (UL FE) 4,8M
5. NKFIH-ARIS: Engineering Extracellular Vesicle (EV) BioCorona: Shaping Membrane Curvature for Cellular Interactions, Coordinator: Iglič, A. (UL FE)

6. ARIS – GAČR (D. Heath INPROFF2: Quality, safety and authenticity of insect protein-based food and feed)
7. ARIS - bilateral project Slovenia - China: Biotechnological Innovations for Verticillium Wilt-Resistant Crops in Sustainable Agriculture
8. ARIS - bilateral project Slovenia – Croatia: Modulation of antiviral immune response by checkpoint B7-H3 pathway
9. ARIS - bilateral project Hungary – Slovenia: Structure and function of extracellular vesicles
10. ARIS - bilateral project Slovenia – Serbia: Extracellular vesicles from microalgae as indicators of metal-induced stress and a basis for biocompatible nanocarriers synthesis
11. ARIS - bilateral project Slovenia – China: Machine Learning-Guided Design of High-Entropy Oxide Nanocomposite Films for Enhanced Photocatalytic Performance (Lavrenčič Štangar U., Weng B.)
12. ARIS - Utilising invasive plants for a greener future: sustainable extraction of bioactive compounds
13. ARIS - Evaluation of bioactive compounds as therapeutic agents against viroid infections
14. ARIS - Green extraction of bioactive compounds from olive by-products: sustainable solutions in food, cosmetics, and pharmaceuticals
15. ARIS – strategical project: Machine Learning-Driven Synthesis of High-Entropy Nanomaterials for Solar Energy Conversion (Weng B., Chinese Academy of Sciences)
16. ARIS – strategical project: Zinc-mediated SrTiO₃/MOF Hybrid for Enhanced Solar Water Splitting and CO₂ Reduction (Kovačić, M., University of Zagreb)
17. ARIS - ALG-CARE: Use of microalgae bioactive compounds for skin regeneration (Trebše, P., UL ZF)
18. ARIS - Environmental toxicity of reduced graphene oxide-enhanced plastics (GOplastTOX)
19. ARIS - Wider uptake: from drain to grain: quaternary wastewater treatment for safe water reuse in agriculture (Heath, E., IJS)
20. ARIS - Microplastic particle interactions with intestinal and pulmonary barrier and their impact on bacterial invasion and translocation
21. ARIS - postdoctoral project: Exploring Trans-Kingdom RNA Interference via Extracellular Transcriptome in the pathogenic fungus *Verticillium nonalfalfae* - Hop (*Humulus lupulus* L.)
22. ARIS - project for young doctors: Investigation of miRNA-mediated defense mechanism against *Verticillium nonalfalfae* in hops using CRISPR/Cas9
23. ARIS - project for young doctors: Mycoviruses and Their Role in Controlling Verticillium Wilt Disease

Submitted papers

1. DROBNE, D., et al., Microbiome: A nexus of One Health strategies to address emerging risks, Bioscience, in review
2. MOLNAR, A., et al., High-throughput Equine Plasma Profiling using Laser-Assisted Rapid Evaporative Ionisation Mass Spectrometry, Heliyon, in review
3. STAJIĆ, E., et al., Detection of mutations induced by CRISPR/Cas9 in cabbage protoplasts using qPCR and dPCR. Annals of Applied Biology, in review
4. GOSTINČAR, K., et al., Cytometric and genetic analysis of Slovenian local apple genotypes. Plant Science, in review
5. GONZALEZ-SANZ, C., et al., Secretome symphony: CAZymes of xylem-invading fungus *Verticillium nonalfalfae* orchestrate hemp biomass degradation. Journal of Applied Microbiology, in review
6. LAIMOU-GERANIOU, M., et al., Psychoactive pharmaceuticals: Consumption trends, removal during wastewater treatment and occurrence in receiving waters with associated environmental risks (in review), J Haz Mat Advances, 2025, (Nanostructurome in acknowledgements)
7. NOVAK, S., et al., Tracking the Journey: Europium-Doped Polystyrene Nanoplastics distribution in a model invertebrate (terrestrial isopod, *Porcellio Scaber*, Crustacea) upon dietary exposure, Ecotoxicology and Environmental Safety.

8. VEHAR, A., et al., Influence of Contaminants of emerging concern on the primary and secondary metabolites of hydroponically grown tomatoes (in review), Food Chemistry, (Nanostructurome in acknowledgements)
9. NOVAK, S., et al., Tracking the journey: Europium-doped polystyrene nanoplastics distribution in a model invertebrate (terrestrial isopod, *Porcellio Scaber*, Crustacea) upon dietary exposure; Ecotoxicology and Environmental Safety
10. KUMAR PANDEY, S., et al., SnS₂-TiO₂ heterojunction designed for reductive degradation of contaminants of emerging concern. Nanomaterials. Manuscript ID: nanomaterials-3673890
11. KUMAR, P., et al., Bimetallic CoMn₂O₄ spinel effectively promotes the peroxymonosulfate activation for perfluorooctanoic degradation. Scientific Reports. Submission ID fd2cdfa7-ee0f-44f3-928f-5f0d7a2f46ff
12. NADRAH, P., et al., Optimising the structure of mesoporous niobium oxide using evaporation-induced self-assembly synthesis method. Materials Chemistry Frontiers

Planned papers

1. ŠTAJNER, N., JAKŠE, J. Diversity analysis of the grapevine chloroplast genome by high-throughput sequencing approach. Tree Genetics & Genomes.
2. HAO, J., et al., Solanaceous DCL2 variants are viral inducible and generate both 21- and 22-nt small RNAs. Molecular Plant Pathology.
3. ROBIN, S., et al., Adaptive genomic signatures of host specialization and odor detection in the invasive red palm weevil.
4. TREBŠE, P., et al., Nanostructurome pipeline, Nature Methods
5. ROMOLO A., et al., Visualization of extracellular particles by electron microscopy, Journal of Extracellular Vesicles
6. TROHA, K., et al., Optimization of therapeutic plasma preparation, Nature Communications Digital Health
7. ROMOLO, A., et al., Nanoalgosomes in space, Lancet Planetary Health
8. KRALJ-IGLIČ, V., et al., Curvature patch model of biological membranes, Science
9. BEDINA ZAVEC, A., Flagellosomes from microalgae *Tetraselmis chuii*, Environmental Science Nano
10. MRVAR BREČKO, A., et al., Effect of dilution on characterization of extracellular particles by interferometric light microscopy, Journal of Extracellular Biology
11. KORENJAK, B., et al., Extracellular particles in dogs with brachicephalic obstructive airway syndrome, Journal of Extracellular Vesicles
12. ISTILEULOVA, Y., KRALJ-IGLIČ, V., Implementation of music in health sciences education
13. ANDREASIDOU, E., et al., Evaluating the uptake of contaminants of emerging concern in tomato plants: A field study on wastewater reuse. J Haz Mat (Nanostructurome in Acknowledgements)
14. ANDREASIDOU, E., et al. Assessing the uptake and risk of contaminants of emerging concern in tomato cultivation using treated wastewater and sludge
15. EMIN, S., et al., Dual-functional indium-based metal–organic frameworks for carbon dioxide capture and electroreduction
16. DRAB, M., et al., Interplay between anisotropic curvature and nematic ordering: Insights into membrane shape transitions. J Chem Inf Modeling