



Academic Personnel Short Profile / Short CV

University:	University of Nicosia
Surname:	Miliotou
Name:	Androulla
Rank/Position:	Adjunct Faculty
Faculty:	School of Life and Health Sciences
Department:	Pharmacy Programme, Department of Health Sciences
Scientific Domain: *	Molecular Pharmacology, Biochemistry and Biotechnology

** Field of Specialization*

Academic qualifications (list by highest qualification)				
Qualification	Year	Awarding Institution	Department	Thesis title (Optional Entry)
PhD in Molecular Pharmacology	2016-2020	Aristotle University of Thessaloniki	School of Pharmacy	Development of in vitro transcribed mRNAs as Therapeutics for Metabolic/Monogenic Disorders, using the PTD Technology for their Intracellular Delivery
MSc in Pharmaceutical Biotechnology and Molecular Diagnostics	2013-2016	Aristotle University of Thessaloniki	School of Pharmacy	Cloning and expression of recombinant proteins through PTD technology: study of their intracellular transduction in cell culture



ΦΟΡΕΑΣ ΔΙΑΣΦΑΛΙΣΗΣ ΚΑΙ ΠΙΣΤΟΠΟΙΗΣΗΣ ΤΗΣ ΠΟΙΟΤΗΤΑΣ ΤΗΣ ΑΝΩΤΕΡΗΣ ΕΚΠΑΙΔΕΥΣΗΣ
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BSc in Biochemistry and Biotechnology	2008-2013	University of Thessaly	Biochemistry and Biotechnology	Characterization of molecules that interact with mitochondrial glucocorticoid receptor
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Employment history in Academic Institutions/Research Centers – List by the three (3) most recent

Period of employment		Employer	Location	Position
From	To			
2022	Present	University of Nicosia	Nicosia, Cyprus	Adjunct Faculty, Pharmacy Programme, Department of Health Sciences, School of Life and Health Sciences University of Nicosia
2020	Present	KES College	Nicosia, Cyprus	Head of Departments: Medical Representatives Management (Bachelor/240 ECTS), Medical Representatives (Higher Diploma/180 ECTS and Diploma/120 ECTS) and Pharmacy Assistants (Technicians) (Diploma/ 120 ECTS) and Senior Lecturer
2017	2019	IEK PASTER	Thessaloniki, Greece	Lecturer
2014	2020	Aristotle University of Thessaloniki	Thessaloniki, Greece	Co-Teaching of pre- graduate laboratory courses, School of Pharmacy, Aristotle



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				University of Thessaloniki
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Key refereed journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected –(max total 10)

Ref. Number	Year	Title	Other authors	Journal and Publisher / Conference	Vol.	Pages
1	2023	An updated review for hyperuricemia and gout management; special focus on the available drug delivery systems and clinical trials	Ioannis D Karantas, Androulla N Miliotou , Panoraia I Siafaka	Current Medicinal Chemistry. DOI: 10.2174/0929867331666230809143758		
2	2023	Protein Transduction Domain-Mediated Delivery of Recombinant Proteins and In Vitro Transcribed mRNAs for Protein Replacement Therapy of Human Severe Genetic Mitochondrial Disorders: The Case of Sco2 Deficiency	Androulla N. Miliotou , Parthena F Foltopoulou, Alexandra Ingendoh-Tsakmakidis, Asterios S Tsiftoglou, Ioannis S Vizirianakis, Ioannis S Pappas, Lefkothea C Papadopoulou	Pharmaceutics. DOI: 10.3390/pharmaceutics15010286	15 (1)	286
3	2023	Delivering active molecules to the eye; the concept of electrospinning as potent tool for drug delivery systems	Panoraia I Siafaka, Ece Ozcan Bulbul, Androulla N Miliotou , Ioannis D Karantas, Mehmet Evren Okur, Neslihan Üstündağ Okur	Journal of Drug Delivery Science and Technology. DOI: 10.1016/j.jddst.2023.104565	84	104565

4	2022	In Vitro-Transcribed mRNAs as a new generation of therapeutics in the dawn of 21st century: Exploitation of peptides as carriers for their intracellular delivery	Miliotou N. Androulla , Pappas S. Ioannis, Vizirianakis S. Ioannis and Papadopoulou C. Lefkothea.	In: Stefan Jurga and Jan Barciszewski (eds) Messenger RNA Therapeutics, RNA TECHNOLOGIES, Springer Series. DOI: 10.1007/978-3-031-08415-7_10	13	209-235
5	2022	An Innovative PTD-IVT-mRNA Delivery Platform for CAR Immunotherapy of ErbB(+) Solid Tumor Neoplastic Cells	Georgiou-Siafis K. Sofia, Miliotou N. Androulla , Nenti Charikleia, Pappas S. Ioannis, Papadopoulou C. Lefkothea.	Biomedicines. DOI: 10.3390/biomedicine s10112885	10 (11)	2885
6	2021	Development of a novel PTD-mediated IVT-mRNA Delivery Platform for potential Clinical Application as a Protein Therapy approach for Metabolic/Genetic disorders.	Miliotou N. Androulla , Pappas S. Ioannis, Spyroulias S. George, Vlachaki Efthimia, Tsiftoglou S. Asterios, Vizirianakis S. Ioannis and Papadopoulou C. Lefkothea.	Molecular Therapy-Nucleic Acids. DOI: 10.1016/j.omtn.2021.09.008	26	694-710
7	2021	PTD-mediated delivery of α -globin chain into K-562 erythroleukemia cells and α -thalassemic (HBH) patients' RBCs ex vivo in the frame of Protein Replacement Therapy	Androulla N. Miliotou , Dionysia Papagiannopoulou, Efthymia Vlachaki, Martina Samiotaki, Dimitra Laspa, Stamatia Theodoridou, Asterios S. Tsiftoglou and Lefkothea C. Papadopoulou	Journal of Biological Research-Thessaloniki. DOI: 10.1186/s40709-021-00148-3	28 (1)	1-13

8	2021	An ATM/CHK2 signaling pathway induces nuclear translocation of SRPK2 in cisplatin-treated HeLa cells.	Ioanna Sigala, Anastasia Koukiali, Androulla Miliotou , Phaedra Lougiaki, Thomas Giannakouros, Eleni Nikolakaki.	Processes. DOI: 10.3390/pr9122223	9 (12)	2223
9	2020	Assessment of biodistribution of TAT-L-Sco2 Fusion Protein, towards a Protein Therapeutic approach for Mitochondrial Neurodegenerative Disorders, due to SCO2 Mutations.	Georgios C. Kaiafas, Dionysia Papagiannopoulou, Androulla N. Miliotou , Anastasia S. Tsingotjidou, Parthenopi C. Chalkidou, Aikaterini C. Tsika, George A. Spyroulias, Asterios S. Tsiftoglou, Lefkothea C. Papadopoulos	Molecular Genetics and Metabolism. DOI: 10.1016/j.ymgmr.2020.100683	25	100683
10	2020	Effect of the triphenylphosphonium cation on the biological properties of new rhenium and technetium-99m fac-[M(CO) ₃ (NSN)] ⁺ -type complexes: Synthesis, structural characterization, in vitro and in vivo studies.	Achilleas Kyriazopoulos, Aikaterini-Lamprini Alexiou, Androulla N. Miliotou , Lefkothea Papadopoulos, Antonios Hatzidimitriou, Dionysia Papagiannopoulou.	Inorganica Chimica Acta. DOI: 10.1016/j.ica.2020.119807	511	119807
11	2020	Rapid on site diagnosis of canine giardiasis: time vs. reliability	Isaia Symeonidou, Athanasios Gelasakis, Androulla Miliotou , Athanasios Angelou, Konstantinos Arsenopoulos, Sofia Loukeri, Elias Papadopoulos.	Parasites & Vectors, 10.1186/s13071-020-04422-6	13 (1)	1-10

12	2019	Tackling pharmacological response heterogeneity by PBPK modeling to advance precision medicine productivity of nanotechnology and genomics therapeutics.	Vizirianakis S. Ioannis, Miliotou N. Androulla , Mystridis A. George, Andriotis G. Eleftherios, Andreadis Ioannis, Papadopoulou C. Lefkothea, Fatouros G. Dimitrios.	Expert Review of Precision Medicine and Drug Development. DOI: 10.1080/23808993.2019.1605828	4 (3)	139-151
13	2019	In Vitro-Transcribed (IVT)-mRNA CAR Therapy Development.	Miliotou N. Androulla and Papadopoulou C. Lefkothea.	In: Swiech K., Malmegrim K., Picanço-Castro V. (eds) Chimeric Antigen Receptor T Cells. Methods in Molecular Biology. Humana, New York. DOI: 10.1007/978-1-0716-0146-4_7	2086	87-117
14	2018	CAR T-cell Therapy: A New Era in Cancer Immunotherapy.	Miliotou N. Androulla and Papadopoulou C. Lefkothea.	Current Pharmaceutical Biotechnology. DOI: 10.2174/1389201019666180418095526	19 (1)	5-18

**Exhibitions (where applicable). List the five (5) more recent and other five (5) selected.
(max total 10)**

Ref. Number	Date	Topic	International / Local	Location*	Role in Exhibition
1	2022	Innovative Protein Replacement for Thalassemias: From Recombinant Protein delivery to PTD-mediated IVT-mRNA therapeutics.	2nd Global Experts Meet on Applied Science, Engineering and Technology	Paris, France, on October 14-16, 2022	Invited Speaker - Oral presentation
2	2022	Novel Protein Transduction Domain-based delivery platform for IVT-mRNA therapeutics development.	IV International Conference on Pharma Research & Development	San Francisco, CA, U.S.A., on February 22-26, 2022	Invited speaker - Oral presentation
3	2021	Recruiting mRNA therapeutics and Protein Transduction Domain technology for a metabolic disorder, caused by SCO2 mutations.	Hbioinfo Bridge Event 2020-21, of the Hellenic Bioinformatics Society	Nicosia, Cyprus, on June 2-5, 2021	Oral Presentation
4	2021	Intracellular delivery of β -globin IVT-mRNA, via the PTD technology, as a novel therapeutic approach for β -thalassemia.	8th mRNA Health Conference	Boston, U.S.A., on November 9-10, 2020	Poster presentation
5	2019	A novel intracellular delivery technology for in vitro transcribed (IVT)-mRNAs.	70th Panhellenic Conference of the Hellenic Society for Biochemistry and	Athens, Greece, on November 28- December 1, 2019	Oral Presentation

			Molecular Biology (HSBMB)		
6	2019	IVT-mRNA conjugated to a protein transduction domain, as a novel gene delivery platform for protein replacement therapy.	7th mRNA Health Conference	Berlin, Germany, on November 11-12, 2019	Poster presentation
7	2018	Cloning procedure for the production of the recombinant TAT-Sco2 fusion protein.	3rd Panhellenic Scientific Conference of Pharmacy Students (Π.Ε.Σ.Φ.ΦΑ.)	Thessaloniki, Greece, on December 8-9, 2018	Oral presentation
8	2018	Development of in vitro transcribed SCO2 mRNA as novel therapeutic approach in a mitochondrial disorder, due to SCO2 mutations.	69th Panhellenic Conference of the Hellenic Society for Biochemistry and Molecular Biology (HSBMB)	Larisa, Greece, on November 23-25, 2018	Oral Presentation
9	2018	Cloning and expression of recombinant human α -globin through PTD technology: Study of its intracellular transduction in K562 proerythroid cell culture.	10th Congress of the Hellenic Society for Basic and Clinical Pharmacology	Ioannina, Greece, on May 25-27, 2018	Poster presentation

**Specify venue, geographic location etc*

Research Projects. List the five (5) more recent and other five (5) selected (max total 10)				
Ref. Number	Date	Title	Funded by	Project Role*
1	2020 - 2022	Development of an innovative approach of CAR technology in the context of oral cancer immunotherapy	HFRI - Hellenic Foundation for Research & Innovation, "Human Resources Development, Education and Lifelong Learning 2014- 2020"	Research Team Member
2	2021-2022	Evaluation of Venus Rose Eye Cream Effectiveness, KES RESEARCH CENTRE	The Research and Innovation Foundation Programmes for Research, Technological Development and Innovation "Restart 2016 – 2020" Transformation of RTDI System INNOVOUCHERS/1217/0258	Research Team Member
3	2019 - 2021	SRPK1 Kinase: A New Role in Cancer Cell Apoptosis	HFRI - Hellenic Foundation for Research & Innovation, "Human Resources Development, Education and Lifelong Learning 2014- 2020"	Research Team Member
4	2017 - 2020	Development of in vitro transcribed mRNAs as Therapeutics for Metabolic/Monogenic Disorders, using the PTD Technology for their Intracellular Delivery	1st Call for HFRI - Hellenic Foundation for Research & Innovation, Scholarships to PhD Candidates	Main Researcher
5	2016 - 2020	Development of in vitro transcribed mRNAs as Therapeutics for Metabolic/Monogenic Disorders, using	IKY-Cyprus (State Scholarships Foundation) - Scholarship supporting PhD students to	Main Researcher



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		the PTD Technology for their Intracellular Delivery	elaborate doctoral thesis in Greece and/or abroad.	
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**Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*

**Awards / International Recognition (where applicable). List the five (5) more recent and other five (5) selected.
(max total 10) (Optional Entry)**

Ref. Number	Date	Title	Awarded by:
1	2022	Excellence Award –For noteworthy clinical-Laboratory project and application of innovative methods and techniques for the first time in Greece	Dean of the School of Health Sciences, Aristotle University of Thessaloniki
2	2019	Travel Award for the participation at the 70th Panhellenic Conference of the Hellenic Society for Biochemistry and Molecular Biology (HSBMB).	Hellenic Society for Biochemistry and Molecular Biology (HSBMB)
3	2018	Silver medal at the International Genetically Engineered Machine competition, Cambridge, MA - Advisor, iGEM Thessaloniki 2018 team.	International Genetically Engineered Machine competition, Cambridge



Other Achievements. List the five (5) more recent and other five (5) selected. (max total 10) (Optional Entry)			
Ref. Number	Date	Title	Key Activities:
1	2021	Co-inventor for Patent: “Method for the development of a delivery platform to produce deliverable PTD-IVT-mRNA therapeutics”.	INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT), WO2021/094792 A1, EP20823912.9 (European Patent Office) and 9389GR, 20190100504 (National) by AUTH