CURRICULUM VITAE

PERSONAL DETAILS

Name: Marilena Vlachou

Place of Birth: Athens, Greece

Nationality: Greek

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**Assistant Professor at the University**

**of Athens - Faculty of Pharmacy - Department of**

**Pharmaceutical Technology**

## EDUCATION

1988-1992 ***Ph D* in Pharmaceutical Technology**. University of Athens, Greece.

1988 **Professional license in pharmacy** (Chartered Pharmacist).

1984-1988 ***BSc*** **in Pharmacy**. University of Athens, Greece.

### SCHOLARSHIPS

1988-1992 University of Athens scholarship recipient (Postgraduate Research Scholar)

1989-1990 Visiting Research Scientist (University of Rhode Island, U.S.A.)

### PROFESSIONAL AFFILIATIONS

Member, Greek Pharmaceutical Society.

Member, Greek Society of Pharmaceutical Technology.

Member, Greek Dermatological and Venereological Society.

Member, Greek Society of Cosmetology.

Member, Greek Section of the Society of the Controlled Release of Drugs.

**SELECTED PUBLICATIONS IN INTERNATIONAL SCIENTIFIC PEER-REVIEWED JOURNALS**

* V. Papadopoulou, K. Kosmidis, **M. Vlachou**, P. Macheras. On the use of the Weibull function for the discernment of drug release mechanisms. *Int J Pharm*, 309, 44-50, (2006).
* **M. Vlachou**\*, A. Eikosipentaki, V. Xenogiorgis. Pineal hormone melatonin: Solubilization studies in model aqueous gastrointestinal environments. *Curr Drug Deliv*, 3, 255-265, (2006).
* N. [Varvarigou,](http://www.scopus.com/authid/detail.url?authorId=55368668900&amp;eid=2-s2.0-84867581524) G. [Megariotis,](http://www.scopus.com/authid/detail.url?authorId=35573925700&amp;eid=2-s2.0-84867581524) G. [Leonis,](http://www.scopus.com/authid/detail.url?authorId=39961861800&amp;eid=2-s2.0-84867581524)  E. [Vrontaki,](http://www.scopus.com/authid/detail.url?authorId=55368845700&amp;eid=2-s2.0-84867581524) A.-M. [Maniati, **M**. **V**](http://www.scopus.com/authid/detail.url?authorId=55368478900&amp;eid=2-s2.0-84867581524)[**lachou**, A.](http://www.scopus.com/authid/detail.url?authorId=6603922779&amp;eid=2-s2.0-84867581524) [Eikosipentaki,](http://www.scopus.com/authid/detail.url?authorId=34568943900&amp;eid=2-s2.0-84867581524) R. [Kompogennitaki,](http://www.scopus.com/authid/detail.url?authorId=55368380000&amp;eid=2-s2.0-84867581524" \o "Show Author Details) M.G. [Papadopoulos, S.G.](http://www.scopus.com/authid/detail.url?authorId=7101945000&amp;eid=2-s2.0-84867581524) [Grdadolnik, D.](http://www.scopus.com/authid/detail.url?authorId=6701587780&amp;eid=2-s2.0-84867581524" \o "Show Author Details) [Komiotis, T.](http://www.scopus.com/authid/detail.url?authorId=6602777545&amp;eid=2-s2.0-84867581524) [Mavromoustakos, A.](http://www.scopus.com/authid/detail.url?authorId=35592959700&amp;eid=2-s2.0-84867581524) [Tsotinis.](http://www.scopus.com/authid/detail.url?authorId=6701884231&amp;eid=2-s2.0-84867581524" \o "Show Author Details) Conformational analysis of two novel cytotoxic C2-substituted pyrrolo[2,3-*f*]quinolines in aqueous media, organic solvents, membrane bilayers and at the putative active site. *Bioorg. Med. Chem*., 20(21), 6276-6284, (2012).
* **M. Vlachou**\*, M. Papamichael, A. Siamidi, I. Fragouli, P. A. Afroudakis, R. Kompogennitaki Y. Dotsikas. Comparative In Vitro Controlled Release Studies on the Chronobiotic Hormone Melatonin from Cyclodextrins-Containing Matrices and Cyclodextrin: Melatonin Complexes. *Int. J. Mol. Sci*. 18, 1641 (2017)

doi:10.3390/ijms18081641

* **M. Vlachou\***, K.Tragou, A. Siamidi, S. Kikionis, A. L. Chatzianagnostou, A. Mitsopoulos, E. Ioannou, V. Roussis, A. Tsotinis. Modified in vitro release of the chronobiotic hormone melatonin from matrix tablets based on the marine sulfated polysaccharide ulvan. *J Drug Deliv Sci Technol.* 44:41- 48 (2018) doi: [10.1016/j.jddst.2017.11.019](https://doi.org/10.1016/j.jddst.2017.11.019)
* **M. Vlachou**\*, S. Kikionis, A. Siamidi, K. Tragou, S. Kapoti, E. Ioannou, V. Roussis, A. Tsotinis. Fabrication and Characterization of Electrospun Nanofibers for the Modified Release of the Chronobiotic Hormone Melatonin. *Curr Drug Deliv*, 16(1):79-85 (2019) DOI: 10.2174/1567201815666180914095701.
* **M. Vlachou**\*, S. Kikionis, A. Siamidi, K. Tragou, E. Ioannou, V. Roussis, A. Tsotinis. Modified in vitro release of melatonin loaded in nanofibrous electrospun mats incorporated into mono-layered and three-layered tablets. *J Pharm Sci,*108(2):970-976 (2019) DOI: https://doi.org/10.1016/j.xphs.2018.09.035.

**BOOK CHAPTERS**

**M. Vlachou**, A. Siamidi, Book chapter entitled “***Melatonin modified release formulations***” in C. M. Dragoi Ed. ***Melatonin - Molecular Biology, Clinical and Pharmaceutical Approaches*** ISBN 978-953-51-6797-6, DOI: 10.5772/intechopen.78337 (2018).

**M. Vlachou**, A. Siamidi, S. Kyriakou, Book chapter entitled “***Electrospinning and drug delivery***” in Sajjad Haider and Adnan Haider Ed “***Electrospinning and*** ***Electrospraying - Techniques and Applications***”, ISBN 978-1-78984-700-0 DOI: 10.5772/intechopen.86181 (2019).

#### INTERNATIONAL CONFERENCES & SYMPOSIUMS: INVITED SPEAKER

* **M. Vlachou**, An account of melatonin’s modified release in gastrointestinal fluids in 3rd International Conference on Pharmaceutics & Novel Drug Delivery Systems (Dubai, 5-6 December 2018)
* **M. Vlachou**, Electrospun nanofibers in skin wound healing and topical drug delivery in 9th World Congress on Clinical Pharmacy and Pharmacy Practice (Amsterdam, 25-26 March 2019)
* **M. Vlachou** in 3rd Global Pharmaceutical Conference and Expo on Pharma research for Industry demands (London 3-5 July 2019)
* **M. Vlachou**, The influence of Eudragits and PVP on the modified release of furosemide in 2nd International Conference and Exhibition on Pharmaceutics and Advanced Drug Delivery Systems (Paris, 5-6 July 2019)
* **M. Vlachou**, Mesalazine: Mini tablets in capsules preparation and drug release assessment in 3rd International conference on Pharmacy and Pharmaceutical Sciences (Rome, 22-25 July 2019)
* **M. Vlachou**, Electrospun nanofibers and modified drug release in the 31st Assembly of advanced materials congress in USA (Miami, 8-13 December 2019)

###### WORK EXPERIENCE AND POSTGRADUATE TRAINING

2001- University of Athens, Faculty of Pharmacy: Assistant Professor of Pharmaceutical Technology.

1994-2001 University of Athens, Faculty of Pharmacy: Lecturer of Pharmaceutical Technology.

1989-1990 University of Rhode Island, U.S.A. Visiting Research Scientist in the School of Pharmacy. Research field: Drug release and microencapsulation.

1988-1992 "A. Syggros" Hospital – Photobiology Department, Athens, Greece: Research Associate. Research field: Studies on dermatological preparations. Teaching duties: Training of the hospital’s personnel in the fields of dermatology and cosmetology.

**EDUCATIONAL DUTIES**

***1. TEACHING***

**a)** Undergraduate level

• Co-teaching of the six-month compulsory course "Pharmaceutical Technology I" to the students of the 5th semester of the Department of Pharmacy of the University of Athens (1994-present).

• Co-teaching of the six-month course "Modern Pharmaceutical Systems" to students of the 8th semester of the Department of Pharmacy of the University of Athens (2015-present).

• Participation in the laboratory exercises of the course "Pharmaceutical Technology" (1988 - 1994, as PhD candidate and 1994 - today, as a faculty member).

• Supervision of the laboratory practicals of the undergraduate students at the School of Pharmacy, University of Rhode Island (U.R.I., U.S.A.) (1989).

**b)** Postgraduate level

* Co-teaching of the six-month compulsory course "Physical Pharmacy" (Module: Industrial Pharmacy (1994 - today)).
* Participation in the teaching of the seminar course "Cosmetology-Dermatopharmacology" (2016 -).
* Co-teaching of the six-month compulsory course "Nanomedicine" (Module: Application of Nanotechnology in Medicine (2018 - ).
* Co-teaching of the six-month compulsory course "Nanomedicine" (Module: Application of Nanotechnology in Medicine (2018 - ).
* Co-teaching of the six-month compulsory course "Development of new drugs: Research, circulation and accessibility" (Module: Development of drug controlled release systems (2019 - ).

***2. SUPERVISION OF DISSERTATIONS/PhD THESES***

**Field of Pharmaceutical Technology:**

Supervision of one (1) PhD thesis.

Supervision of twenty three (23) MSc dissertations.

Supervision of twelve (12) BSc diploma projects.

Participant in three-membered and seven-membered evaluating committee of nine (9) PhD theses.

Participant in three-membered supervising committees of twenty six (26) MSc dissertations.

Participant in three-membered supervising committees of forty six (46) BSc diploma projects.

**EDITORIAL BOARD MEMBERSHIP**

* American Research Journals (ARJ)-[American Research Journal of Pharmacy](https://www.arjonline.org/medicine-and-health-care-journals/american-research-journal-of-pharmacy)
* Journal of Pharma and Pharmaceutical Sciences
* Journal of Pharmaceutical science and experimental pharmacology
* Pharmacy & Pharmacology International Journal
* PLoS ONE

**EVALUATOR OF RESEARCH ARTICLES SUBMITTED TO:**

# Journal of Inclusion Phenomena and Macrocyclic Chemistry.

# Medical Science Monitor.

# European Journal of Pharmaceutical Sciences.

# Letters in Drug Design and Discovery.

# International Journal of Pharmaceutics.

# Journal of Drug Delivery Science and Technology.

# African Journal of Pharmaceutical Sciences and Pharmacy.

# PLOS ONE (2017) PLOS ONE 2016 Reviewer and Editorial Board Thank You. PLoS ONE 12(3): e0174259. doi:10.1371/journal.pone.0174259

# Journal of Polymer Science

# International Journal of Molecular Sciences

**RESEARCH INTERESTS**

Formulation and *in vitro* release studies of drugs belonging to various therapeutic categories. These studies involve controlled and sustained release of sparingly soluble drugs from solid pharmaceutical formulations, such as polymers and cyclodextrins. Formulation and evaluation of multi-layer tablet drug delivery systems for oral sustained release of soluble and poorly soluble drugs.

**PARTICIPATION / SCIENTIFIC RESPONSIBLE IN RESEARCH PROJECTS**

Number of funded research projects: Thirteen (13).