

CURRICULUM VITAE

(updated: 04.2026)

Personal Details

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Current position

2024 – Professor of Molecular Biology Department of Molecular Biology and Genetics, School of Health Sciences, Democritus University of Thrace, Greece.

Teaching Activities

- Undergraduate core modules: Methods in Molecular Biology, Cell communication and signaling, Mechanisms of Carcinogenesis, Molecular Biotechnology and Nutrition. Department of Molecular Biology and Genetics, Democritus University of Thrace, Greece.
- Postgraduate programs: Translational Research in Biomedicine, DMBG, DUTH; Clinical Pharmacology and Therapeutics, Department of Medicine, DUTH; Infectious Diseases, International Medicine: From Bench to Bedside, Department of Molecular Biology and Genetics and Department of Medicine, DUTH; Didactics in Biosciences, DMBG, DUTH.
- Supervision of 8 Ph.D. students, 32 M.Sc. students and 67 undergraduate students of the Department of Molecular Biology and Genetics, Democritus University of Thrace.

Research interests

- Intracellular signaling pathways; Regulation of gene expression and responses to extracellular stimuli.
- Investigation of mechanisms of intercellular communication and signaling.
- Probiotic microorganisms: Mechanisms of action and health benefits.
- Analysis of dynamic interactions within microbial communities.

Recent Research Funding

2023-2026 Adaptation to climate change in the rhizosphere across the millennia (TOLERATE) - HORIZON-CL6-2022- CIRC BIO-02- 02-two-stage (Call: Circular economy and bioeconomy sectors) Type of Action: HORIZON-RIA).

2021-2024 BioActiveScreen: «BioActiveScreen Research Infrastructure in Northern Greece: Identification of endemic aromatic plant-derived bioactive compounds of high-added value» 1st Call for H.F.R.I. Research Projects to Support Faculty Members & Researchers and Procure High-Value Research Equipment. Hellenic Foundation of Research and Innovation.

2020-2023 InTechThrace: «Integrated Technologies in biomedical research: multilevel biomarker analysis in Thrace». Operational Programme Competitiveness, Entrepreneurship and Innovation 2014-2020 (EPAnEK).

2020-2022 RESBIOS: «RESponsible research and innovation grounding practices in BIO Sciences». Horizon 2020, Work Programme 2018-2020, SwafS 5, “Grounding RRI practices in research funding and performing organisations” of the Call “Science with and for Society”.

2020-2022 POLYPEPPHARM: «Improved generic polypeptide drugs with innovative pharmaceutical forms» Action "Research- Create - Innovate" (2nd Cycle) Operational Programme Competitiveness, Entrepreneurship and Innovation 2014-2020 (EPAnEK).

Recent Publications

(Publications 87; Citations: 4300; *h*-Index: 35)

- Kiousi DE, Kyriakou S, Efstathiou C, Didaskalou S, Koffa M, Pappa A, Panopoulou M, Panayiotidis MI, Galanis A. *Lacticaseibacillus casei* Combats Biofilm Formation and Exhibits Antibacterial Activity Against Clinical Isolates of *Staphylococcus aureus*, *Salmonella enterica*, and *Escherichia coli*. *Microorganisms*. 2025 Nov 24;13(12):2667. doi: 10.3390/microorganisms13122667.
- Karadedos DM, Mantzios T, Kiousi DE, Tsifintaris M, Giannenas I, Sakkas P, Papadopoulos GA, Antonissen G, Pappa A, Galanis A, Tsiouris V. Metagenomic Insight into Cecal Microbiota Shifts in Broiler Chicks Following *Eimeria* spp. Vaccination. *Microorganisms*. 2025 Jun 24;13(7):1470. doi: 10.3390/microorganisms13071470.
- Kiousi DE, Panopoulou M, Pappa A, Galanis A. Lactobacilli-host interactions inhibit *Staphylococcus aureus* and *Escherichia coli*-induced cell death and invasion in a cellular model of infection. *Front Microbiol*. 2024 Dec 18;15:1501119. doi: 10.3389/fmicb.2024.1501119. PMID: 39744399; PMCID: PMC11688250.
- Tsifintaris M, Kiousi DE, Repanas P, Kamarinou CS, Kavakiotis I, Galanis A. Probio-Ichnos: A Database of Microorganisms with In Vitro Probiotic Properties. *Microorganisms*. 2024 Sep 27;12(10):1955. doi: 10.3390/microorganisms12101955.
- Kamarinou CS, Kiousi DE, Repanas P, Argyri AA, Chorianopoulos NG, Galanis A. Dissecting the Genetic Basis of the Technological, Functional, and Safety Characteristics of *Lacticaseibacillus paracasei* SRX10. *Microorganisms*. 2024 Jan 2;12(1):93. doi: 10.3390/microorganisms12010093.
- Kiousi DE, Karadedos DM, Sykoudi A, Repanas P, Kamarinou CS, Argyri AA, Galanis A. Development of a Multiplex PCR Assay for Efficient Detection of Two Potential Probiotic Strains Using Whole Genome-Based Primers. *Microorganisms*. 2023 Oct 13;11(10):2553. doi: 10.3390/microorganisms11102553. PMID: 37894211; PMCID: PMC10609308.
- Kiousi DE, Efstathiou C, Tegopoulos K, Mantzourani I, Alexopoulos A, Plessas S, Kolovos P, Koffa M, Galanis A. Genomic Insight Into *Lacticaseibacillus paracasei* SP5, Reveals Genes and Gene Clusters of Probiotic Interest and Biotechnological Potential. *Front Microbiol*. 2022 Jun 16;13:922689. doi: 10.3389/fmicb.2022.922689.
- Kiousi DE, Kouroutzidou AZ, Neanidis K, Matthaios D, Pappa A, Galanis A. Evaluating the Role of Probiotics in the Prevention and Management of Age-Related Diseases. *Int J Mol Sci*. 2022 Mar 26;23(7):3628. doi: 10.3390/ijms23073628.
- Kiousi DE, Chorianopoulos N, Tassou CC, Galanis A. The Clash of Microbiomes: From the Food Matrix to the Host Gut. *Microorganisms*. 2022 Jan 6;10(1):116. doi: 10.3390/microorganisms10010116.
- Tegopoulos K, Stergiou OS, Kiousi DE, Tsifintaris M, Koletsou E, Papageorgiou AC, Argyri AA, Chorianopoulos N, Galanis A, Kolovos P. Genomic and Phylogenetic Analysis of *Lactiplantibacillus plantarum* L125, and

Evaluation of Its Anti-Proliferative and Cytotoxic Activity in Cancer Cells. *Biomedicines*. **2021**;9(11):1718. doi: 10.3390/biomedicines9111718.

- Stergiou OS, Tegopoulos K, Kiouisi DE, Tsifintaris M, Papageorgiou AC, Tassou CC, Chorianopoulos N, Kolovos P, Galanis A. Whole-Genome Sequencing, Phylogenetic and Genomic Analysis of *Lactiplantibacillus pentosus* L33, a Potential Probiotic Strain Isolated From Fermented Sausages. *Front Microbiol*. **2021** 26;12:746659. doi: 10.3389/fmicb.2021.746659.
- Agathangelidis A, Galigalidou C, Scarfò L, Moysiadis T, Rovida A, Gounari M, Psomopoulos F, Ronghetti P, Galanis A, Davi F, Stamatopoulos K, Chatzidimitriou A, Ghia P. Infrequent "chronic lymphocytic leukemia-specific" immunoglobulin stereotypes in aged individuals with or without low-count monoclonal B-cell lymphocytosis. *Haematologica*. **2021** Apr 1;106(4):1178-1181. doi: 10.3324/haematol.2020.247908.
- Voulgaridou GP, Mantso T, Anestopoulos I, Klavaris A, Katzastra C, Kiouisi DE, Mantela M, Galanis A, Gardikis K, Banat IM, Gutierrez T, Sałek K, Euston S, Panayiotidis MI, Pappa A. Toxicity Profiling of Biosurfactants Produced by Novel Marine Bacterial Strains. *Int J Mol Sci*. **2021** Feb 27;22(5):2383. doi: 10.3390/ijms22052383.
- Kiouisi DE, Rathosi M, Tsifintaris M, Chondrou P, Galanis A. Pro-biomics: Omics Technologies To Unravel the Role of Probiotics in Health and Disease. *Adv Nutr*. **2021** Oct 1;12(5):1802-1820. doi: 10.1093/advances/nmab014.
- Xanthis V, Fitsiou E, Voulgaridou GP, Bogadakis A, Chlichlia K, Galanis A, Pappa A. Antioxidant and Cytoprotective Potential of the Essential Oil *Pistacia lentiscus* var. *chia* and Its Major Components Myrcene and α -Pinene. *Antioxidants (Basel)*. **2021** Jan 18;10(1):127. doi: 10.3390/antiox10010127.

Other activities

- Director of Studies of the Postgraduate Program "Translational Research in Biomedicine", DMBG, DUTH, and coordinator of the course "Molecular Diagnostics".
- Former Member of the Coordination Committee of the Postgraduate Program Committee "Didactics of Bio-Scientists" and coordinator of the course "Academic and Professional Skills of Bio-Scientists".
- Former representative of the Department of Molecular Biology and Genetics Faculty at the Dean of the Faculty of Health Sciences of DUTH.
- Evaluator for Funding Organizations: General Secretariat of Research and Technology (GSRT), Hellenic Foundation for Research and Innovation (ELIDEK), State Scholarships Foundation (IKY), Research Promotion Foundation (IPE) of Cyprus, University of Thessaly – Stavros Niarchos Foundation, National Research Center of Poland.
- Editor Board Member of the Scientific Journals: *Microorganisms*, *Frontiers in Microbiology*.
- Reviewer for Scientific Journals: *Applied Environmental Microbiology*, *Molecules*, *International Journal of Molecular Sciences*, *Nutrients*, *Oncotarget*, *Pharmacology and Therapeutics*, *Biomed Research International*, *Clinical and Vaccine Immunology*, *Anaerobe*, *Journal of Phytopathology*, *African Journal of Microbiological Research*, *Current Medicinal Chemistry*, *Current Organic Chemistry*, *Journal of Dairy Science*, *Journal of Nutritional Metabolism*, *Journal of Biological Research-Thessaloniki*, *Journal of Chemistry*, *Journal of Oncology*, *Fermentation*, *Microorganisms*, *Journal of Functional Foods*.
- Editor – Editorial board for the Greek edition of the books: *Principles of Molecular Biology*, B.E. Tropp (2015); *Recombinant DNA*, Watson J., Myers R., Caudy A., Witkowski J. (2006); *Microscopic Life* R. Walker (2005); *Routes of Sciences: Genetics*, T. Day (2005) and *Genes and DNA* R. Walker (2005).
- 140 oral or poster presentations in National and International Scientific meetings.
- Secretary of the Hellenic Society of Biological Sciences (elected member, 2019–present).
- Member of the Organizing Committee of the 41st - 44th Panhellenic Conferences of the Hellenic Society of Biological Sciences.