

CURRICULUM VITAE

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EDUCATION

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| 1983 | Graduation Certificate (Apolytirion) from the Arsakio Psychiko Lyceum, Greece (Grade: Excellent) |
| 1988 | BSc in Pharmacy. National and Kapodistrian University of Athens (NKUoA), Greece (Grade: Very Good) |
| 1988-1992 | PhD student in Pharmaceutical Technology, National and Kapodistrian University of Athens (NKUoA), Greece – Designated Postgraduate Scholarship (E.M.Y.) awarded by the Division of Pharmaceutical Technology (NKUoA). |
| 1992 | PhD in Pharmaceutical Technology, National and Kapodistrian University of Athens (NKUoA), Greece, (Ranking: Excellent) |
| 2016 | IT Skills - Unicert Primary (MS Windows 7, MS Word 2010, MS Excel 2010, MS PowerPoint 2010, MS Outlook 2010 & MS Internet Explorer 8, MS Access 2010) |

SCIENTIFIC AND PROFESSIONAL ACTIVITY

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| 1988 | EEA-Qualified pharmacist (Exams placing: very good). |
| 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. |
| 1989-1990 | University of Rhode Island, U.S.A. Visiting Research Scientist in the School of Pharmacy. Research field: Drug release and microencapsulation. |
| 1994-2001 | NKUA, Faculty of Pharmacy: Lecturer of Pharmaceutical Technology. |
| 2001-2020 | NKUA, Department of Pharmacy: Assistant Professor of Pharmaceutical Technology. |
| 2020-2025 | NKUA, Department of Pharmacy: Associate Professor of Pharmaceutical Technology (permanent post). |
| 2025- | NKUA, Department of Pharmacy: Associate Professor of Pharmaceutical Technology |

SCIENTIFIC SOCIETIES MEMBER

Greek Pharmaceutical Society
Greek Society of Pharmaceutical Technology
Greek Dermatological and Venereological Society
Greek Society of Cosmetology
Greek Section of the Society of the Controlled Release of Drugs
Controlled Release Society
Royal Society of Medicine (RSM) in London
Greek Society for Thermal Analysis

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 undergraduate programme 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 undergraduate programme of the Department of Pharmacy of the University of Athens (2015-present).
- Participation in the laboratory practicals 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 of 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 -).
- Joint organization and teaching of the six-month compulsory course "Development of new drugs: Research, circulation and accessibility" (Module: Development of drug controlled release systems (2019-).
- Lecture in the context of the Blended Intensive Programmes (BIP) CIVIS- focus area Health (1-21 October 2024)

2. UNDERGRADUATE RESEARCH PROJECTS

- 2A. Three-membered Supervision Committees **(71)**
2B. Supervisor of Undergraduate Research Projects **(32)**
2C. Supervision of Integrated Master dissertations **(4)**
2D. Three-membered Integrated Master Supervision Committees **(13)**

3. MSc DISSERTATIONS

- 3A. Three-membered Supervision Committees **(56)**

3B. Supervisor of MSc Dissertations (29)

4. PhD THESES

4A. Three-membered and Seven-membered committees (19)

4B. PhD Theses Supervision (2)

4C. Supervision of postdoctoral researcher (1)

5. SCRIPTS AUTHORESS

5A. BOOKS' CHAPTERS

- 1 G. Papaioannou, K.N. Demetzos, **M. Vlachou-Konstantinidou**: "*Pharmaceutical Technology I: Principles of Pharmacy Physics and Nanotechnology*" for the students of the 5th semester of the Department of Pharmacy (Parisianou Ed, Athens, 2007).
- 2 **M. Vlachou-Konstantinidou**, "*Physical Pharmacy*", Notes for the students of the Postgraduate Program (Athens, 2014-).
- 3 **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).
- 4 **M. Vlachou**, A. Siamidi, S. Kyriakou, Book chapter entitled "*Electrospinning and drug delivery*" in Sajjad Haider and Adnan Haider Ed "*Electrospinning and Electrospinning - Techniques and Applications*", ISBN 978-1-78984-700-0 DOI: 10.5772/intechopen.86181 (2019).
- 5 **M. Vlachou**, A. Siamidi, Book chapter entitled "*Biopolymers in drug delivery systems*", in C. Demetzos and N. Pippa Eds, "*Nanomaterials for Clinical applications*" ISBN: 9780128167052, Elsevier 2019
- 6 A.Siamidi, E. Tsintavi, D.M. Rekkas, **M. Vlachou**, Book chapter entitled "*3D-Printed Modified-Release Tablets: A Review of the Recent Advances*" in Usama Ahmad Ed "*Pharmaceutical dosage forms*" ISBN 978-1-83881-899-9 DOI: 10.5772/intechopen.90868 (2020).
- 7 **M. Vlachou**, A. Siamidi, C. Protopapa. Book chapter entitled "*Extrusion-based 3D printing methods for oral solid dosage forms*" in D. Lamprou. BOOK: "*3D & 4D Printing Methods for Pharmaceutical Manufacturing and Personalised Drug Delivery: Opportunities & Challenges*" (2023) (AAPS Introduction to Pharmaceutical Sciences series). Springer. ISSN (Print): 2522-834X
- 8 N. Pippa, M. Chountoules, C. Demetzos, **M. Vlachou**. Book chapter entitled "*Modified-release drug delivery systems with emphasis in oral dosage forms*" in From Current to Future Trends in Pharmaceutical Technology, Paperback ISBN: 9780323911115 eBook ISBN: 9780323914390, Elsevier 2023
- 9 A. Karnaki, A. Siamidi, V. Karalis, N. Lagopati, N. Pippa, **M. Vlachou**. Book chapter entitled "*Thermo-responsive hydrogels: current status and future perspectives*" in Intechopen. Adriano De Oliveira Andrade (Ed) Book: *Bioinspired Technology and Biomechanics* 2024. DOI: 10.5772/intechopen.114986
- 10 **M. Vlachou**, A. Siamidi C. Protopapa. Book chapter entitled "*3D printing Technologies for pharmaceutical applications*" in D. Lamprou. BOOK: "*Fundamentals and future trends of 3D printing in drug delivery*"____Paperback ISBN: 9780443236457 eBook ISBN: 9780443236464
- 11 I. Papoutsis, A. Siamidi, N. Lagopati, M. Gazouli, **M. Vlachou***, N. Pippa* Book chapter entitled "*Advancements in Omeprazole Formulations: from technological innovation to release strategies*" in Latest Research on Drug Formulation Design DOI: 10.5772/intechopen.1008362

- 12 **M. Vlachou**, A. Siamidi. Book chapter entitled "*Generic Drug Development & Biosimilars*" in D. Lamprou. BOOK: "Taylor & Francis Group / CRC Press book titled Drug Delivery: from fundamentals to the future" (in press)

5B. INVITED EDITOR

- Invited Academic Editor of the book entitled:
"Melatonin: *The Hormone of Darkness* and its Therapeutic Potential and Perspectives", INTECHOPEN 2020) London: IntechOpen; 2020. Available from: <https://www.intechopen.com/books/8762> ISBN: 978-1-83962-909-9 doi: 10.5772/intechopen.80180.
- Journal's Editorial Activities
 - 1 Invited Guest Editor to the themed issue on "3D-Printed Modified-Release Tablets" in *Pharmaceutics* (2020).
 - 2 Invited to the Reviewer Board (RB) for Scholars in *Entropy* (2020).
 - 3 Invited to the Reviewer Board (RB) for Scholars in *Nanomaterials* (2020).
 - 4 Invited Guest Editor to the themed issue on "Drug Delivery: Recent Developments and Future Prospects" in *Materials* (2020).
 - 5 Invited Lead Editor to the themed issue on "Obesity related ailments: recent non invasive treatments" in *Experimental and Therapeutic Medicine* (2022).
 - 6 Invited Guest Editor to the themed issue on "3D-Printed Modified-Release Tablets" in *Pharmaceutics* II (2023).
 - 7 Invited Guest Editor to the themed issue on "Drug Delivery: Recent Developments and Future Prospects" in *Materials* II (2023).
 - 8 Invited Guest Section Editor to the themed issue on "Delivery of nanomedicines" in *Nano Materials and Nano Drugs* (NMND) ISSN: 2811-0277 (Online) (2023).
 - 9 Invited Series Editor to the themed issue on "Delivery of nanomedicines" in *Nano Materials and Nano Drugs* (NMND) ISSN: 2811-0277 (Online) (2023).
 - 10 Review Editor on the Editorial Board Nanoscience specialty section of the *Frontiers in Chemistry* journal.
 - 11 Editorial Board of the open-access journal *Innovative Medicines & Omics* (IMO)
 - 12 User on the Editorial Manager site for *Drug Delivery and Translational Research*
 - 13 Invited member Editorial Board of the *International Journal of Epigenetics*
 - 14 Invited Guest Editor to the themed issue on "Design and Fabrication of state-of-the-art Materials for Drug Delivery Applications" in *Materials* (2024).
 - 15 Invited Guest Editor to the themed issue on "Next Generation Drug Delivery Technology and Drug Design" in *Applied Sciences* (2024).

RESEARCH WORK

The research activities, in the field of Pharmaceutical Physics/Pharmaceutical Technology, focus on:

- formulation and "*in vitro*" study of the release of bioactive substances from topical formulations.
- controlling the efficacy and safety of formulations in skin disease therapies.
- "*in vitro*" study of the controlled release of drug substances from polymer matrices and bioavailability issues of certain formulations.
- the effect of swelling of polymeric materials on drug release from controlled release tablets.

- study of the physical characteristics of cyclodextrins and their physicochemical interactions with melatonin, as well as the effects on the dissolution rate of solid pharmaceutical forms.
- study of pharmaceutical films as vectors for modified release systems.
- development and evaluation of multi-layer release systems.
- modified release study from solid formulations of novel pyrrolinoquinoline derivatives with cytotoxic activity.
- modified release of solid formulations of novel adamantane-aminoether compounds with anti-traumatic action.
- the physicochemical properties of new excipients of marine origin (Ulvans) and their application in the manufacture of solid pharmaceutical formulations.
- development of nanoparticulate substrates as active substance carriers for the study of their release.
- the design and fabrication of 3D-printed pharmaceutical formulations of different bioactive compounds.
- application of Artificial Intelligence/Machine Learning in predicting the release of bioactive substances from solid pharmaceutical forms

1A. PUBLICATIONS

1A1. PhD Thesis

M. Vlachou, "In vitro study and clinical evaluation of the efficacy of topical pharmaceutical formulations, Griseofulvin, Itraconazole, Setirizine dihydrochloride". Doctoral Thesis, Department of Pharmacy, University of Athens, Athens (1992).

1A2. Publication in International Peer-Reviewed Scientific Journals

- 1M. Vlachou**, D.M. Rekkas, P.P. Dallas and N.H. Choulis. Development and in vitro evaluation of Griseofulvin gels using Franz diffusion cells. *Int J Pharm*, 82, 47-52, (1992). DOI: 10.1016/0378-5173(92)90070-I
- 2D.** Rigopoulos, A. Katsambas, C. Antoniou, D. Polydorou, **M. Vlachou**, J. Stratigos. Tinea Versicolor treated with Fluconazole shampoo. *Int J Dermatol*, 31, 9, 664-665, (1992). DOI: 10.1111/j.1365-4362.1992.tb03992.x
- 3A.** Katsambas, C. Antoniou, E. Frangouli, **M. Vlachou**, J. Stratigos. Itraconazole in the treatment of Tinea Corporis and Tinea Cruris. *Clin Exp Dermatol*, 18, 322-325 (1993). DOI: 10.1111/j.1365-2230.1993.tb02207.x
- 4** Katsambas, Ch. Antoniou, E. Frangouli, **M. Vlachou**, D. Kardamakis, J. Stratigos. Comparison of the efficacy and tolerability of amorolfine 5% nail lacquer (ro 14-4767) once weekly versus twice weekly in the treatment of onychomycoses. *Nouv Dermatol*, 12, 216-220 (1993).
- 5M. Vlachou**, N.H. Choulis, A.G. Andreopoulos and M. Efentakis. The effect of modification of acrylic resins on controlled release and bioadhesion. *J Biomater Appl*, 10, 217-229, (1996). DOI: 10.1177/088532829601000303
- 6M.** Efentakis, **M. Vlachou** and N.H. Choulis. Effects of excipients on swelling and drug release from compressed materials. *Drug Dev Ind Pharm*, 23 (1), 107-112, (1997). DOI: 10.3109/03639049709148487
- 7M.** Efentakis and **M. Vlachou**. Evaluation of high molecular weight polyoxyethylene (Polyox) Polymer: Studies of flow properties and release rates of Furosemide and Captopril from controlled - release hard gelatin capsules. *Pharm Dev Technol*, 5 (3), 339-346, (2000). DOI: 10.1081/PDT-100100549

- 8 M. Efentakis, A. Koutlis, **M. Vlachou**. Development and evaluation of oral multiple-unit and single-unit hydrophilic controlled - release systems. *AAPS Pharm Sci Tech*, 1 (4) article 34, (2000). DOI: 10.1208/pt010434
- 9 **M. Vlachou**, N. Hani, M. Efentakis, P. Tarantili, A.G. Andreopoulos. Polymers for use in controlled release systems: The effect of surfactants on their swelling properties. *J Biomater Appl*, 15, (3), 65-77, (2000). DOI: 10.1106/GX1T-2JC6-QWC6-69GC
- 10 **M. Vlachou**, H. Nassef, M. Efentakis, P. Tarantili, A.G. Andreopoulos. Swelling properties of various polymers used in controlled release systems. *J Biomater Appl*, 15, (4), 293-306, (2001). DOI: 10.1106/RJ4E-95LE-46BT-PUK0
- 11 **M. Vlachou***, G. Papaioannou. Preparation and Characterization of the inclusion complex of Furosemide with Hydroxypropyl- β -cyclodextrin. *J Biomater Appl*, 17, (3), 197-206, (2003). DOI:10.1177/0885328203017003557
- 12 **M. Vlachou**, H. Naseef, M. Efentakis. Image analysis studies of dimensional changes in swellable hydrophilic polymer matrices. *Polym Adv Technol*, 15, 683-689, (2004). DOI: 10.1002/pat.531
- 13 M. Efentakis, S. Koligliati, **M. Vlachou**. Design and evaluation of a dry coated drug delivery system with an impermeable cup, swellable top layer and pulsatile release. *Int J Pharm*, 311, 147-156, (2006). DOI: 10.1016/j.ijpharm.2005.12.026
- 14 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). DOI: 10.1016/j.ijpharm.2005.10.044 **Βραβείο** Most cited paper award (DOI: 10.1016/j.ijpharm.2005.10.044): 13th Edition of International Research Data Analysis Excellence Awards, Σεπτέμβριος 2024
- 15 **M. Vlachou***, A. Eikosipentaki, V. Xenogiorgis. Pineal hormone melatonin: Solubilization studies in model aqueous gastrointestinal environments. *Curr Drug Deliv*, 3, 255-265, (2006). DOI : 10.2174/15672010677731073
- 16 M. Efentakis, I. Pagoni, **M. Vlachou**, K. Avgoustakis. Dimensional changes, gel layer evolution and drug release studies in hydrophilic matrices loaded with drugs of different solubility. *Int J Pharm*, 339, 66-75, (2007). DOI: 10.1016/j.ijpharm.2007.02.023
- 17 A. Tsotinis, **M. Vlachou**, M. Gerasimopoulou, A. Eikosipentaki, C. Ioannidis, A. Klouvidaki, P.A. Afroudakis, D. Moreau, C. Roussakis. Symmetrical Derivatives of C2-Substituted Pyrrolo[2,3-*f*]quinolines: Synthesis, Cytotoxicity and Drug Delivery Studies. *Lett Drug Des Discov*, 4, 87-91, (2007). DOI: 10.2174/15701800779422488
- 18 **M. Vlachou***, A. Tsiakoulia, A. Eikosipentaki. Controlled release of the pineal hormone melatonin from hydroxypropylmethylcellulose/sodium alginate matrices in aqueous media containing dioctyl sulfosuccinate. *Curr Drug Discov Technol*, 4, 31-38, (2007). DOI: 10.2174/157016307781115449
- 19 **M. Vlachou**, H. Naseef, M. Efentakis. Utilization of hydrophilic swellable polymers as carriers for sustained drug delivery from matrices and three layer tablet systems. *Curr Drug Delivery*, 7, 334-42, (2010). DOI: 10.2174/156720110793360568
- 20 M. Efentakis, N. Hani, **M. Vlachou**. Two and three-layer tablet drug delivery systems for oral sustained release of soluble and poorly soluble drugs *Drug Dev Ind Pharm*, 36(8), 903-916, (2010). DOI: 10.3109/03639040903585119
- 21 N. Varvarigou, G. Megariotis, G. Leonis, E. Vrontaki, A.-M. Maniati, **M. Vlachou**, A. Eikosipentaki, R. Kompogennitaki, M.G. Papadopoulos, S.G. Grdadolnik, D. Komiotis, T. Mavromoustakos, A. Tsotinis. 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). DOI: 10.1016/j.bmc.2012.09.012
- 22 **M. Vlachou***, V. Ioannidou, M. Vertzoni, A. Tsotinis, P. Afroudakis, D. Sugden. Controlled Release from Solid Pharmaceutical Formulations of two *N*-alkanoyl-4-

- methoxybicyclo[4.2.0]octa-1,3,5-trien-7-ethanamines with Melatoninerbic Activity. *Lett Drug Des Discov*, 12, 259-262, (2015). DOI: 10.2174/1570180811666141024005226
- 23 **M. Vlachou***, A. Siamidi, I. Pareli, A. Zampakola, S. Konstantinidou. An Account of Modified Release of Melatonin from Compression-coated, Uncoated and Bilayer Tablets. *J Pharm Pharm Scien*, 1(4), 10-14, (2016). DOI: 10.24218/vjpps.2016.19
 - 24 **M. Vlachou***, A. Siamidi, S. Konstantinidou, Y. Dotsikas. Optimization of controlled release matrix formulation of melatonin via experimental design. *J Pharm Drug Deliv Res*, 5(6), 1-5, (2016). DOI: 10.4172/2325-9604.1000159
 - 25 A. Zampakola, A. Siamidi, N. Pippa, C. Demetzos, **M. Vlachou***. Chronobiotic Hormone Melatonin: Comparative *in vitro* Release Studies from Matrix Tablets and Liposomal Formulations *Lett Drug Des Discov*, 14(4), 476-480, (2017). DOI: 10.2174/1570180813666161006162246
 - 26 **M. Vlachou***, A. Siamidi, M. Efentakis. Investigation of a Novel "Tablets in Capsule" Theophylline Formulation System for Modified Release. *Pharm Pharmacol Int J*, 5(2) 00115, 1-7, (2017). DOI: 10.15406/ppij.2017.05.00115
 - 27 **M. Vlachou***, A. Siamidi, E. Diamantidi, A. Iliopoulou, I. Papanastasiou, V. Ioannidou, V. Kourbeli, A.-S. Foscolos, A. Vocat, S.T. Colec, V. Karalis, T. Kellici, T. Mavromoustakos. In vitro Controlled Release from Solid Pharmaceutical Formulations of two new Adamantane Aminoethers with Antitubercular Activity (I) *Drug Res*, 67(8), 447-450, (2017). DOI: 10.1055/s-0042-121491 (2017)
 - 28 **M. Vlachou***, A. Siamidi, D. Spaneas, D. Lentzos, P. Ladia, K. Anastasiou, I. Papanastasiou, A.-S. Foscolos, M.-O. Georgiadis, V. Karalis, T. Kellici, T. Mavromoustakos. *In vitro* Controlled Release of two new Tuberculocidal Adamantane Aminoethers from Solid Pharmaceutical Formulations (II). *Drug Res*, 67(11), 653-660, (2017). DOI: 10.1055/s-0043-114012
 - 29 **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
 - 30 **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
 - 31 **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: 10.1016/j.xphs.2018.09.035
 - 32 **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.
 - 33 **M. Vlachou***, G. Stavrou, A. Siamidi, S. Flitouri, V. Ioannidou, S. Mavrokordopoulos. *N*-Acetylserotonin vs Melatonin. *In vitro* Controlled Release from Hydrophilic Matrix Tablets. *Lett Drug Des Discov*, 16, 347-352, (2019). DOI: 10.2174/1570180815666180404125519
 - 34 **M. Vlachou***, A. Siamidi, Y. Dotsikas. Desirability based optimization of Mesalazine modified release formulations: mini tablets in capsules and compression coated tablets. *Lett Drug Des Discov*, 17(2), 114-123, (2020). DOI:10.2174/1570180816666190110125812

- 35 **M. Vlachou***, A. Siamidi, E. Geraniou. Modified release of furosemide from Eudragits® and poly(ethylene oxide)-based matrices and dry-coated tablets. *Acta Pharm*, 70, 49-61, (2020). DOI: 10.2478/acph-2020-0010
- 36 **M. Vlachou***, A. Siamidi, N. Pippa, N. Fikioris. Vitamin C fast action tablets by Doctor's Formulas' Food Supplements: Evaluation of matrix properties. *Adv Sci Eng Med*, 11, (2019). DOI:10.1166/asem.2019.2451
- 37 E. Kotroni, E. Simirioti, S. Kikionis, I. Sfiniadakis, A. Siamidi, V. Karalis, A. Vitsos, **M. Vlachou**, E. Ioannou, V. Roussis, M. Rallis. In vivo evaluation of the anti-inflammatory activity of electrospun micro/nanofibrous patches loaded with *Pinus halepensis* bark extract. *Materials*, 12, 2596, (2019). DOI:10.3390/ma12162596
- 38 A. Papageorgiou, A-S Foscolos, I. Papanastasiou*, **M. Vlachou***, A. Siamidi, A. Vocat, S.T. Cole, T. Kellici, T. Mavromoustakos, A. Tsotinis. Design, Synthesis, Biology, Computational Studies and in vitro Controlled Release of new Isoniazid-based Adamantane Derivatives with Antitubercular Activity. *Future Med Chem*, 11(21), 2779-2802, (2019). DOI: 10.4155/fmc-2019-0038
- 39 **M. Vlachou***, S. Kikionis, A. Siamidi, S. Kyriakou, A. Tsotinis, E. Ioannou, V. Roussis* Development and Characterization of Eudragit®-based Electrospun Nanofibrous Mats and their Formulation into Nanofiber Tablets for the Modified Release of Furosemide. *Pharmaceutics*, 11(9), 480-93, (2019). DOI:10.3390/pharmaceutics11090480
- 40 **M. Vlachou***, I. Papanastasiou*, M.O. Georgiadis, A. Tsakoumagkou, Z. Siskos, A. Siamidi, A. Konstantinou, A. Vocat, S. T. Cole. Design, Synthesis and in vitro Controlled Release of new Adamantanodiarylketone Antimycobacterials. *ChemistrySelect*, 4, 11048-11051, (2019). DOI: 10.1002/slct.201902283
- 41 **M. Vlachou***, A. Siamidi, M. Tsentseri, M. Rallis. Applications of nanofibers in skin related ailments and drug delivery *Pharmakeftiki*, 31(3), 105-112, (2019).
- 42 **M. Vlachou***, A. Siamidi, N. Pippa, N. Fikioris. Fast sleep onset pharmaceutical formulation of the chronobiotic hormone melatonin. *Adv Sci Eng Med*, 12(3), 439-442(4), (2020). DOI: 10.1166/asem.2020.2542
- 43 **M. Vlachou***, A. Siamidi, Y. Dotsikas. Utilization of a single experimental design for the optimization of furosemide modified release tablet formulations. *Curr Drug Deliv*, 16(10), 931-939 (2019). DOI: 10.2174/1567201816666191029130324
- 44 **M. Vlachou***, A. Siamidi, E. Goula, P. Georgas, N. Pippa, V. Karalis, T. Sentoukas, S. Pispas. Probing the release of the chronobiotic hormone melatonin from hybrid calcium alginate hydrogel beads. *Acta Pharm*, 70, 527-538 (2020). DOI:10.2478/acph-2020-0037
- 45 **M. Vlachou***, N. Pippa, A. Siamidi, A. Kyrili, Thermal analysis studies on the compatibility of furosemide with solid state and liquid crystalline excipients. *Chem Ind*, 74(1), 15-23, (2020). DOI: 10.2298/HEMIND190910002V
- 46 A. Siamidi, **M. Vlachou**, M. Efentakis New dosage forms for the delayed release of mesalazine to the colon. *Int J App Pharm*, 12(4), 192-196, (2020). DOI:10.22159/ijap.2020v12i4.37816
- 47 V. Karava, A. Siamidi, **M. Vlachou***, E. Christodoulou, A. Zamboulis, D. Bikiaris, A. Kyritsis, P. Klonos*, Block Copolymers based on Poly (butylene adipate) and Poly (L-lactic acid) for Biomedical Applications: Synthesis, Structure and Thermo-Dynamical Studies. *Soft Matter*, 17, 2439-2453 (2020). DOI:10.1039/D0SM02053B
- 48 **M. Vlachou**, V. Karalis*, An In Vitro—In Vivo Simulation Approach for the Prediction of Bioequivalence. *Materials*, 14(3), 555; (2021). DOI: 10.3390/ma14030555
- 49 **M. Vlachou***, A. Siamidi, A. Dedeloudi, S. Konstantinidou, I. Papanastasiou. Pineal hormone melatonin as an adjuvant treatment for COVID-19. *Int J Mol Med*, 47(4), (2021). DOI: 10.3892/ijmm.2021.4880
- 50 A. Siamidi, A. Dedeloudi, **M. Vlachou*** Probing the release of bupropion and naltrexone hydrochloride salts from biopolymeric matrices of diverse chemical structures. *Polymers*, 13(9), 1456; (2021), DOI: 10.3390/polym13091456

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1A3. Publication in Greek Scientific Journal

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1B. PARTICIPATIONS TO INTERNATIONAL CONFERENCES & SYMPOSIUMS

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- 76 **M. Vlachou**, A. Siamidi, A. Dedeloudi, K. Antonara, E. Tseliki, D.-A. Vlassi, G.-I. Sotiropoulou, A.-S. Foscolou, I.P. Papanastasiou. In vitro modified-release of the cytotoxic agents, 4-[4,4-diphenyl-4-(1-tricyclo[3.3.1.1^{3,7}]decyl)butyl)-1-methylpiperazine and 1-methyl-4-{3-[4-[α-(1-adamantyl) phenylmethyl]phenyl]propyl}piperazine from matrix tablets *13th PBP World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology* Poster: 71 (Rotterdam, The Netherlands 28 - 31 March 2022).
- 77 G. Giannakopoulou, P. Pavlou, P. Papageorgiou, A. Siamidi, **M. Vlachou**, A. Varvaresou. Echinacea and Propolis phytoconstituents: Design of a novel combination with in vitro Sun Protection Factor (SPF) boosting properties and its use in developing broad-spectrum sunscreen formulations. *70th International Congress and Meeting of the Society for the Medicinal Plant and Natural Product Research*, Abstract page:1560, poster: P-341 (Thessaloniki, 28-31 August 2022) *Planta Med* 2022; 88(15): 1560 DOI: 10.1055/s-0042-1759311
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 - 80 C. Protopapa, **M. Vlachou**, A. Siamidi, E. Christodoulou, N.D. Bikiaris Comparison of the release profiles of melatonin from matrix tablets containing poly(ϵ -caprolactone) and copolymers. *9th BBBB Conference on Pharmaceutical Sciences*, Abstract page:141, pp: 40 (Ljubljana, Slovenia 5-17 September 2022)
 - 81 C. Protopapa, I. Chari, **M. Vlachou**, A. Siamidi, A. Sakellaropoulou, R. Kompogennitaki, N. Efstathiou, I. P. Papanastasiou Modified release of two new melatoninergic x-fluoro-y-methoxy-substituted phenylalkylamides from matrix tablets. *4th European Conference on Pharmaceutics* Abstract page:19, pp: 122 (Marseille, France 20 - 21 March 2023)
 - 82 C. Protopapa, A. Siamidi, K. Konstantopoulos, E. Karadimitriou, **M. Vlachou**, Naltrexone/Bupropion hydrochloride salts: bi-layered matrix tablets design, preparation and in vitro release studies. *4th European Conference on Pharmaceutics*, Abstract page:19, pp: 121 (Marseille, France 20 - 21 March 2023)
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 - 84 F. Kalogeropoulou, D. Papailiou, C. Protopapa, A. Siamidi, N. Pippa, **M. Vlachou**, Design and development of low and medium viscosity alginate beads loaded with Pluronic 188 nano-micelles. *Bioavailability Bioequivalence From Classification to Virtualisation and anything in between*. Oral presentation (Athens, 22-23 May 2023)
 - 85 C. Protopapa, A. Siamidi, I. Sotiropoulou, G. Semertzoglou, S. Kolokouris, **M. Vlachou**. Formulation and evaluation of omeprazole dry coated tablets for duodenal ulcer. *UKICRS Symposium* (London, UK 8-9 June 2023)
 - 86 C. Protopapa, I. Sotiropoulou, A. Siamidi and **M. Vlachou** Formulation and evaluation of omeprazole dry coated tablets for paediatric use. *15th Eu PFI Conference 2023* (Glasgow, 19-21 September 2023)
 - 87 C. Protopapa, K. Tzamalīs, P. Madouros, A. Siamidi, **M. Vlachou**. In Vitro modified release of hydrocortisone paediatric mini-tablets. *14th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology* Book of abstracts, Poster No 8, pp. 20 (Vienna, Austria, 18 - 21 March 2024)
 - 88 C. Protopapa, A. Siamidi, D. Douroumis, **M. Vlachou**. Preparation of modified release bupropion tablets with the use of stereolithography (SLA) 3D printer. *14th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology* Book of abstracts, Poster No 223, pp 42 (Vienna, Austria, 18 - 21 March 2024)
 - 89 C. Protopapa, G.I. Sotiropoulou, A. Siamidi, E. Rizos, N. Bikiaris, I. Koumentakou, E. Christodoulou, **M. Vlachou**. In vitro modified release of omeprazole, from matrix tablets. *14th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology* Book of abstracts, Poster No 190, pp 28 (Vienna, Austria, 18 - 21 March 2024)
 - 90 C. Protopapa, A. Siamidi, D. Douroumis, **M. Vlachou**. Preparation of CBD buccal films with the use of Digital Light Processing (DLP) 3D printer *UKICRS Workshop & Symposium* (<https://www.ukicrs.org/abstracts-2024.html>) (Cardiff, UK, 7 June 2024)
 - 91 C. Protopapa, G. Bolbasis, A. Trikali, N. Bikiaris, P. Saranti, R. Ioannidis, A. Siamidi, **M. Vlachou** Formulation of modified release melatonin tablets comprised of new polylactic acid (PLA) derivatives *UKICRS Workshop & Symposium* (<https://www.ukicrs.org/abstracts-2024.html>) (Cardiff, UK, 7 June 2024)
 - 92 C. Protopapa, A. Siamidi, D. Douroumis, **M. Vlachou**. Development and in-vitro modified release of bupropion 3D-printed mucoadhesive buccal films *CRS Annual Meeting and Expo* Poster No 1083, pp 69 (Bologna, Italy, 8-12 July 2024)

- 93 C. Protopapa, A. Siamidi, D. Douroumis, **M. Vlachou**. Modified release of Bupropion from 3D printed tablets with Braille patterns for visually impaired patients *CRS Annual Meeting and Expo* Poster No 994, pp 66 (Bologna, Italy July 8-12 2024)
- 94 C. Protopapa, A. Siamidi, D. Douroumis, **M. Vlachou**. Modified release of 3D-printed melatonin tablets with Braille patterns designed for individuals with visual impairments *CRS Annual Meeting and Expo* Poster No 995, pp 66 (Bologna, Italy July 8-12 2024)
- 95 C. Protopapa, G.M. Bolmpasis, A. Trikali, A. Siamidi, N.D. Bikiaris, R. O. Ioannidis, **M. Vlachou**. Melatonin laden polylactic acid/pentaerythritol tablets: *in vitro* modified release studies *CRS Annual Meeting and Expo* Poster No 1165, pp 72 (Bologna, Italy July 8-12 2024)
- 96 C. Protopapa, A. Siamidi, D. Douroumis, **M. Vlachou**. Development of Cannabidiol Orodispersible Silica-based Tablets compounded with ω 3-fatty acids *CRS Annual Meeting and Expo* Poster No1169, pp 73 (Bologna, Italy July 8-12, 2024)
- 97 C. Protopapa, L. A. Junqueira, S. S Kolipaka, A. Siamidi, D. Douroumis, **M. Vlachou**. 3D- printed mucoadhesive thin-films using Digital Light Process *15th APS PharmSci* (Huddersfield, United Kingdom, September 4-6, 2024)
- 98 C. Protopapa, A. Siamidi, D. Douroumis, **M. Vlachou** Comparison of three different sizes of Bupropion buccal films with the utilization of LCD 3D printer. *10th BBBB International conference on pharmaceutical sciences*, Book of abstract, pp 54-55 Oral Presentation (Tartu, Estonia 12-14 September 2024)
- 99 S. Roumpou, C. Protopapa, A. Siamidi, **M. Vlachou**. Development and evaluation of omeprazole and esomeprazole, magnesium-based delayed-release, tablet formulations, for paediatric use. *16th EuPFI Conference 2024. Formulating better medicines for children*. pp 18, (Rotterdam, The Netherlands, 17-19 September 2024)
- 100 N. Pippa, A. Siamidi, **M. Vlachou** Design and development of controlled release systems: Versatility in drug formulation. *11th Edition of Global Conference on Pharmaceutics and Novel Drug Delivery Systems*. Oral presentation (Rome, Italy, 19-21 September, 2024)
- 101 C. Protopapa, A. Siamidi, D. Douroumis, **M. Vlachou**. Naltrexone and bupropion bilayer 3D printed tablets as potential antiobesity agents. *Metabolic Surgery Study Group (MSSG) annual meeting on Bariatric surgery, drugs: How obesity will be treated tomorrow?* (Lyon, France, 15-16 November, 2024)
- 102 C. Protopapa, M. Elbadawi, A. Siamidi, **M. Vlachou** Machine Learning predicts the kinetic parameters of direct compression tablets. European Federation for Pharmaceutical Sciences (EUFEPS) annual meeting 2025. Oral presentation (Vienna, Austria, 19-21 February, 2025)
- 103 C. Protopapa, A. Siamidi, D. Douroumis, **M. Vlachou** Preparation of bupropion hydrochloride tablets with the use of the direct extrusion screw-based technology. European Federation for Pharmaceutical Sciences (EUFEPS) annual meeting 2025. Oral presentation (Vienna, Austria, 19-21 February, 2025)
- 104 C. Protopapa, A. Siamidi, D. Douroumis, **M. Vlachou** Utilization of polyox 80 and polyox 205N for the fabrication of bupropion hydrochloride printlets via direct pellet extrusion. 5th European Conference on Pharmaceutics (Porto, Portugal 24-25 March 2025)
- 105 C. Protopapa, A. Siamidi, D. Douroumis, **M. Vlachou**. Fabrication of surfactant Labrafac MC60 CBD-based Buccal Films in Four Different Sizes Using LCD 3D Printing Technology 5th European Conference on Pharmaceutics (Porto, Portugal 24-25 March 2025)
- 106 C. Protopapa, A. Siamidi, D. Douroumis, **M. Vlachou**. Development of a potential drug delivery vehicle in the form of a tablet utilizing LCD 3D Printing Technology. 5th European Conference on Pharmaceutics (Porto, Portugal 24-25 March 2025)
- 107 C. Protopapa, S. Roumpou, A. Siamidi, **M. Vlachou**. Development of Esomeprazole Dry Coated Tablets for Paediatric Use: In Vitro Release Profile. 5th European Conference on Pharmaceutics (Porto, Portugal 24-25 March 2025)
- 108 C. Protopapa, I. Tschlis, **M. Vlachou**, C. Demetzos. Application of Machine Learning in the Drug Development Process. 6th International Interdisciplinary Chaos Symposium on Chaos and Complex Systems (Instabul 8-10 May 2025)

- 109I. Tsiachlis, C. Protopapa, **M. Vlachou**, C. Demetzos. Translating Mitochondrial Complexity Into Drug Delivery Design. 6th International Interdisciplinary Chaos Symposium on Chaos and Complex Systems (Instabul 8-10 May 2025)
- 110C. Protopapa, I. Tsiachlis, C. Demetzos, M. Vlachou Freeze-dried Self-Microemulsifying Drug Delivery Systems and Lipidic Nanoparticles for Enhancing Oral Delivery of Cannabidiol. AAPS 2025 PHarmSCi 360, (San Antonio, Texas, USA, 9-12 November, 2025)
- 111C. Protopapa, K. Anagnostopoulou, E. Melissourgou, A. Siamidi, M. Vlachou. Development and In Vitro Evaluation of Modified Release Bupropion Hydrochloride Tablets for Enhanced Drug Delivery, AAPS 2025 PHarmSCi 360, (San Antonio, Texas, USA, 9-12 November, 2025)
- 112C. Protopapa, A. Siamidi, M. Elbadawi, M. Vlachou. Machine Learning Predicts Drug Release Profiles Based on Tablets' Formulations, AAPS 2025 PHarmSCi 360, (San Antonio, Texas, USA, 9-12 November, 2025)
- 113 C. Protopapa, A. Siamidi, L. A. Junqueira, M. Vlachou, D. Douroumis Thermal Characterization of 3D Printed Mucoadhesive Bupropion Hydrochloride Buccal Films Fabricated via LCD Technology, 17th Mediterranean Conference on Calorimetry and Thermal Analysis (9-11 July, Thessaloniki, Greece)
- 114C. Protopapa, A. Siamidi, L. A. Junqueira, M. Vlachou, D. Douroumis Thermal Characterization of 3D Printed Mucoadhesive Bupropion Hydrochloride Buccal Films Fabricated via LCD Technology, 17th Mediterranean Conference on Calorimetry and Thermal Analysis (9-11 July, Thessaloniki, Greece)

1B3. INVITED SPEAKER IN INTERNATIONAL CONFERENCES

- 1**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)
- 2**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)
- 3**M. Vlachou**. Desirability-based optimisation of Diclofenac sodium modified release from dry coated tablets in 3rd Global Pharmaceutical Conference and Expo on Pharma research for Industry demands (London 3-5 July 2019)
- 4**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)
- 5**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)
- 6**M. Vlachou**. Electrospun nanofibers and modified drug release in the 31st Assembly of advanced materials congress in USA (Miami, 8-13 December 2019)
- 7**M. Vlachou**. 3D-Printed oral dosage forms: Mechanical properties, applications, computational approaches and artificial intelligence input (Dubai, 10-12 October 2022)
- 8**M. Vlachou**. New approaches towards the pharmacological treatment of obesity in 5th International Conference on Obesity and Diet Imbalance (Rome, 8–9 December 2022)
- 9**M. Vlachou**. Confronting obesity via new orally administered naltrexone/bupropion 3D-printed tablet formulations. 7th International Conference on Pharmaceutical Science and Modern Drug Delivery Systems (UK city of London, March 27–29, 2023) J Med Chem, Volume 13, Book of Abstracts p 19
- 10 **M. Vlachou**. Recent advances on obesity pharmacotherapy 12th International Conference of Obesity and Eating Disorder. Theme: New Emerging Challenges in Obesity and their Prevention (Vienna, Austria, 10-11 April 2023) <https://obesity.euroscicon.com/registration>

- 11 **M. Vlachou.** Polypharmacotherapy in obesity treatment at 6th International Conference on Obesity and Chronic Diseases Novel Therapeutic and Dietary Management for Obesity and Chronic Diseases (London UK, 22-23 June 2023)
- 12 **M. Vlachou.** Alginate/Pluronic[®] F-127 nanomicelles: a nanobiotechnological platform for drug Delivery applications at International conference on Nano biotechnology for Food, Agriculture and Health (ICNFAH-23) (Chicago, USA, 15th September 2023)
- 13 C. Protopapa, A. Siamidi, D. Douroumis, **M. Vlachou.** Preparation of hydrocortisone mini tablets using direct powder microextrusion. International conference on medical, medicine and health sciences (ICMMH) (Boston, USA, 23-24 October 2023)
- 14 **M. Vlachou,** I. Papanastasiou, A. Siamidi, M.O. Georgiadis, A. Tsakoumagkou, Z. Siskos, A. Konstantinou In vitro release profiles of newly synthesized compounds with antitubercular activity. 5th International Conference on Infectious Disease Medicine and Infectious Diseases – International Conference on Infectious Disease Medicine and Infectious Diseases - (ICIDMID-23) (Boston, USA, 24-25 October 2023)
- 15 **M.Vlachou,** C. Protopapa, A. Siamidi. The use of stereolithography in the fabrication of 3D modified release melatonin printlets. International Conference on Sustainable Development, Information Technology, Systems Engineering, Forestry & Applied Science (Paris, France, 7-8 December 2023)
- 16 **M. Vlachou.** Modified release of the chronobiotic natural product melatonin CIVIS BIP Program. Natural products: applications, formulations (Athens 1-21 October 2024)
<https://civis.eu/en/learn/civis-courses/natural-products-applications-formulations>

1B4. Online access encyclopedias

- Scholarly Community Encyclopedia, Topic review: Nano Skin Care Formulations, Subjects: Nanoscience & Nanotechnology. <https://encyclopedia.pub/16185>
- Scholarly Community Encyclopedia, Topic review: Novel Excipients Used in Modified Release Vaginal Formulations. <https://encyclopedia.pub/19396>
- Scholarly Community Encyclopedia, Topic review: Melatonin/Cyclodextrin Inclusion Complexes. <https://encyclopedia.pub/19531>

2. REVIEWER OF RESEARCH ARTICLES

- *ACS Applied Polymer Materials*
- *African Journal of Pharmaceutical Sciences and Pharmacy*
- *American Chemical Society Books Publications Reviewer*
- *Antioxidants*
- *Applied Sciences*
- *Bioengineering*
- *Biomedicines*
- *Biomolecules*
- *Carbohydrate Polymers*
- *Cells*
- *Coatings*
- *Colorants*
- *Drug Delivery and Translational Research*
- *European Journal of Pharmaceutical Sciences.*
- *Experimental and Therapeutic Medicine*
- *Fibers*
- *Foods*
- *Food Chemistry*
- *Gels*
- *Heliyon*
- *International Journal of Molecular Sciences*

- *International Journal of Pharmaceutics*
- *Journal of Analytical Methods in Chemistry.*
- *Journal of Drug Delivery Science and Technology*
- *Journal of Functional Biomaterials (JFB)*
- *Journal of Inclusion Phenomena and Macrocyclic Chemistry.*
- *Journal of Polymer Science*
- *Langmuir*
- *Letters in Drug Design and Discovery*
- *Materials*
- *Materials Letters*
- *Medical Science Monitor*
- *Molecules*
- *Nanomaterials*
- *Nutrients*
- *Oncology letters*
- *Pharmaceuticals*
- *Pharmaceutics*
- *Photonics*
- *PLoS ONE*
- *Polymer Bulletin*
- *Polymers*
- *Processes*
- *Psychoactives*
- *Results in Chemistry*
- *Saudi Pharmaceutical journal*
- *Trends in Food Science and Technology*

3. EDITORIAL BOARDS SCIENTIFIC JOURNALS MEMBER

- American Research Journals (ARJ)-American Research Journal of Pharmacy
- Journal of Pharma and Pharmaceutical Sciences
- Journal of Pharmaceutical science and experimental pharmacology
- Pharmacy & Pharmacology International Journal
- PLoS ONE
- Pharmaceutics (Guest Editor)
- Materials (Guest Editor)
- Helyion (Associate Editor)

ADMINISTRATIVE DUTIES

DEPARTMENT OF PHARMACY COMMITTEES' MEMBER

- 2001-2010: Time Schedule Committee & Exams Program Member
- 2003-2019: Educational Programs Committee Member
- 2018-: Coordinating Committee Member of "Industrial Pharmacy" Postgraduate Studies
- 2019-2020: Coordinating Committee "Students Open Day"
- 2019-: Overseer of the Department of Pharmacy building complex (αριθ. 113/19-9-2019)
- 2010-: Pharmacy Professional Competence Exams Committee Member
- 2007-: Faculty of Pharmacy Placement Exams Committee Member
- 2020-: Academic fellow in charge of the program ERASMUS+ (bilateral collaboration G ATHINE01 and CY NICOSIA23), in the context of the cooperation agreement between the NKUA Pharmacy Department and the Frederick University of Cyprus

- 2021- Person in charge of COVID-19 infections - Pharmacy Department incidents recording (ref: 83552/18-10-2021).
- 2022- : Person in charge of the NKUA Pharmacy Department Programme "Energy Savings: Measures for the energy's improvement efficacy and saving in buildings of the public sector" (ΥΠΕΝ/ΔΕΠΕΑ/68315/502/1-7-2022 KYA (B' 3424). <https://publicenergysavings.gov.gr/admin/in/structures>
- 2023- : Full member of the Research Institute "Clinical and Translational Research and Clinical Studies" of the National and Kapodistrian University of Athens, founded in the context of the University's center of Research and Innovation (ΠΑ.Κ.ΕΚ.)
- 2024- : Coordinating Committee Member of "Cosmetology-Dermatopharmacology" Postgraduate Studies

RESEARCH PROGRAMS

1. ASSESSMENTS OF RESEARCH PROGRAMS/PROJECTS

- 1 Evaluation of research proposals by the Cyprus Research Promotion Foundation (NTSO of Research and Technological Development Programs 2003-2005).
- 2 Evaluation of research proposals of the 2014-2020 Operational Program: Human Resources Development, Education and Lifelong Learning.
- 3 Assessment of IKY research projects in the context of the Action, entitled «Support of postdoctoral fellows – B' cycle», ΕΣΠΑ 2014-2020.
- 4 Assessment of the candidacies of applicants of the Action «Gaining Academic Educational Experience of PhD holders, 2019-2020 of the National and Kapodistrian University of Athens», ΕΣΠΑ 2014-2020.
- 5 Assessor of "Synergistic Innovative Clusters" (Organised and funded by the Greek General Secretariat of Research and Development, Programme: 26442/6.3.2020).
- 6 Member of the Assessment Committee for Appeals on Research Projects Funding Applications (B02ENΣ15) submitted within the framework of Intervention II of the B' cycle of the single action of state aid: Research – Create – Innovate in the thematic area Health & Drugs (Ministry of Development and Investment Special Management and Implementation Service of Actions in the Sectors of Research, Technological Development, and Innovation (ΕΥΔΕ ΕΤΑΚ, 23.12.2020 Prot. No.: ΕΥΔΕ ΕΤΑΚ 6067).
- 7 Expert Opinion Provision on Expenses Attestation Demands of Industries' Research and Technology Departments (2020).
- 8 Member of the Advisory Working Group of the "Health and Drugs" sector of the National Strategic Research and Innovation, for the period 2021-2027
- 9 Member of the Committee for the Assessment/Certification of Applications for the Automated Medication Reimbursement (CLAWBACK_01.01.2021-31.07.2021)
- 10 Evaluation expert of the submitted aid request applications in the framework of the Action "Reform of the Clawback System & its Compensation with Research & Investment Funding" (OPS Code TA 5150266)", of the Recovery and Resilience Fund in Axis 3.3: Strengthening Accessibility, Efficiency and Health System Quality 2022.
- 11 Provision of expert opinion on the Certification of Businesses R&T directed funding (2020), following the relevant decision of the Secretary General of Research and Innovation on: "Paid assignment of experts for the evaluation of submitted funding applications, under the Action: Collaborative Innovation Consortia/SSK 2nd call: Businesses".
- 12 COST (SC Collaborative Space) 2023: Scientific Committee member.
- 13 Evaluator of the action "Third / 3rd Amendment of Decision No. 96693 - 17-09-2020 on the subject: "Assignment to experts and determination of remuneration, for the evaluation and certification of the physical object of the submitted businesses proposals for the scientific and technological research assessment of expenses in

pursuance of the article 22A of Law 4172/2013 for the fiscal year 2018 and thereafter" (ADA Ψ3Y46MTAP-IN6)

- 14 Member of the Evaluation Committee for the Research and Development Project Support Requests (R&D projects) within the Action "Reform of the Clawback System & Its Consent With Research & Investment Expenditure" period 2024-2025.

2. PARTICIPATIONS/IN CHARGE OF RESEARCH PROGRAMS

1. Two-Year Research Program 70/2/1283, funded by the General Secretariat for Research and Technology entitled: "Polymer-controlled release drug-based systems" (1993-1994). Budget: 13,610,000 drachmas.
2. Research Program KA 70/4/4039, funded by the Research Committee of the University of Athens, entitled "Study of Biological Liquids and Physicochemical Properties of Gastric Fluids and Their Role in the Solubilization of Drugs" (1996). Budget: 500,000 drachmas.
3. Research Program 70/4/3228, funded by the Research Committee of the University of Athens, entitled: "Study and evaluation of polymers and their mixtures with bioadhesive properties. Applications in controlled release products "(1997). Budget: 500,000 drachmas.
4. Research Program K.A. 70/4/4034, funded by the Research Committee of the University of Athens, entitled "Development and Comparative Study of controlled-release products of multi-layer tablet and microdisks" (1998). Budget: 600,000 drachmas.
5. Research Program 70/4/4948, funded by the Research Committee of the University of Athens, entitled "Study of corrosion of polymer materials used in controlled release forms and their effect on the release of pharmaceuticals from them" (1999). Budget: 1,300,000 drachmas.
6. Research Program K.A. 70/4/5856, funded by the Research Committee of the University of Athens entitled "Development and Evaluation of Multiple Unit Systems (2001). Budget: 550,000 drachmas.
7. Scientific Coordinator of the "KAPODISTRIAS" Research Program (KA 70/4/3228), funded by the Research Committee of the University of Athens, entitled "Study of expanding and non-swelling hydrophilic polymers and estimation of the effect of the solubility of various drugs on the release from solid formulations "(2003). Budget: 2000 €.
8. Scientific coordinator of the "KAPODISTRIAS" Research Program of the University of Athens entitled "New Indole Melanergic Derivatives: Synthesis and Controlled Release of Solid Phosphate Forms" (2004). Approved budget: € 2700.
9. Scientific coordinator of the Greek research team in the Joint Research & Technology Program (2004-2006), Greece-Slovenia, entitled "New Pyrroloquinoline Compounds: Biological Activity and Controlled Release Studies". Approved budget: 11740 €.
10. Jointly responsible for the Competitive Research Program EPEAEK II "PYTHAGORAS II" (2005-2008) entitled "Synthesis and Controlled Release Studies of Solid Philadelphia Forms of New Analogues of Indole with Melatoninerbic Activity". Approved budget: 37000 €.
11. Scientific Coordinator of the "KAPODISTRIAS" Research Program of the University of Athens entitled "1. New indole melatoninerbic derivatives: sustained release formulation and studies from Solid Ph. 2. New Melatonin Hormone Agonists: Synthesis and Controlled Release of Solid Phosphate Forms "(2006). Approved budget: € 2700.
12. Scientific Coordinator of the "KAPODISTRIAS" Research Program of the University of Athens entitled "1. New indole melatoninerbic derivatives: sustained release formulation

and studies from Solid Ph. 2. New melatonin hormone antagonists: Composition and controlled release studies of solid pharmaceutical forms. 3. New melatoninergic derivatives of bicyclo (4.2.0) octa-1,3,5-triene: Synthesis and studies of controlled release from solid pharmaceutical forms "(2008). Approved budget: € 2500.

13. Participation in the "HEALTH HUB-EKPSK Programme for the transformation of the Health and Medicine sector with the use of artificial intelligence digital services" with OPS Code 6001682 of the Programme "Competitiveness 2021-2027" - University of Athens Research Funds Special Account (ELKE 189.925,00 Euro)
14. Principal Investigator of the Research Programme, entitled "Chronobiotic hormone melatonin: Design and development of new pharmaceutical formulations" Uni-Pharma Kleon Tsetis Pharmaceutical laboratories – Laboratory of Pharmaceutical Technology" (ELKE: KE 19068, 2021-2023, Total budget: 21.158,40 €)
15. Scientific collaborator to the HORIZON-MISS-2021-CANCER-02, Project 101097094, funded by the Horizon Europe research and innovation program of the European Union. Total EU budget: € 9,000,000
16. Participation/Supervision of the EL.ID.EK.Program (KE: 21080) for the funding of PhD Candidates, 2024-2027. PhD candidate: Ms. Chrystalla Protopapa. Program Title: "Design and preparation of Bupropion and Naltrexone tablets: modified release studies". Approved budget: 22.500 €
17. Principal Investigator of the Research Programme, entitled "Chronobiotic hormone melatonin: Design and development of new solid pharmaceutical formulations" Uni-Pharma Kleon Tsetis Pharmaceutical laboratories – Laboratory of Pharmaceutical Technology (ELKE: KE 21162, 2024- , Total budget: 21.158,40 €)