



UNIVERSITY OF
PATRAS
ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΑΤΡΩΝ

DEPARTMENT OF PHARMACY

SCHOOL OF HEALTH SCIENCES



2024-2025

Study
Guide

PATRAS 2025





Department of Pharmacy



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UNIVERSITY OF PATRAS
SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PHARMACY
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STUDY GUIDE
ACADEMIC YEAR 2024 - 2025

PATRAS 2025



**This edition of the Study Guide presents the Organization
of the Department of Pharmacy on April 10th, 2025 (Version 05)**

Any modifications and/or additions to this Study Guide of Studies, which will occur during the academic year 2024-2025, will be incorporated (after the approval of the Department's Assembly) in the previous one, while the Department's website will always contain the **Official Edition**

Each subsequent edition contains in detail any changes, the pages in which they have been made in relation to the previous one, as well as the number of the latest valid edition (which is also displayed in the footer of the single numbered pages).

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Edited by George N. Pairas, 2025

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THE UNIVERSITY OF PATRAS

The University of Patras was founded by the L.D. 4425 of November 11th, 1964 and has been in operation since 1966. The establishment of the University contributed vastly to the decentralization of Academic Education in Greece. In June 2013 the University of Western Greece was incorporated in the University of Patras and in 2019 the Technological Educational Institute of Western Greece was incorporated as well.

At present, the University is a six-city campus: Patras, Messolonghi, Agrinio, Aigio, Pyrgos & Amaliada, with the main facilities (University Campus of Patras) located in a single area of 4,500 acres, 12 km S.E. from the city of Patras.

It is the third University of Greece in terms of student, teaching, administrative and other personnel, number of Departments and awarded degrees.

THE DEPARTMENT OF PHARMACY

a. Short Overview

The [Department of Pharmacy](#) was originally founded in 1977 by Presidential Act 835/1977 ΦΕΚ Α' 271. It received its first students in 1978 as a constituent Department of the School of Physical-Mathematical Sciences, whereas since 1983, together with the Department of Medicine, they form the School of Health Sciences (Presidential Act 127/83).

The first officially founded Laboratory of the Department of Pharmacy was that of [Pharmaceutical Chemistry](#) (1979), followed by rapid addition of Faculty Members affiliated with the new Laboratories of [Pharmaceutical Technology](#) (1981), [Instrumental Pharmaceutical Analysis](#) (1987), [Pharmacognosy and Chemistry of Natural Products](#) (1988), [Molecular Pharmacology](#) (1989), [Radiation Therapy](#) (1989), [Pharmacokinetics](#) (1989) and [Physical Pharmacy](#) (1991). The foundation as well as the internal function of all of the above Laboratories was officially approved by Presidential Act (ΦΕΚ 38/22-02-95 τ(1)). The Laboratory of [Molecular Biology and Immunology](#) was founded in 2003, and in 2018 the [Laboratory of Pharmacogenomics and Individualized Therapy](#).

With the aforementioned Laboratories are affiliated **21** Faculty Members, **2** Laboratory Teaching Staff members and **4** Special Technical Laboratory Staff members. The Administration is supported by the Secretary of the Dept. and 3 Administrative Staff members.

According to the current Academic Year data (September 29th, 2023), the Department trains 1090 undergraduate students, 53 in various stages of Ph.D. completion and 210 post-graduates in the framework of the 2 supported Postgraduate Programs:

- a. "Drug Design and Discovery" &
- b. Cosmetology - Preparation & Evaluation of Cosmetic Products

In addition the Department participates in the Interdepartmental Postgraduate Program: "Informatics for Life Sciences" and in the Inter-institutional "Nanomedicine for Drug Delivery (NANOMED)", supported by 4 European Universities, namely: Paris Descartes University (coordinator, France), Patras University (Greece), Pavia University (Italy) and Angers University (France).



b. Administration

University Administration Bodies

The University Administration bodies are the Council, the Rector, assisted by the Deputy Rectors, and the Senate.

School Administration

The decision making bodies of each School are the Dean, the Deanery and the General Assembly.

Department Administration

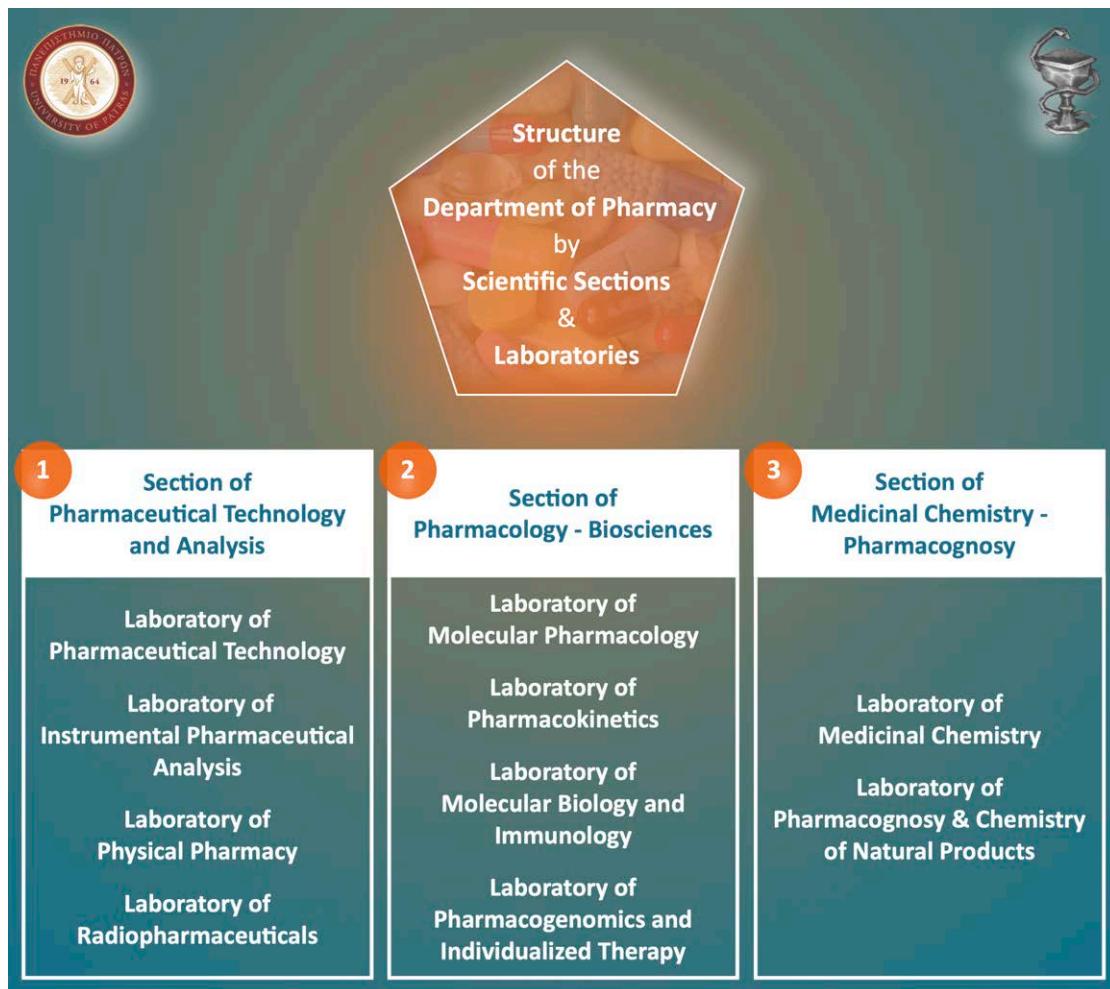
At the departmental level the administrative decisions are established by the **Chairman** and the **[General] Assembly**.

Chairman: Professor Sotiris S. Nikolaropoulos

Deputy Chairman: Professor Fotini Lamari

Members of the **General Assembly:** Academic Staff (All), One Representative of Laboratory Teaching Staff (elected), one Representative of Special Technical Laboratory Staff (elected), Two Representatives of Post Graduate Students (elected) and Two Representatives of Under Graduate Students (elected)

c. Scientific Sections & Laboratories





PERSONAL PAGES - RESEARCH INTERESTS - RECENT PUBLICATIONS [BY SECTIONS]

a. Academic Staff

SECTION OF PHARMACEUTICAL TECHNOLOGY AND ANALYSIS [S1]

Antimissiaris Sophia, Professor	9 ➔
Avgoustakis Konstantinos, Professor Section Director	10 ➔
Hatziantoniou Sophia, Assoc. Professor	12 ➔
Kontoyannis Christos, Professor	14 ➔
Orkoula Malvina, Assoc. Professor	21 ➔

SECTION OF PHARMACOLOGY - BIOSCIENCES [S2]

Lagoumintzis George, Assist. Professor	15 ➔
Mikelis Constantinos, Assoc. Professor	19 ➔
Papadimitriou Evangelia, Professor	23 ➔
Patrinos George, Professor	24 ➔
Poulas Konstantinos, Assoc. Professor	25 ➔
Sivolapenko Gregory, Professor	26 ➔
Topouzis Stavros, Professor Section Director	29 ➔
Vasileiou Konstantinos, Assist. Professor	30 ➔

SECTION OF MEDICINAL CHEMISTRY - PHARMACOGNOSY [S3]

Fousteris Manolis, Assoc. Professor	11 ➔
Lamari Fotini, Professor Deputy Chairman	16 ➔
Magafa Vassiliki, Assist. Professor	17 ➔
Nikolaropoulos Sotirios, Professor Chairman	20 ➔
Pairas George., Professor Section Director	22 ➔
Sotiropoulou Georgia, Professor	27 ➔
Spyroulias George, Professor	28 ➔

b. Laboratory Teaching Staff

Pyrioxou Anastasia	31 ➔
Zissi Georgia	32 ➔



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Research Interests

- ❖ Biopharmaceutics and Pharmacokinetics: Improving Drug Biodistribution and Pharmacokinetics through Advances Drug Delivery System Design
- ❖ Nanomedicines: Liposomal or Nanoparticulate systems for Controlled Drug (or Vaccine)Delivery and/or Targeting.
- ❖ Application of novel lipid vesicles (Arsonoliposomes) in Anticancer / Antiparasitic Therapeutics.
- ❖ Novel Controlled-(Release)-Drug-Releasing Stents.
- ❖ Delivery of Microbicides for prevention of Sexually transmitted HIV.
- ❖ Ocular Drug Delivery (intravitreal injection of novel drug delivery systems).
- ❖ Drug Delivery Systems for targeting alveolar macrophages after delivery by nebulization
- ❖ Liposomal Drugs -in- Polymeric Films for sustained drug release and drug protection.
- ❖ Application of Liposomes in Analytical Techniques

Indicative Publications

1. *Sophia Piperoudi Dimitris Fatouros, Panayiotis V. Ioannou Peter Frederik, S.G. Antimisiaris, Incorporation of PEG-lipids in arsonoliposomes can produce highly stable arsenic-containing vesicles of specific lipid composition. Chem. Phys. Lipids 139:2, 96-106, 2006.* [↑](#)
2. *G. Koromila, G. Michanetzis, Y.F. Missirlis, S.G. Antimisiaris, Heparin incorporating liposomes as a delivery system of heparin from PET-covered metallic stents: Effect on haemocompatibility, Biomaterials, 27:12, 2525-2533, 2006* [↑](#)
3. *P. Hatzi, S. Mourtas, P. Klepetsanis, S.G. Antimisiaris, Integrity of liposomes in presence of cyclodextrins. Effect of liposome type. and lipid composition, Int. J. Pharm, 333 (1-2), pp. 167-176, 2007.* [↑](#)
4. *M. Zaru, S. Mourtas, P. Klepetsanis, A.M. Fadda and S.G. Antimisiaris, Liposomes for drug delivery to the lungs after nebulization. Eur. J. Pharmaceutics Biopharmaceutics, In press , 2007.* [↑](#)

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Research Interests

- ❖ Targeted delivery of anticancer drugs based on i) biodegradable, polymeric, long-circulating ("stealth") nanoparticles and ii) magnetic hybrid organic-inorganic nanoparticles,
- ❖ Development of novel prophylactic or therapeutic vaccines based on biodegradable and biocompatible, polymeric nano- and micro-particles,
- ❖ Development of formulations for the efficient delivery of drugs with limited aqueous solubility

Indicative Publications

1. *George Mattheolabakis, George Lagoumintzis, Zoi Panagi, Evangelia Papadimitriou, Charalambos D. Partidos, Konstantinos Avgoustakis, "Immune stimulation after transcutaneous delivery with antigen-loaded PLA nanoparticles"* *Int. J. of Pharm.*, 385, 2010, 187-193. [↗](#)
2. *A.A. Vassiliou, S. A. Papadimitriou, D. N. Bikaris, G. Mattheolabakis and K. Avgoustakis, "Facile synthesis of polyester-PEG triblock copolymers and preparation of amphiphilic nanoparticles as drug carriers"* *J. Control. Rel.*, 148, 2010, 388-395. [↗](#)
3. *Aristides Bakandritsos, George Mattheolabakis, George Chatzikyriakos, Tamas Szabo, Vasilis Tzitzios, Dimitris Kouzoudis, Stelios Couris, Konstantinos Avgoustakis, "Doxorubicin Nanocarriers Based on Magnetic Colloids with a bio-Polyelectrolyte Corona and High non-linear Optical Response: Synthesis, Characterization and Properties"*, *Advanced Functional Materials*, 21, 2011, 1465-1475. [↗](#)
4. *Zacharoula Iatridi, George Mattheolabakis, Konstantinos Avgoustakis, and Constantinos Tsitsilianis, Self-assembly and drug delivery studies of pH/thermo-sensitive polyampholytic (A-co-B)-b-C-b-(A-co-B) segmented terpolymers*, *Soft Matter*, 2011, 7, 11160-11168. [↗](#)

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Research Interest

- ❖ Design and synthesis of small heterocyclic molecules as potential protein kinase inhibitors.
- ❖ Design, synthesis and evaluation of the biological activity of new steroidal alkylating agents.
- ❖ Design, synthesis and structure-activity relationship studies of novel steroidal derivatives with anticancer activity.

Indicative Publications

1. Dillon SR, Sprecher C, Hammond A, Bilsborough J, Rosenfeld-Franklin M, Presnell SR, Haugen HS, Maurer M, Harder B, Johnston J, Bort S, Mudri S, Kuijper JL, Bukowski T, Shea P, Dong DL, Dasovich M, Grant FJ, Lockwood L, Levin SD, LeCiel C, Waggie K, Day H, Topouzis S, Kramer J, Kuestner R, Chen Z, Foster D, Parrish-Novak J, Gross JA. (2004) Interleukin 31, a cytokine produced by T cells, induces dermatitis in mice. *Nature Immunol.*, 5: 752-760. [↗](#)
2. Hudkins KL, Gilbertson DG, Carling M, Taneda S, Hughes SD, Holdren MS, Palmer TE, Topouzis S, Haran AC, Feldhaus AL, Alpers CE (2004) Exogenous PDGF-D is a potent mesangial cell mitogen and causes a severe mesangial proliferative glomerulopathy. *J. Am. Soc. Nephrol.*, 15: 286-98. [↗](#)
3. Xu W, Presnell SR, Parrish-Novak J, Kindsvogel W, Jaspers S, Chen Z, Dillon SR, Gao Z, Gilbert T, Madden K, Schlutsmeyer S, Yao L, Whitmore TE, Chandrasekher Y, Grant FJ, Maurer M, Jelinek L, Storey H, Brender T, Hammond A, Topouzis S, Clegg CH, Foster DC. (2001) A soluble class II cytokine receptor, IL-22RA2, is a naturally occurring IL-22 antagonist. *Proc. Natl. Acad. Sci. USA*, 98: 9511-9516. [↗](#)
4. Topouzis S and Majesky MW. (1996) Smooth muscle lineage diversity in the chick embryo: Two types of aortic smooth muscle cell differ in growth and receptor-mediated transcriptional responses to transforming growth factor-*b*. *Dev. Biol.*, 178: 430-445. [↗](#)

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Research Interests

- ❖ Design and study of nanocarriers as transporters of biologically active molecules
- ❖ Incorporation of drug molecules in nanosystems (liposomes, nanoemulsions, solid state lipid nanoparticles (SLN), polymeric systems, dendrimers), to improve the pharmacokinetic properties, bioavailability and pharmacological response in target tissues (tumors, lung , skin).
- ❖ Formulation of novel carriers of bioactive molecules into final products and study their characteristics (size distribution, zeta-potential, particle surface morphology, content of actives and excipients, active bioavailability, stability).
- ❖ Study of the interaction of bioactive molecules with model lipid membranes mainly by Thermal Analysis in order to design new formulations, as well as to predict their interaction with biological membranes.
- ❖ Development of cosmetics and topical pharmaceutical product. Study of the physicochemical characteristics and stability. Safety assessment and evaluation of their efficacy using non-invasive biomechanical methods for claim substantiation.

Indicative Publications

1. Górska K, Kowalczyk T, Gladys A, Glica M, Muskała M, Picot L, Mori M, Hatziantoniou S, Sitarek P. *Industrial applications of Cannabis sativa (L.): Exploring its biological and nanotechnological potential.* Ind Crops Prod. 2025;225:120566. [☞](#)
2. Liakopoulou A, Letsiou S, Avgoustakis K, Patrinos GP, Lamari FN, Hatziantoniou S. *Curcumin-Loaded Lipid Nanocarriers: A Targeted Approach for Combating Oxidative Stress in Skin Applications.* Pharmaceutics. 2025;17(2):144. [☞](#)
3. Zissi L, Dimaki VD, Birba VS, Galani VC, Magafa V, Hatziantoniou S, Lamari FN. *Natural Deep Eutectic Solvents as Green Alternatives for Extracting Bioactive Compounds from Sideritis Taxa with Potential Cosmetic Applications.* Antioxidants. 2025;14(1):68. [☞](#)
4. Kechagia A, Dimaki VD, Mourelatou E, Avgoustakis K, Lamari FN, Hatziantoniou S. *Enhanced Stability and Prolonged Insect-Repellent Action of Essential Oil-Loaded Nanostructured Lipid Carriers.* Applied Sciences. 2024;14(23):11309. [☞](#)
5. Flekka K, Dimaki VD, Mourelatou E, Avgoustakis K, Lamari FN, Hatziantoniou S. *Stability and Retention of Nanoemulsion Formulations Incorporating Lavender Essential Oil.* Cosmetics. 2024;11:65. [☞](#)

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Research Interests

- ❖ Characterization of polymorphs in pharmaceutical formulations. Stability studies
- ❖ Novel Diagnostic Techniques for Bone Diseases
- ❖ Development of non-destructive methodologies using spectroscopic (Raman, IR, XRF) and electrochemical techniques (DPP, Impedance spectroscopy, CV). Application in pharmaceutical formulations, bioceramics, uroliths, bones, release kinetics of active substances from nano-polymeric tubes and liposomal carriers, etc.
- ❖ New biomaterials (synthesis, characterization, physicochemical properties)

Indicative Publications

1. *Eleni Kamilari, Konstantinos Farsalinos, Konstantinos Poulas, Christos G. Kontoyannis, Malvina G. Orkoula, "Detection and quantitative determination of heavy metals in electronic cigarette refill liquids using Total Reflection X-ray Fluorescence Spectrometry", Food and Chemical Toxicology, 116, Part B, (2018) 233–237.* [↑](#)
2. *Georgia Tooulakou, Andreas Giannopoulos, Dimosthenis Nikolopoulos, Panagiota Bresta, Elissavet Dotsika, Malvina G. Orkoula, Christos G. Kontoyannis, Costas Fasseas, Georgios Liakopoulos, Maria I. Klapa, and George Karabourniotis, "Reevaluation of the plant "gemstones": Calcium oxalate crystals sustain photosynthesis under drought conditions", Plant Signaling & Behavior, 11 (2016), NO. 9, e1215793.* [↑](#)
3. *Georgia Tooulakou, Andreas Giannopoulos, Dimosthenis Nikolopoulos, Panagiota Bresta, Elissavet Dotsika, Malvina G. Orkoula, Christos G. Kontoyannis, Costas Fasseas, Georgios Liakopoulos, Maria I. Klapa, and George Karabourniotis, "Alarm photosynthesis": calcium oxalate crystals as an internal CO₂ source in plants", Plant Physiology, 171 (2016) 2577-2585.* [↑](#)
4. *Harry Blair, Elena Kalyvioti, Nicholaos Papachristou, Irina Tourkova, Spyros Syggelos, Despina Deligianni, Malvina Orkoula, Christos Kontoyannis, Eleni Karavia, Kyriakos Kypreos, and Dionysios Papachristou «Apolipoprotein A-1 (ApoA-1) Regulates Osteoblast and Lipoblast Precursor Cells in Mice», Laboratory Investigation, 96 (2016) 763-772.* [↑](#)
5. *Malvina G. Orkoula and Christos G. Kontoyannis "Raman Spectroscopy for the Study of Biological Organisms (Biogenic Materials and Biological Tissues): A Valuable Analytical Tool", Spectroscopy Europe, 26 (2014) 18-21*

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Research Interests

- ❖ Signal transduction pathways - Innate immunity – Host Defense and Infections
- ❖ Cloning, expression, and biochemical characterization of protein molecules
- ❖ Host Pattern Recognition Receptors (PRRs) interactions with pathogens
- ❖ Study of the gut microbiome in human pathophysiology (immunocompromised patients) and the pharmacologic action of cholesterol-lowering drugs
- ❖ Oxidative stress - Metabolic diseases - Pleiotropic effects of statins
- ❖ Study of the pathophysiological mechanisms in autoimmune neuromuscular diseases
- ❖ Electronic nicotine delivery devices (ENDS) in human health

Indicative Publications

1. *Editorial: Microbiota and Mitochondria: Impact on Cell Signaling, Physiology and Disease.* D. V. Chartoumpakis, A. Zaravinos, Y. Apidianakis, G. Lagoumintzis. *Front. Microbiol.* 2022 18;13:1056499. [↑](#)
2. *A Myasthenia Gravis Genome-Wide Association Studies Meta-Analysis identifies Agrin as a Novel Risk Locus.* A. Topaloudi, Z. Zagoriti, A.C. Flint, M.B. Martinez, Z. Yang, F. Tsetsos, Y.P. Christou, G. Lagoumintzis, et al. *J Med Genet.* 2022;59(8):801-809. [↑](#)
3. *Evidence for association of STAT4 and IL12RB2 variants with MG susceptibility: what is the effect on gene expression in thymus?* Z. Zagoriti, G. Lagoumintzis, G. Perroni, G. Papathanasiou, A. Papadakis, V. Ambrogi, J.S. Tzartos, K. Poulas. *Journal of Neuroimmunology*, 319:93-99, 2018. [↑](#)
4. *Utilizing the virus-induced blocking of apoptosis in an easy baculovirus titration method.* A. Niarchos, G. Lagoumintzis, K. Poulas. *Scientific Reports*, 22(5):15487, 2015. [↑](#)
5. *Genetic databases and their potential in pharmacogenomics.* G. Lagoumintzis, K. Poulas, G. Patrinos. *Current Pharmaceutical Design*, 2010, 16(20): 2224-31. [↑](#)
6. *Pseudomonas aeruginosa Slime glycolipoprotein is a potent stimulant of TNF-α gene transcription and activation of transcription activators nuclear factor κB and activator protein 1 in human monocytes.* G. Lagoumintzis, M. Christofidou, G. Dimitracopoulos, F. Paliogianni. *Infection & Immunity* 2003, 71; (8): 4614-4622. [↑](#)

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Research Interests

- ❖ Phytochemical analysis of extracts and essential oils of medicinal and aromatic plants with modern chromatographic techniques
- ❖ Isolation and structural characterization of natural products: Structure-function studies
- ❖ Development of analytical methods for quality control of herbal drugs and determination of natural products in biologic samples
- ❖ Ethnopharmacological studies

Indicative Publications

1. "Inhibitory activity on amyloid- β aggregation and antioxidant properties of *Crocus sativus* stigmas extract and its crocin constituents" Papandreou M.A., Kanakis C.D., Polissiou M.G., Efthimiopoulos S., Cordopatis P., Margarity M., Lamari F.N. *J. Agric. Food Chem.* (2006) 54: 8762 [↗](#)
2. "Saffron as a source of novel acetylcholinesterase inhibitors: molecular docking and in vitro enzymatic studies" Geromichalos GD, Lamari FN, Papandreou MA, Trafalis DT, Margarity M, Papageorgiou A, Sinakos Z. *Journal of Agricultural and Food Chemistry* (2012) 60(24):6131-8
3. "Berry leaves: An alternative source of bioactive natural products of nutritional and medicinal value" Ferlemi, A.-V., Lamari F.N. *Antioxidants* (2016) 5(2): Article number 17
4. "Effect of acidic and enzymatic pretreatment on the analysis of mountain tea (*Sideritis spp.*) volatiles via distillation and ultrasound-assisted extraction" Dimaki VD, Iatrou G, Lamari FN *J. Chromatogr A* (2017) 1524: 290-297

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Research Interests

- ❖ Chemistry of amino acids and peptides
- ❖ Synthesis in liquid and solid phase analogues of biologically important peptides [Hormones (Substance P, Angiotensin II, Oxytocin, Vasopressin, Luteinizing hormone-releasing hormone, Somatostatin, Neurotensin, Corticotropin-Releasing Factor), Antimicrobial peptides (Chrysophsin), Conopeptides (χ -MrIA)]
- ❖ Study of structure-activity relationships of biologically important peptides
- ❖ Synthesis and study of Cysteine - Containing Oligopeptides and their Complexes with heavy metals

Indicative Publications

1. Petrou, C., Magafa, V., Nock, B., Maina, T. and Cordopatis, P., "Synthesis and sst₂ binding profiles of new Tyr₃-octreotide analogues", *Journal of Peptide Science*, "in press" (2007) [▲](#)
2. Fragiadaki, M., Magafa, V., Slaninova, J. and Cordopatis, P., "Analogues of Oxytocin Containing Conformationally Restricted Residues in Position 7", *European Journal of Medicinal Chemistry*, 42, 799 (2007)
3. Zompra, A., Magafa, V., Lamari, F., Nikolopoulou, A., Nock, B., Maina, T., Spyroulias, G., Karamanos, N. and Cordopatis, P., "GnRH analogues containing conformationally restricted amino acids in positions 3 and 6: differential impact on pituitary binding affinity and direct antiproliferative effect on breast cancer cells", *Journal of Peptide Research*, 66, 57 (2005) [▲](#)
4. Spyroulias, A. G., Nikolakopoulou, P., Tzakos, A., Gerohanassis, I., Magafa, V., Manessi-Zoupa, E. and Cordopatis, P., "Comparison of the Solution Structures of Angiotensin I II: Implication for Structure - Function Relationship", *European Journal of Biochemistry*, 270, 2163 (2003) [▲](#)

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Research Interest

- ❖ Role of small GTPases on blood and lymphatic vascular physiology
- ❖ Endothelial cell signaling circuits and their impact on metastatic potential
- ❖ Tumor-endothelial cell interaction: mechanisms and biological outcome

Indicative Publications

1. *Mikelis CM, Palmbi TR, Simaan M, Li W, Szabo R, Lyons R, Martin D, Yagi H, Fukuhara S, Chikumi H, Galisteo R, Mukouyama Y, Bugge TH and Gutkind JS. PDZ-RhoGEF and LARG are essential for embryo development, and provide a link between thrombin and LPA receptors and Rho activation.* *J. Biol. Chem.* 2013;288(17):122232-43.
2. *Mikelis CM, Simaan M, Ando K, Fukuhara S, Sakurai A, Amornphimoltham P, Masedunskas A, Weigert R, Chavakis T, Adams RH, Offermanns S, Mochizuki N, Zheng Y and Gutkind JS. RhoA and ROCK mediate histamine-induced vascular leakage and anaphylactic shock.* *Nat. Commun.* 2015;10(6):6725.
3. *Drummond RA, Zahra FT, Natarajan M, Swamydas M, Hsu AP, Wheat LJ, Gavino C, Vinh DC, Holland SH, Mikelis CM*, Lionakis MS. GM-CSF Therapy in Human CARD9 Deficiency.* *J Allergy Clin Immunol* 2018 Jun 8. pii: S0091-6749(18)30846-7.
*Co-corresponding author
4. *Zahra FT, Sajib MS, Ichiyama Y, Akwii RG, Tullar PE, Cobos C, Minchew SA, Doçi CL, Zheng Y, Kubota Y, Gutkind JS, Mikelis CM. Endothelial RhoA GTPase is essential for in vitro endothelial functions but dispensable for physiological in vivo angiogenesis.* *Sci Rep.* 2019 Aug 12;9(1):11666.

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Research Interest

- ❖ Design, synthesis and study of biological activity of antineoplastic drugs
- ❖ Design and synthesis of heterocyclic steroids and analogues of them
- ❖ QSAR
- ❖ Drug design

Indicative Publications

1. "Mourelatos, C.; Kareli, D.; Dafa, E.; Argyraki, M.; Koutsourea, A.; Papakonstantinou, I.; Fousteris, M.; Pairas, G.; Nikolaropoulos, S.; Lialiatis, T. S., *Cytogenetic and antineoplastic effects by newly synthesised steroid alkylators in lymphocytic leukaemia P388 cells in vivo*. *Mutation Research-Genetic Toxicology & Environmental Mutagenesis* 2012, 746, 1-6 [Open](#)
2. Mourelatos, C.; Nikolaropoulos, S.; Fousteris, M.; Pairas, G.; Argyraki, M.; Lykidis, D.; Fidani, S.; Mourelatos, D.; Lialiatis, Th., *Potentiation by caffeine of cytogenetic damage induced by steroid derivatives in human lymphocytes in vitro*. *Mutation Research-Genetic Toxicology & Environmental Mutagenesis* 2014, 766, 42-45 [Open](#)
3. Psarra, V.; Fousteris, M. A *; Hennig, L.; Bantzi, M.; Giannis, A.; Nikolaropoulos, S. S. *Identification of azepinone fused tetracyclic heterocycles as new chemotypes with protein kinase inhibitory activities*. *Tetrahedron* 2016, 72, 2376-2385 [Open](#)
4. Letis, A. S.; Seo E. J.; Nikolaropoulos, S. S.; Efferth, T; Giannis, A*; Fousteris M. A*. *Synthesis and cytotoxic activity of new artemisinin hybrid molecules against human leukemia cells*. *Bioorganic Medicinal Chemistry* 2017, 25, 3357-3367 [Open](#)
5. Lampropoulou, E.; Logoviti, I.; Koutsioumpa, M.; Hatziapostolou, M.; Polytarchou, C.; Skandalis, S. S.; Hellman, U.; Fousteris, M.; Nikolaropoulos, S. S.; Choleva, E.; Lamprou, M.; Skoura, A.; Megalooikonomou, V.; Papadimitriou, E. *Cyclin-dependent kinase 5 mediates pleiotrophin-induced endothelial cell migration*. *Scientific Reports* 2018, 8, 5893 [Open](#)
6. Roumana, A.; Yektaoğlu, A.; Pliatsika, D.; Bantzi, M.; Nikolaropoulos, S. S.; Giannis, A.*; Fousteris, M. A.* *New Spiro-Lactam C-nor-D-homo Steroids*. *European Journal of Organic Chemistry* 2018, 30, 4147-4160 [Open](#)

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Research Interest

- ❖ Development of non-destructive methodologies for qualitative and quantitative determination of pharmaceutically active substances in solid and liquid formulations.
- ❖ Characterization of polymorphic phases (generic drugs).
- ❖ Development of novel methodologies for qualitative and quantitative determination of substances with pharmaceutical activity in biological fluids.
- ❖ Development of novel methodologies for the study of bone and cartilage diseases (osteoporosis, osteoarthritis).

Indicative Publications

1. *Malvina Orkoula, Michael Friedman, David Kohn, Michael Morris, «Effect of Exercise and Nutrition on Composition of Murine Tibia», Bone, 48 (2011) S179 Suppl. 2.*
2. *Malvina G. Orkoula, Martha Z. Vardaki and Christos G. Kontoyannis, «Study of Bone Matrix Changes Induced by Osteoporosis in Rat Tibia Using Raman Spectroscopy», Vibrational Spectroscopy 63 (2012) 404-408.*
3. *Malvina G. Orkoula and Christos G. Kontoyannis, «Raman Spectroscopy for the Study of Biological Organisms (Biogenic Materials and Biological Tissues): A Valuable Analytical Tool», Spectroscopy Europe, 26 (2014) 18-21. (Invited review article).*
4. *Harry Blair, Elena Kalyvioti, Nicholaos Papachristou, Irina Tourkova, Spyros Syggelos, Despina Deligianni, Malvina Orkoula, Christos Kontoyannis, Eleni Karavia, Kyriakos Kypreos, and Dionysios Papachristou «Apolipoprotein A-1 (ApoA-1) Regulates Osteoblast and Lipoblast Precursor Cells in Mice», Laboratory Investigation, 96 (2016), 763-772.*

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University of Patras – Dept. of Pharmacy – Acad. Year 2024-2025 – Version: 04

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Research Interests

- ❖ Natural & Modified Steroids - Design and Synthesis of Ester and Amide derivatives
 - Evaluation of Possible Anti-tumor Activity
- ❖ Heterocyclic Compounds - Bioactive Building Blocks in Heterocyclic Synthesis
- ❖ Drugs against Infections
- ❖ Peptides & Polypeptides - Synthesis - Conformational Studies

Indicative Publications

1. "Steroidal esters of the aromatic nitrogen mustard 2-[4-N,N-bis(2-chloroethyl)amino-phenyl]butanoic acid (2-PHE-BU): Synthesis and in-vivo biological evaluation". I. C. Papaconstantinou, M. A. Fousteris, A. I. Koutsourea, G. N. Pairas, A. D. Papageorgiou and S. S. Nikolopoulos. *Anti-Cancer Drugs*, 24(1) (2013), 52
2. "Zn^{II} Pyridyloxime Complexes as Potential Reactivators of OP-Inhibited Acetylcholinesterase: In vitro and Docking Simulation Studies". K. F. Konidaris, G. A. Dalkas, E. Katsoulakou, G. Pairas, C. P. Raptopoulou, F. N. Lamari, G. A. Spyroulias and E. Manessi-Zoupa. *Journal of Inorganic Biochemistry*, 134 (2014) 12
3. "H-Bond: The Chemistry & Biology H bridge" G. N. Pairas and P. G. Tsoungas, *Chemistry Select*, 2016, 1(15), 4520
4. "The Isoxazole Ring and its N-oxide: A Privileged Structure in Neuropsychiatric Therapeutics" G. Pairas, F. Perperopoulou, P. G. Tsoungas and G. Varvounis, *ChemMedChem*, 2017, 12(6), 408

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Research Interests

- ❖ Angiogenesis and tumor growth in vivo and in vitro. Pharmacological studies on the mechanisms involved, and evaluation of new compounds or nanoparticles for their anti-angiogenic and anti-tumor activity.
- ❖ The biological actions of the heparin-binding growth factor pleiotrophin. Effects on endothelial cell functions, angiogenesis, tumor growth and metastasis, bone cell biology. Signaling and receptors identification. Structure-function studies and development of therapeutic applications.
- ❖ The role of receptor RPTPbeta/zeta in the cardiovascular and the skeletal system. Structure-function studies.

Indicative Publications

1. *Papadimitriou E, Pantazaka E, Castana P, Tsalias T, Polyzos A, Beis D. Pleiotrophin and its receptor protein tyrosine phosphatase beta/zeta as regulators of angiogenesis and cancer. BBA Reviews on Cancer 1866:252-265, 2016* [↑](#)
2. *Lampropoulou E, Logoviti I, Koutsioumpa M, Hatziapostolou M, Polytarchou C, Skandalis SS, Hellman U, Fousteris M, Nikolaropoulos S, Choleva E, Skoura A, Megalooikonomou V, Papadimitriou E. Cyclin-dependent kinase 5 mediates pleiotrophin-induced endothelial cell migration. Sci Rep 8:5893, 2018* [↑](#)
3. *Kastana P, Choleva E, Poimenidi E, Karamanos N, Sugahara K, Papadimitriou E. Insight into the role of chondroitin sulfate E in angiogenesis. FEBS J 2019* [↑](#)
4. *Kastana P, Zahra FT, Ntenekou D, Katraki-Pavlou S, Beis D, Lionakis MS, Mikelis CM, Papadimitriou E. Matrigel Plug Assay for In Vivo Evaluation of Angiogenesis. Methods Mol Biol 1952:219-232, 2019* [↑](#)
5. *Cuthbert RJ, Sanjurjo-Rodríguez C, Churchman SE, Lotfy A, Kastana P, Tan HB, McGonagle D, Papadimitriou E, Jones E, Giannoudis PV. Regulation of angiogenesis discriminates tissue resident MSCs from effective and defective osteogenic environments. J Clin Med 9(6): E1628, 2020.* [↑](#)
6. *Lamprou M, Kastana P, Kofina F, Tzoupis H, Barboutsi S, Sajib MdS, Koutsioumpa M, Poimenidi E, Zompra A, Tassopoulos D, Choleva E, Tselios T, Mikelis CM, Papadimitriou E. Pleiotrophin selectively binds to vascular endothelial growth factor receptor 2 and inhibits or stimulates cell migration depending on $\alpha\beta 3$ integrin expression. Angiogenesis 23: 621-636, 2020* [↑](#)

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Department of Biology
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Research Interests

- ❖ Genome discovery in pharmacogenomics
- ❖ Clinical implementation of pharmacogenomics
- ❖ Genomics of rare diseases and rare drug outcomes
- ❖ Human Genome informatics and human genome databases
- ❖ Translational tools in pharmacogenomics and personalised medicine
- ❖ Public Health Pharmacogenomics
- ❖ Economic evaluation in genomic and personalised medicine

Indicative Publications

1. *Fragoulakis V, Roncato R, Fratte CD, Eccia F, Bartsakoula M, Innocenti F, Toffoli G, Cecchin E, Patrinos GP, Mitropoulou C. Estimating the Effectiveness of DPYD Genotyping in Italian Individuals Suffering from Cancer Based on the Cost of Chemotherapy-Induced Toxicity. Am J Hum Genet. 2019;104(6):1158-1168.* [↗](#)
2. *Mitropoulos K, Merkouri Papadima E, Xiromerisiou G, Balasopoulou A, Charalampidou K, Galani V, Zafeiri KV, Dardiotis E, Ralli S, Deretzi G, John A, Kydonopoulou K, Papadopoulou E, di Pardo A, Akcimen F, Loizedda A, Dobričić V, Novaković I, Kostić VS, Mizzi C, Peters BA, Basak N, Orrù S, Kiskinis E, Cooper DN, Gerou S, Drmanac R, Bartsakoula M, Tsermpini EE, Hadjigeorgiou GM, Ali BR, Katsila T, Patrinos GP. Genomic variants in the FTO gene are associated with sporadic amyotrophic lateral sclerosis in Greek patients. Hum Genomics. 2017; 11(1):30.* [↗](#)
3. *Chondrou V, Kolovos P, Sgourou A, Kourakli A, Pavlidaki A, Kastrinou V, John A, Symeonidis A, Ali BR, Papachatzopoulou A, Katsila T, Patrinos GP. Whole transcriptome analysis of human erythropoietic cells during ontogenesis suggests a role of VEGFA gene as modulator of fetal hemoglobin and pharmacogenomic biomarker of treatment response to hydroxyurea in β-type hemoglobinopathy patients. Hum Genomics. 2017;11(1):24.* [↗](#)
4. *Viennas E, Komianou A, Mizzi C, Stojiljkovic M, Mitropoulou C, Muilu J, Vihtinen M, Grypioti P, Papadaki S, Pavlidis C, Zukic B, Katsila T, van der Spek PJ, Pavlovic S, Tzimas G, Patrinos GP. Expanded national database collection and data coverage in the FINDbase worldwide database for clinically relevant genomic variation allele frequencies. Nucleic Acids Res. 2017;45(D1):D846-D853.*

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Research Interests

- ❖ Biochemistry and Toxicology focusing at Electronic Nicotine Delivery (END) systems and e-liquids
- ❖ Recombinant proteins
- ❖ Crystallization and crystallography of proteins
- ❖ Electroceuticals/Bioelectronic medicine
- ❖ Innovative and Functional foods

Indicative Publications

1. Kouretas D, Tsatakis A, Poulas K. Editorial: Alternative tobacco products: Toxicology and health issues. *Food and Chemical Toxicology*. 2018 May 26. pii: S0278-6915(18)30356-9 [↑](#)
2. El Mubarak M, Danika C, Vlachos N, Farsalinos K, Poulas K, Sivolapenko G. Development and validation of analytical methodology for the quantification of aldehydes in e-cigarette aerosols using UHPLC-UV. *2018 Food and Chemical Toxicology*. 116(Pt B):147-151 [↑](#)
3. Niarchos A, Lagoumintzis G, Poulas K. TA-GC cloning: a new simple and versatile technique for the directional cloning of PCR products for recombinant protein expression. *2017, PLoS One*. 12(11), e0186568 [↑](#)
4. Farsalinos KE, Yannovits N, Sarri T, Voudris V, Poulas K. Protocol proposal for, and evaluation of, consistency in nicotine delivery from the liquid to the aerosol of electronic cigarettes atomizers: regulatory implications. *2016 Addiction*. 111(6):1069-76 [↑](#)
5. Niarchos A, Lagoumintzis G, Poulas K. Utilizing the virus-induced blocking of apoptosis in an easy baculovirus titration method. *2015 Sci Rep*. 5:15487 [↑](#)

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University of Patras - Dept. of Pharmacy - Acad. Year 2024-2025 - Version: 04 23



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Department of Medicine
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Research Interests

- ❖ Preclinical and clinical studies of bioavailability and pharmacokinetics of new chemical entities.
- ❖ Pharmacokinetic and pharmacodynamics interactions. Toxicokinetics.
- ❖ Pharmacokinetic and Pharmacogenomic interactions.
- ❖ Drug clinical development, design & conduct of Phase I-IV clinical trials.

Indicative Publications

1. J.S. Stewart, G.B. Sivolapenko, V.Hird, K.A. Davies, M. Wallport, M.A. Ritter and A.A. Epenetos (1990). Clearance of iodine-131 labelled murine monoclonal antibody from patients' blood by intravenous human anti-murine immunoglobulin antibody. *Cancer Res.*, 50: 563-567 [↗](#)
2. K.A.A. Davies, V. Hird, S. Stewart, G. Sivolapenko, P. Jose, A.A. Epenetos and M.J. Walport (1990). A study of *in vivo* immune complex formation and clearance in man. *J. Immunol.*, 144: 4613-4620 [↗](#)
3. C. Schatten, N. Pateisky, N. Vavra, P. Ehrenbock, P. Angelberger, G. Sivolapenko and A.A. Epenetos (1991). Lymphoscintigraphy with ¹²³I-labelled epidermal growth factor. *Lancet*, 337: 295-396. [↗](#)
4. G.B. Sivolapenko, V. Douli, D. Pectasides, D. Skarlos, G. Sirmalis, R. Hussein, J. Cook, N.S. Courtenay-Luck, E. Merkouri, K. Konstantinides and A.A. Epenetos (1995). Breast cancer imaging with radiolabelled peptide from complementarity-determining region of antitumour antibody. *Lancet*, 346: 1662-1666. [↗](#)

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Research Interests

- ❖ Molecular mechanisms underlying cancer development, invasion/metastasis: tumor suppressors; identification of cancer-associated genes/proteins for the development of targeted pharmaceutical compounds & molecular diagnostics.
- ❖ Proteases and protease inhibitors. Kallikrein-related proteases (KLKs).
- ❖ Protease inhibitors (proteins/peptides, LMW/synthetic, aptamers)
- ❖ Cancer epigenetics: Pharmacological modulation/unmasking of epigenetically silenced tumor suppressors; epigenetic markers.
- ❖ Tumor micrometastasis: Minimal residual cancer. Tumor biomarkers.
- ❖ Animal models for human diseases.
- ❖ Production and engineering of recombinant proteins

Indicative Publications

1. Furio L, Pampalakis G, Michael IP, Nagy A, Sotiropoulou G*, Hovnanian A.* (2015) *Elimination of KLK5 reverses the hallmarks of Netherton syndrome*. *PLoS Genetics* 2015 Sep 21; 11(9):e1005389.
2. Hovnanian A, Sotiropoulou G, Pampalakis G, Furio L. (2014) "Methods and pharmaceutical compositions for the treatment of Netherton syndrome". Application Nr: EP14153629.2 (03 Feb 2014), Priority date: 2014-02-03; Filing date: 2015-02-02; Publication date: 2015-08-06, WO2015114144A1.
3. Ximerakis M, Pampalakis G, Roumeliotis TI, Sykioti V-S, Garbis SD, Stefanis L, Sotiropoulou G, Vekrellis K. (2014) *Resistance of naturally secreted alpha-synuclein to proteolysis*. *FASEB J* 28: 3146-3158.
4. Pampalakis G, Obasuyi O, Papadodima O, Chatzioannou A, Zoumpourlis V, Sotiropoulou G. (2014) *The KLK5 protease suppresses breast cancer by repressing the mevalonate pathway*. *Oncotarget* 5: 2390-2403.
5. Sotiropoulou G, Pampalakis G. (2012) *Targeting the kallikrein-related peptidases for drug development*. *Trends Pharmacol Sci* 33: 623-634.
6. Pampalakis G, Prosnikli E, Agalioti T, Vlahou A, Zoumpourlis V, Sotiropoulou G. (2009) *A tumor protective role for human kallikrein-related peptidase 6 in breast cancer mediated by inhibition of epithelial-to-mesenchymal transition*. *Cancer Res* 69: 3779-3787.

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Research Interests

- ❖ Design/Simulation of bioactive molecules of pharmaceutical interest and Conformational Analysis of biomolecules through Nuclear Magnetic Resonance Spectroscopy (NMR).
- ❖ Structural Bioinformatics applied in homology modeling of unknown structures of biomolecules, protein-protein/peptide/substrate interaction through molecular dynamics simulation, docking simulation protocols.
- ❖ In silico design and development of combinatorial libraries of compounds and virtual screening process towards the quest of lead-molecules with biological activity towards protein/enzyme targets, etc.

Indicative Publications

1. D. Vourtsis, C.T. Chasapis, D. Bentrop, G.A. Spyroulias. *NMR Conformational properties of an Anthrax Lethal Factor domain studied by multiple amino acid-selective labeling.* BBRC 450, 335-40 (2014) [▲](#)
2. C M. von Wantoch Rekowski, V. Kumar, Z. Zhou,; M. Bantzi, A. Marazioti, J. Moschner, G.A. Spyroulias, F. van den Akker, A. Giannis, A. Papapetropoulos. *Insights into soluble guanylyl cyclase activation derived from improved heme-mimetics* J. Med. Chem. 56, 8948-8952 (2013). [▲](#)
3. T. Chasapis, N.G. Kandias, V. Episkopou, D. Bentrop, G.A. Spyroulias, *NMR Based Insights into the conformational and interaction properties of Arkadia RING-H2 E3 Ub Ligase.* Proteins 80, 1484-1489 (2012) [▲](#)
4. C.T. Chasapis, A.I. Argyriou, P.-J. Corringer, D. Bentrop D, G.A. Spyroulias. *Unravelling the Conformational Plasticity of the Extracellular Domain of a Prokaryotic nAChR Homologue in Solution by NMR.* Biochemistry, (2011) [▲](#)
5. G.A. Dalkas, C.T. Chasapis, P.V. Gkazonis, D. Bentrop, G.A. Spyroulias. *Conformational dynamics of the anthrax lethal factor catalytic center.* Biochemistry, 49, 10767-9 (2010). [▲](#)

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Research Interests

Pharmacology of Vascular, Inflammatory and Fibroproliferative diseases

- ❖ Past and present investigations address the molecular pathways operating in endothelial and smooth muscle cells and which are amenable to targeting by novel or optimized therapeutics.
- ❖ These pathways control blood pressure and vascular resistance, inflammatory and thrombotic processes, solid tumor/wound angiogenesis, and are critically involved in the onset and progress of chronic cardiovascular and metabolic diseases (e.g. atherosclerosis, arterial calcification, restenosis).
- ❖ At the cellular and molecular levels, past research has addressed a) critical aspects of phenotypic determination and functional control of vascular smooth muscle and endothelial cells, triggered by morphogenetic cues (e.g. TGF-β and PDGF) and transcriptional regulators (e.g. SRF, Myocardins, COUP-TF II), and b) modulation of the interaction of the blood vessel wall with circulating cells such as monocytes/macrophages, platelets and T-cells (e.g. IL-22RA2, TFPI-2, CNP, IL-31).

Indicative Publications

1. Dillon SR, Sprecher C, Hammond A, Bilsborough J, Rosenfeld-Franklin M, Presnell SR, Haugen HS, Maurer M, Harder B, Johnston J, Bort S, Mudri S, Kuijper JL, Bukowski T, Shea P, Dong DL, Dasovich M, Grant FJ, Lockwood L, Levin SD, LeCiel C, Waggie K, Day H, Topouzis S, Kramer J, Kuestner R, Chen Z, Foster D, Parrish-Novak J, Gross JA. (2004) Interleukin 31, a cytokine produced by T cells, induces dermatitis in mice. *Nature Immunol.*, 5: 752-760. [↗](#)
2. Hudkins KL, Gilbertson DG, Carling M, Taneda S, Hughes SD, Holdren MS, Palmer TE, Topouzis S, Haran AC, Feldhaus AL, Alpers CE (2004) Exogenous PDGF-D is a potent mesangial cell mitogen and causes a severe mesangial proliferative glomerulopathy. *J. Am. Soc. Nephrol.*, 15: 286-98. [↗](#)
3. Xu W, Presnell SR, Parrish-Novak J, Kindsvogel W, Jaspers S, Chen Z, Dillon SR, Gao Z, Gilbert T, Madden K, Schlutsmeyer S, Yao L, Whitmore TE, Chandrasekher Y, Grant FJ, Maurer M, Jelinek L, Storey H, Brender T, Hammond A, Topouzis S, Clegg CH, Foster DC. (2001) A soluble class II cytokine receptor, IL-22RA2, is a naturally occurring IL-22 antagonist. *Proc. Natl. Acad. Sci. USA*, 98: 9511-9116. [↗](#)
4. Topouzis S and Majesky MW. (1996) Smooth muscle lineage diversity in the chick embryo: Two types of aortic smooth muscle cell differ in growth and receptor-mediated transcriptional responses to transforming growth factor-*b*. *Dev. Biol.*, 178: 430-445. [↗](#)

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Faculty of Agricultural Engineering,
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Research Interests

Pharmacology of Vascular, Inflammatory and Fibroproliferative diseases

- ❖ Pharmaceutical Marketing
- ❖ Healthcare Marketing
- ❖ Pharmacoconomics
- ❖ Healthcare Economics

Indicative Publications

1. Mitropoulos P, Vasileiou K, and Mitropoulos I, *Understanding quality and satisfaction in public hospital services: A nationwide inpatient survey in Greece. Journal of Retailing and Consumer Services*, Vol. 40, 2018, pp. 270-275.
2. Karagianni M.-E., and Vasileiou K, *Investigation of the forecasting methods use in the drug supply chain: The pharmacy perspective in Greece. International Journal Management of Innovative Business & Education Systems*, Vol. 10, No 1, 2016, pp. 34-48.
3. Skaltsas, L. and Vasileiou K, *Patients' perceptions for generic drugs in Greece. Health Policy*, Vol 119, 2015, pp. 1406-1414.
4. Ntalla A. and Vasileiou K, *Pharmacists' perceptions on the health services provided by the community pharmacies. Proceedings of 3rd International Conference of Development and Economy (I.CO.D.ECON.), Kalamata, 03-06 May 2018*, pp.112-123.
5. Konstantopoulos H. and Vasileiou K, *Merchandising impact on consumer impulsive buying behaviour for parapharmaceutical products. Proceedings of 6th International Conference on Contemporary Marketing Issues (6th ICCMI 2018), 27-29 June 2018*, pp.185 - 192.

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Ph.D.

Department of Biochemistry
Royal Holloway University of London,
1999

URL [↗](#)

Research Interests

- ❖ Study of novel angiogenic factors and newly designed inhibitors of angiogenic processes
- ❖ Mechanisms of angiogenic processes triggered by growth factors
- ❖ The angiogenic actions of hydrogen sulfide (H_2S)-underlying molecular mechanisms in the vasculature

Indicative Publications

1. Palmer G., Tiran Z., Zhou Z., Capozzi M., Park W., Coletta C., Pyriochou A., Kliger Y., Levy O., Borukhov I., Dewhirst M., Rotman G., Penn J., Papapetropoulos A. A novel angiopoietin-derived peptide displays anti-angiogenic activity and inhibits tumour-induced and retinal neovascularization. *Br J Pharmacol*, 165 (2012) 1891-903. [↗](#)
2. Bucci M., Papapetropoulos A., Vellecco V., Zhou Z., Pyriochou A., Roussos C., Roviezzo F., Brancaleone V., Cirino G. Hydrogen sulfide is an endogenous inhibitor of phosphodiesterase activity. *Arterioscler Thromb Vasc Biol*, 30 (2010) 1998-2004. [↗](#)
3. Papapetropoulos A., Pyriochou A., Altaany Z., Yang G., Marazioti A., Zhou Z., Jeschke M.G., Branski L.K., Herndon D.N., Wang R., Szabó C. Hydrogen sulfide is an endogenous stimulator of angiogenesis. *Proc Natl Acad Sci U S A*, 106 (2009) 21972-7. [↗](#)
4. Zhou, Z., Sayed, N., Pyriochou, A., Roussos, C., Fulton, D., Beuve, A., Papapetropoulos, A. Protein kinase G phosphorylates soluble guanylyl cyclase on serine 64 and inhibits its activity. *Arterioscler Thromb Vasc Biol*, 28: (2008). 1803-10. [↗](#)
- 5.

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Georgia Zissi
Laboratory Teaching Staff Member

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Ph.D.

*Department of Chemical Engineering
University of Patras, 2000*

URL [↗](#)

Research Interests

- ❖ Use of spectroscopic methods for the determination of the structural and dynamic properties of inorganic compounds and pharmaceutical substances.
- ❖ Chemistry of rare earth compounds.
- ❖ Synthesis and physicochemical investigation of ionic compounds in the solid, liquid and glassy state.

Indicative Publications

1. Zissi, G. D.; Chrissanthopoulos, A.; Papatheodorou, G. N., 'Vibrational modes and structure of the LaCl_3 - CsCl melts', *Vibrational Spectroscopy* (2006), 40(1), 110-117. [↗](#)
2. Zissi, G. D.; Papatheodorou, George N., 'Composition and temperature induced changes on the structure of molten ScCl_3 - CsCl mixtures', *Physical Chemistry Chemical Physics* (2004), 6(18), 4480-4489. [↗](#)
3. G. D. Zissi and G. N. Papatheodorou, 'Seven-coordinated scandium (III) chloroions in ScCl_3 - CsCl molten mixtures at 600-900 °C', *J. Chem. Soc. Dalton Trans.* 13, 51 (2002). [↗](#)
4. G. D. Zissi and C. Bessada, ' ^{27}Al NMR spectra of the RECl_3 - AlCl_3 ($\text{RE} = \text{Y}, \text{La}$) Glasses and Melts', *Zeitschrift für Naturforschung A* 56, 697 (2001). [↗](#)

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UNDERGRADUATE STUDIES

a. Outline

The education system in Greece is based on semesters. There are two semesters per academic year. The first (Fall) semester begins in October 1st and ends in January 31st. Classes for the second (Spring) semester resume the 16th February and last until 10th of June. Students admitted for undergraduates studies need 10 semesters (5 years) in order to graduate, that is to obtain the diploma of Pharmacy ("Ptychion" in Greek). During each semester a student has to follow ca. 4 to 6 courses with a total of around 24-39 hrs of attendance per week.

A course can consist of Lectures or Lectures and practical work (Laboratory). The courses offered in our Department are grouped in semesters (fall and spring). Lectures can be followed by students at will, whereas attendance of Laboratories is mandatory. In most courses there is not any formal assessment throughout the semester. In rare cases, Lecturers offer partial exams within the semester and the grades obtained at these exams are taken into account in the final mark. However, in the Labs the students are constantly examined usually orally on the theory and practice for each experiment they are to perform before or during their Lab work and finally have to present written account of their results one week after the end of each exercise. All these are taken into account in the final mark together with the results of the final written examination that is associated with each particular Lab. Failure to successfully perform up to 20% of the Laboratory sessions results in the obligation for the student to make up the lost sessions by additional Laboratory work. In cases in which students missed more than 20% of the Laboratory work accompanying a course, they are not allowed to take the final exam of the course. The exam can only be taken after the successful completion of the Laboratory work. The Laboratory work usually includes four to six Laboratory units per semester.

Courses are offered in the Greek language and the faculty members teach the related material based on Greek textbooks. These textbooks usually are either the exact translation of the English counterparts or are based on them. Thus the content and the level of these Greek textbooks are similar to the corresponding english ones. For an ECTS student whose native language is not greek and his/her greek is not good enough to be able to study from a greek textbook there can always be easily found an english textbook with similar content to that his/her fellow greek students use. These textbooks are offered on loan by our university central library.

During their final year and in addition to the courses they follow the students have to carry out a short research project called Diploma Work under the supervision of a member of the academic staff. At the end of this work, students have to provide a written account of their results and often to present them orally. A grade is then assigned to the student by the supervisor involved reflecting the overall performance of the student. This grade should be at least 5 for a successfully completed Diploma Work. A senior year student is also required to make study visits to both Pharmaceutical Industries and Drug Stores. The



duration of the practice period is approximately two semesters. Credit for this activity is given through the courses named Pharmaceutical Practice I & II. The grade assigned for these courses is the average of student performance, student reports and final examination grade.

A course is considered as being successfully passed only when the student has acquired at least the grade 5 out of 10 in the associated exams. The grading scheme, based on a 0 to 10 scale is as follows:

EXCELLENT **8.5 to 10**

VERY GOOD **6.5 to 8.5 (not included)**

GOOD **5.0 to 6.5**

UNSATISFACTORY **0 to 5.0 (not included)**

The minimum passing grade is 5.0 and all the grades are expressed as integers. However a course associated with Lab work requires in addition also successful completion of the Lab work and for the final mark both the grade in the exam and the Lab performance are considered with factors which vary from Lab to Lab. Exams are offered to the students after the end of each semester and repeat exams in September. However students who have failed in these exams or not participated at all can sit for these exams as many times as they wish in the following exams periods. A student is considered as having completed his/her studies in our Department only when he/she has passed all the exams associated with all courses consisting our curriculum.

Taking into account the Greek higher education system the basic requirements of the ECTS system for 30 credits for each semester was met in the Department by initially assigning for each 1 hr per week per semester of Lecture and Lab work 1 ECTS credit. Additional ECTS credits were then added to those of the course that are considered as the most hard for the students to be passed that is those requiring higher student workload.

ECTS students who have studied for at least a year in our institution can be considered as candidates to obtain the Diploma (Ptychion) in Pharmacy offered by the Department for undergraduate studies. The ECTS Committee of our Department dealing with the recognition of studies carried out abroad will consider students transcripts of records and their performance at our Department. Courses successfully completed abroad will then correlated to those in Patras. If there is no need for additional courses to be taken by the student in Patras in order to fulfil the requirements imposed by our curriculum this committee will propose the General Assembly of the Department to offer our Diploma (Ptychion) to that particular student. Otherwise, the student will have to attend and successfully pass all those courses that are needed to complete our curriculum.

b. Academic Calendar

Academic Calendar 2024-2025	Start	End
⌚ Fall Semester Courses	30.09.2024	10.01.2025
⌚ Fall Semester Exams	20.01.2025	07.02.2025
⌚ Spring Semester Courses	17.02.2025	30.05.2025
⌚ Spring Semester Exams	10.06.2025	27.06.2025
⌚ September Exams (Prev. Academic Year)	28.08.2024	25.09.2024



c. University Holidays & Days-off

The University academic year runs from September to June.

- 28 October: The Ochi Day [National Celebration]
- 17 November: Polytechnio Day [Anniversary of the 1973 Students' uprising in the National Technical University of Athens against the junta]
- 30 November: St. Andrew Day [Patron Saint of the city of Patras]
- 24 December - 6 January: Christmas Holidays
- January 30: The Three Holy Hierarchs [Celebration of the Education Day]
- Clean Monday [Orthodox Shrove Monday, Movable]
- 25 March, Dual holiday: 1. Anniversary of the declaration of the start of Greek War of Independence from the Ottoman Empire, in 1821. 2. Celebration of the Annunciation of the Lord.
- Orthodox Easter Holidays [Movable]
- 1 May: Labor Day
- 24 June: Holy Spirit Monday
- Students' Elections Day [Spring, Movable]

d. Curriculum & Courses for 2024-2025

Starting from the Academic Year 2016-2017, the Department's Assembly redesigned and reshaped the Curriculum of the Department of Pharmacy in order to cover modern scientific fields, as well as to comply with the corresponding European Union standards.

The New Curriculum of the Department of Pharmacy is being implemented gradually and annually from 2016-2017 with its first graduates completing the E Year in the Academic Year 2020-2021 (completion of the 10th semester of studies in June 2021).

The Old Curriculum is inactive - completed at the Academic Year 2019-2020.

The Curriculum applies:

to students enrolled in the 1st semester of the academic year 2016-2017 and thereafter, who follow -and will be examined in- the courses coded as "PHA-XXX-NEW" [New Curriculum of the Department of Pharmacy].



DEPARTMENT OF PHARMACY - COURSES - ACADEMIC YEAR: 2024-2025

**NEW CURRICULUM
1' YEAR STUDENTS FROM 2016 - 2017 & LATER**

YEAR 1' - 1st SEMESTER

(Fall, Running from 2016-2017)

Course Code Erasmus*	TITLE	TEACHING ASSIGNMENT	L ◆	T ◆	Lb ❖	ECTS	Course Outline	
PHA-A11-NEW EN	General and Inorganic Chemistry	V. Magafa G. Zissi	◆●◆1 ■◆1	4	2	0	6	χ
PHA-A12 -NEW -	Introduction to Pharmaceutical Sciences	S. Hatziantoniou G. Pairas E. Papadimitriou A. Pyrioxou	●◆1 ●◆1 ◆●◆1 ■❖1	2	0	4	6	χ
PHA-A13 NEW -	Applied Mathematics	D. Georgiou	●◆4	3	1	0	5	χ
PHA-A14 -NEW EN	Cell Biology	G. Lagoumartzis G. Patrinos A. Pyrioxou	●◆1 ●◆1 ■❖1	4	0	0	5	χ
PHA-A15 -NEW -	Informatics	G. Spyroulias	●◆❖1 4	2	1	4	6	χ
PHA-A16 -NEW EN	English Language & Terminology I	Chr. Papagianni	■◆5	3	0	0	2	χ
		TOTAL	18	4	8	30		

Student Labs [SL] No: 4 & 7 - GO TO Building Plan Overview ↗

- ◆ Course Communication Officer
- Faculty Member
- Laboratory Teaching Staff Member
- ◆ Appointed Teaching Staff
- Academic Scholar
- Invited Speaker
- ◆ Lectures - Tutorial Classes, ❖ Laboratories

Affiliation - Department of: Pharmacy: 1, Mathematics: 4, Foreign Lang. Teaching Unit: 5.

* EN: Instructed/Guided self study in english for Erasmus Students.

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DEPARTMENT OF PHARMACY - COURSES - ACADEMIC YEAR: 2024-2025

NEW CURRICULUM

1' YEAR STUDENTS FROM 2016 - 2017 & LATER

YEAR 1' - 2nd SEMESTER ↳

(Spring, Running from 2016-2017)

Course Code Erasmus*	TITLE	TEACHING ASSIGNMENT	L ◆	T ◆	Lb ❖	ECTS	Course Outline
PHA-A21 -NEW EN	Analytical Chemistry	③ F. Lamari ●◆❖1 V. Magafa ❖1 G. Pairas ♦●◆❖1 G. Spyroulias ●❖1 G. Zissi ■❖1	4	2	4	5	豁
PHA-A22 -NEW -	Biochemistry I	⑧ G. Lagoumintzis ●◆❖1 K. Poulas ♦●◆❖1 G. Spyroulias ●◆1 A. Pyrioxou ■❖1	4	0	3	7	豁
PHA-A23 -NEW -	Morphology of Human Body	A. Zygomalas ◆◆2	3	0	0	4	豁
PHA-A24 -NEW EN	Organic Chemistry	S. Nikolaropoulos ♦●◆1 F. Lamari ●◆1 A. Argyriou ●◆1	4	2	0	6	豁
PHA-A25 -NEW EN	Physiology I	C. Mikelis ●◆1	4	0	0	6	豁
PHA-A26 -NEW EN	English Language & Terminology II	Chr. Papagianni ■◆5	3	0	0	2	豁
TOTAL		22	4	7	30		

Student Labs [SL] No: ③ & ⑧ - GO TO Building Plan Overview ↳

♦ Course Communication Officer

● Faculty Member

■ Laboratory Teaching Staff Member ♦ Appointed Teaching Staff

○ Academic Scholar □ Invited Speaker

◆ Lectures - Tutorial Classes, ❖ Laboratories

Affiliation - Department of: Pharmacy: 1, Medicine: 2, Foreign Lang. Teaching Unit: 5.

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DEPARTMENT OF PHARMACY - COURSES - ACADEMIC YEAR: 2024-2025
NEW CURRICULUM
1' YEAR STUDENTS FROM 2016 - 2017 & LATER

YEAR 2' - 3rd SEMESTER ↵
(Fall, Running from 2017-2018)

Course Code Erasmus*	TITLE	TEACHING ASSIGNMENT	L ◆	T ◆	Lb ❖	ECTS	Course Outline
PHA-B11-NEW -	Biochemistry II G. Lagoumintzis K. Poulas A. Pyrioxou	⑧ ●◆❖1 +●◆❖1 ■❖1	4	0	3	7	合
PHA-B12-NEW EN	Synthetic Organic Chemistry M. Fousteris S. Nikolaropoulos	② ●◆❖1 +●◆1	4	2	4	8	合
PHA-B13-NEW -	Physical Chemistry Ch. Kontoyannis M. Orkoula D. Kanellopoulou	⑤ +●◆❖1 ●◆❖1 ◆❖1	4	0	3	7	合
PHA-B14-NEW EN	Physiology II C. Mikelis	●◆1	4	0	0	6	合
PHA-B15-NEW EN	English Language & Terminology III Chr. Papagianni	■◆5	3	0	0	2	合
TOTAL			19	2	10	30	

Student Labs [SL] No: ②, ⑤ & ⑧ - GO TO Building Plan Overview ↵

- ◆ Course Communication Officer
- Faculty Member
- Laboratory Teaching Staff Member
- ◆ Appointed Teaching Staff
- Academic Scholar
- Invited Speaker
- ◆ Lectures - Tutorial Classes, ❖ Laboratories

Affiliation - Department of: Pharmacy: 1, Medicine: 2, Foreign Language Teaching Unit: 5.

* EN: Instructed/Guided self study in english for Erasmus Students.

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DEPARTMENT OF PHARMACY - COURSES - ACADEMIC YEAR: 2024-2025
NEW CURRICULUM
1' YEAR STUDENTS FROM 2016 - 2017 & LATER

YEAR 2' - 4th SEMESTER
(Spring, Running from 2017-2018)

Course Code Erasmus*	TITLE	TEACHING ASSIGNMENT	L ◆	T ◆	Lb ❖	ECTS	Course Outline
PHA-B21-NEW -	Bioethics – Elements of Drug Regulation S. Hatziantoniou G. Pairas G. Patrinos G. Sivolapenko	●◆1 ●◆1 ●◆1 ▲●◆1 □◆	3	0	0	6	合
PHA-B22-NEW EN	Molecular Genetics and Pharmacogenomics G. Lagoumintzis G. Patrinos A. Pyrioxou	⑧ ●◆1 ▲●◆❖1 ■❖1	3	0	3	7	合
PHA-B23-NEW -	Pharmaceutical Microbiology and Immunology K. Poulas G. Sivolapenko	●◆1 ●◆1	4	1	0	7	合
PHA-B24-NEW EN	Physical Pharmacy H. Mazarakioti	④ ◆❖1	4	0	3	8	合
PHA-B25-NEW EN	English Language & Terminology IV Chr. Papagianni	■◆5	3	0	0	2	合
TOTAL			17	1	6	30	

Student Labs [SL] No: ④ & ⑧ - GO TO Building Plan Overview ↵

- ★ Course Communication Officer
- Faculty Member
- Laboratory Teaching Staff Member
- ◆ Appointed Teaching Staff
- Academic Scholar
- Invited Speaker
- ◆ Lectures - Tutorial Classes, ❖ Laboratories

Affiliation - Department of: Pharmacy: 1, Foreign Lang. Teaching Unit: 5.

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DEPARTMENT OF PHARMACY - COURSES - ACADEMIC YEAR: 2024-2025

NEW CURRICULUM

1' YEAR STUDENTS FROM 2016 - 2017 & LATER

YEAR 3' - 5th SEMESTER

(Fall, Running from 2018-2019)

Course Code Erasmus*	TITLE	L ◆	T ◆	Lb ❖	ECTS	Course Outline
PHA-C11-NEW	Bioinorganic Chemistry - Molecular Simulations G. Spyroulias ●◆❖ 1 A. Argyriou ●◆❖ 1	3	0	3	6	opl
PHA-C12-NEW EN	Pharmaceutical Biotechnology ③ G. Sotiropoulou +●◆❖ 1 G. Zissi ■❖ 1 A. Pyrioxou ■❖ 1	4	0	3	6	opl
PHA-C13-NEW EN	Pharmacology I ⑦ E. Papadimitriou ●◆❖ 1 S. Topouzis +●◆❖ 1 A. Pyrioxou ■❖ 1	4	0	2	6	opl
PHA-C14-NEW	Spectrometry ⑤ Ch. Kontoyannis ●◆ 1 M. Orkoula +●◆❖ 1 G. Spyroulias ●◆ 1 M. Lykouras ♦◆❖ 1	4	0	3	7	opl
PHA-C15-NEW EN	Chemistry of Natural Products F. Lamari ●◆ 1 V. Magafa +●◆ 1	4	0	0	5	opl
TOTAL		19	0	11	30	

Student Labs [SL] No: ③, ⑤ & ⑦ - GO TO Building Plan Overview ↳

- ♦ Course Communication Officer
- Faculty Member
- Laboratory Teaching Staff Member ♦ Appointed Teaching Staff
- Academic Scholar □ Invited Speaker
- ◆ Lectures - Tutorial Classes, ❖ Laboratories
- Affiliation - Department of: Pharmacy: 1

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DEPARTMENT OF PHARMACY - COURSES - ACADEMIC YEAR: 2024-2025
NEW CURRICULUM
1' YEAR STUDENTS FROM 2016 - 2017 & LATER

YEAR 3' - 6th SEMESTER
(Spring, Running from 2018-2019)

Course Code Erasmus*	TITLE	L ◆	T ◆	Lb ❖	ECTS	Course Outline
PHA-C21-NEW -	Separation Techniques - - Electroanalytical Methods. 5 Ch. Kontoyannis ◆ ● ◆ 1 M. Orkoula ● ◆ ❖ 1 M. Lykouras ◆ ❖ ◆ 1	4	0	3	6	opl
PHA-C22-NEW EN	Pharmaceutical Technology I 6 S. Antimissiaris ● ◆ 1 K. Avgoustakis ◆ ● ◆ ❖ 1 S. Hatziantoniou ● ◆ ❖ 1	5	1	3	6	opl
PHA-C23-NEW EN	Pharmacognosy I 1 F. Lamari ◆ ● ◆ ❖ 1 V. Magafa ● ◆ ❖ 1 G. Zissi ■ ❖ 1	4	0	4	6	opl
PHA-C24-NEW EN	Pharmacology II E. Papadimitriou ◆ ● ◆ 1 S. Topouzis ● ◆ 1	4	1	0	5	opl
PHA-C25-NEW EN	Medicinal Chemistry I 2 M. Fousteris ◆ ● ◆ ❖ 1	5	1	4	7	opl
TOTAL		22	3	14	30	

Student Labs [SL] No: ①, ②, ⑤, & ⑥ - GO TO Building Plan Overview ↳

- ◆ Course Communication Officer
- Faculty Member
- Laboratory Teaching Staff Member
- ◆ Appointed Teaching Staff
- Academic Scholar
- Invited Speaker
- ◆ Lectures - Tutorial Classes, ❖ Laboratories
- Affiliation - Department of: Pharmacy: 1

* EN: Instructed/Guided self study in english for Erasmus Students.

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DEPARTMENT OF PHARMACY - COURSES - ACADEMIC YEAR: 2024-2025

NEW CURRICULUM

1' YEAR STUDENTS FROM 2016 - 2017 & LATER

YEAR 4' - 7th SEMESTER (Fall, Running from 2019-2020)

Course Code Erasmus*	TITLE	L ◆	T ◆	Lb ❖	ECTS	Course Outline
PHA-D11-NEW -	Clinical Pharmacy G. Sivolapenko ●◆1	3	0	0	6	合
PHA-D12-NEW EN	Pharmaceutical Technology II S. Antimissiaris ♦●◆❖1 K. Avgoustakis ●◆1 S. Hatziantoniou ●◆❖1	5	2	4	9	合
PHA-D13-NEW EN	Pharmacognosy II F. Lamari ●◆❖1 V. Magafa ♦●◆❖1 G. Zissi ■❖1	4	0	4	8	合
PHA-D14-NEW EN	Medicinal Chemistry II S. Nikolaropoulos ♦●◆1 G. Pairas ●◆1	5	1	0	7	合
TOTAL		17	3	8	30	

Student Labs [SL] No: ① & ⑥ - GO TO Building Plan Overview ↗

- ♦ Course Communication Officer
- Faculty Member
- Laboratory Teaching Staff Member
- ◆ Appointed Teaching Staff
- Academic Scholar
- Invited Speaker
- ◆ Lectures - Tutorial Classes, ❖ Laboratories
- Affiliation - Department of: Pharmacy: 1

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DEPARTMENT OF PHARMACY - COURSES - ACADEMIC YEAR: 2024-2025
NEW CURRICULUM
1' YEAR STUDENTS FROM 2016 - 2017 & LATER

YEAR 4' - 8th SEMESTER
(Spring, Running from 2019-2020)

Course Code Erasmus*	TITLE	L ◆	T ◆	Lb ❖	ECTS	Course Outline
PHA-D21 NEW	Biopharmaceutics - Pharmacokinetics G. Sivolapenko ●◆❖1	4	2	4	7	合
PHA-D22-NEW	Introduction to Internal Medicine - Emergency Medicine D. Velissaris ●◆❖2	3	0	0	3	合
PHA-D23-NEW EN	Molecular Pharmacology E. Papadimitriou +●◆❖1 A. Pyrioxou ■❖1	4	0	4	7	合
PHA-D24-NEW EN	Toxicology S. Topouzis ●◆1	4	1	0	5	合
PHA-D25-NEW EN	Medicinal Chemistry III S. Nikolaropoulos +●◆❖1 G. Pairas ●◆❖1 A. Argyriou ●◆❖1	5	1	4	8	合
TOTAL		20	4	12	30	

Student Labs [SL] No: ②, ⑦ & ⑧ - GO TO Building Plan Overview ↳

- ♦ Course Communication Officer
 - Faculty Member
 - Laboratory Teaching Staff Member ♦ Appointed Teaching Staff
 - Academic Scholar □ Invited Speaker
 - ◆ Lectures - Tutorial Classes, ❖ Laboratories
- Affiliation - Department of: Pharmacy: 1, Medicine: 2

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DEPARTMENT OF PHARMACY - COURSES - ACADEMIC YEAR: 2024-2025

NEW CURRICULUM

1' YEAR STUDENTS FROM 2016 - 2017 & LATER

YEAR 5' - 9th SEMESTER
(Fall, Running from 2020-2021)

Course Code Erasmus*	TITLE	L ◆	T ◆	Lb ❖	ECTS	Course Outline
PHA-E11-NEW	Bachelor's Thesis I** Faculty Member Laboratory Teaching Staff Member	● or ■	0 0	15	15	合
PHA-E12-NEW EN	Basic Principles of Nuclear Pharmacy & Radiopharmacy S. Antimissiaris K. Avgoustakis	●◆1 +●◆1	3 1	0	3	合
PHA-E13-NEW -	Pharmaceutical Practice S. Antimissiaris S. Nikolaropoulos G. Pairas S. Topouzis	●❖1 +●❖1 ●❖1 ●❖1 □❖1	0 0	15	10	合
PHA-E14-NEW EN	Pharmaco-Economics K. Vasileiou	+●1	3 0	0	2	合
TOTAL		6	1	30	30	

- ◆ Course Communication Officer
- Faculty Member
- Laboratory Teaching Staff Member
- ◆ Appointed Teaching Staff
- Academic Scholar
- Invited Speaker
- ◆ Lectures - Tutorial Classes, ❖ Laboratories
- Affiliation - Department of: Pharmacy: 1

* EN: Instructed/Guided self study in english for Erasmus Students.

** Only after individual agreement with a Faculty Member

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DEPARTMENT OF PHARMACY - COURSES - ACADEMIC YEAR: 2024-2025
NEW CURRICULUM
1' YEAR STUDENTS FROM 2016 - 2017 & LATER

YEAR 5' - 10th SEMESTER
(Spring, Running from 2020-2021)

Course Code Erasmus*	TITLE	L ◆	T ◆	Lb ❖	ECTS	Course Outline
PHA-E21-NEW	Bachelor's Thesis II** Faculty Member ● <i>or</i> Laboratory Teaching Staff Member ■	0	0	15	15	合
PHA-E22-NEW	Pharmaceutical Care S. Antimissiaris ●❖1 A. Argyriou ●❖1 S. Nikolaropoulos ♦●❖1 G. Pairas ●❖1 S. Topouzis ●❖1 □❖1	0	0	15	10	合
PHA-E23-NEW EN	Chemistry & Technology of Cosmetics K. Avgoustakis ♦●◆1 S. Hatziantoniou ●◆1	3	0	3	5	合
TOTAL		3	0	33	30	

- ♦ Course Communication Officer
- Faculty Member
- Laboratory Teaching Staff Member
- ◆ Appointed Teaching Staff
- Academic Scholar
- Invited Speaker
- ◆ Lectures - Tutorial Classes, ❖ Laboratories
- Affiliation - Department of: Pharmacy: 1

* EN: Instructed/Guided self study in english for Erasmus Students.

** Only after individual agreement with a Faculty Member.



POSTGRADUATE STUDIES

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Departmental Postgraduate Program

"Drug Discovery & Development" ☈

a. Outline

The Drug Discovery and Development (DDD) Master of Science (MSc) degree is an 18-months curriculum offering a high quality and multidisciplinary training in modern fields of Pharmaceutical Sciences, including all stages required from the discovery of a new bioactive compound until its release as a drug, as well as the strategies followed for the discovery of bioactive compounds. The program aims at:

- Training young scientists in modern fields of Pharmaceutical Sciences to create appropriate human resources that will support the country's participation in international scientific developments and contribute to the assimilation of the introduced technology and its penetration into new disciplines of Science.
- Linking the research effort to business development, enhancing technology transfer mechanisms to Greek pharmaceutical companies' production units and meeting specific professional needs related to the business design, development and distribution of pharmaceutical products.
- The production of scientists capable of pursuing doctoral studies in related scientific fields.
- Providing theoretical and practical knowledge to postgraduate students in order to successfully meet the requirements of positions of responsibility in the pharmaceutical and related industries, Regulatory Organizations, as well as diagnostic and research laboratories, in Greece and internationally.

Graduates from Health Sciences and other related subject areas are admitted. The maximum number of enrolled students shall be no more than forty (40). English language proficiency is a main requirement. Total ECTS credits required for obtaining the degree amounts to 90, distributed in three (3) semesters (30 ECTS per semester). MSc students are required to successfully attend and complete all courses, compulsory or elective, of the specialization in which they have enrolled, to participate as tutors in laboratory courses and tutorials, to attend seminars and study courses and draw their MSc thesis in subject related to the specialization they study. Lessons and writing the thesis will be in Greek and in specific cases in English.

b. Awarded Title - Specializations

The Postgraduate Studies Program "Drug Discovery and Development" leads to the award of a Master of Science (MSc) Degree in "**Drug Discovery and Development**" on the following **Specializations**:

1. Medicinal Chemistry – Natural Products
2. Industrial Pharmaceutics
3. Molecular Pharmacology and Biotechnology



c. Curriculum: Courses Outlines & Teaching Assignments in web links
[x]: ECTS

The courses are semestral, divided into fall and spring semesters. Total credit points (ECTS) required for obtaining the MSc amount to 90 ECTS, distributed in three semesters (30 ECTS per semester). Courses' attendance is mandatory.

A. Core Courses (1st semester)

Graduate students must choose three (3) out of four (4) courses among DPHA_1, DPHA_2, DPHA_3 & DPHA_4. Courses DPHA_5 και DPHA_6 are mandatory for all.

- DPHA_1 [Design and Discovery of Bioactive Compounds \[8\]](#) ⇡
- DPHA_2 [Design and Development of Pharmaceutical Products \[8\]](#) ⇡
- DPHA_3 [Pharmaceutical Analysis-Biospectroscopy \[8\]](#) ⇡
- DPHA_4 [Preclinical and Clinical Drug Evaluation \[8\]](#) ⇡
- DPHA_5 [Research Methodology and Ethics \[4\]](#) ⇡
- DPHA_6 [Literature-based seminar \[8\]](#) ⇡

B. Specialization Courses (2nd semester)

Students should choose two (2) courses from the **specialization** they have enrolled in and one (1) from any specialization. ECTS credits for all specialization courses are 5.

1. Medicinal Chemistry - Natural Products

- DPHA_A01 [Natural Products in Drug Discovery \[5\]](#) ⇡
- DPHA_A02 [Modern methods in drug synthesis \[5\]](#) ⇡
- DPHA_A03 [Biomolecular NMR and protein architecture \[5\]](#) ⇡

2. Industrial Pharmacy

- DPHA_B01 [Nanomedicines and special systems for administration and/or targeting of drugs/imaging agents \[5\]](#) ⇡
- DPHA_B02 [Statistics and quality management in Pharmacy \[5\]](#) ⇡
- DPHA_B03 [Applied pharmaceutical analysis and characterization of pharmaceutical formulations \[5\]](#) ⇡

3. Molecular Pharmacology and Biotechnology

- DPHA_C01 [Molecular Targets of Drug Action \[5\]](#) ⇡
- DPHA_C02 [Applied Biotechnology & Bioinformatics \[5\]](#) ⇡
- DPHA_C03 [Precision Therapeutics \[5\]](#) ⇡

C. Diploma Thesis (2nd & 3rd semesters)

- DPHA_DIP1 [Diploma Thesis \(2nd semester\) \[15\]](#) ⇡
- DPHA_DIP2 [Diploma Thesis \(3rd semester\) \[15\]](#) ⇡



Departmental Postgraduate Program

"Cosmetology - Preparation and Evaluation of Cosmetic Products" ☰

a. Outline

The subject of this Postgraduate Program is the theoretical and practical education and training of young scientists in the design, production (in small and industrial scale) and evaluation (quality control, efficiency and safety) of cosmetic products, both theoretically and practically.

The aim of the program is:

- to cover research and training needs in the field of cosmetic products
- to develop research in this field and thereby promote new knowledge.

Graduates of the course will have the cognitive background to work inter alia at the cosmetics industry and at National and International regulatory bodies.

In addition, it is expected that the research link with the Greek production units will be strengthened, through the creation of well-qualified and specialized human resources and the transfer of know-how that will contribute to the promotion of the country's development needs.

The duration of the curriculum is 18 months divided in three (3) semesters (90 ECTS) and includes specialization courses and a thesis.

Graduates from Health Sciences and other related subject areas are admitted.

The number of admissions to the program per year is up to ten (10).

The tuition fee of the program is 1,800€ (600€ per semester).

b. Awarded Title

The Postgraduate Studies Program "Cosmetology - Preparation and Evaluation of Cosmetic Products" leads to the award of a Master of Science (MSc) Degree in "Cosmetology - Preparation and Evaluation of Cosmetic Products".



c. Curriculum: Courses Outlines & Teaching Assignments in [web links](#)
[No] = ECTS

Semester A

- PHA-COS-11 Physiology of Human Skin-Dermatology [6] ⇨
- PHA-COS-12 Legislation and Regulatory Framework
on the Production and Distribution of Cosmetic Products [6] ⇨
- PHA-COS-13 Ingredients of Cosmetic Products [6] ⇨
- PHA-COS-14 Microbiology [6] ⇨
- PHA-COS-15 Development of Cosmetic Products [6] ⇨

Semester B

- PHA-COS-21 Quality and Safety Testing of Cosmetic Products [6] ⇨
- PHA-COS-22 Efficacy Testing and Claim Support Techniques [6] ⇨
- PHA-COS-23 Methods of Instrumental Analysis for Cosmetic Products [6] ⇨
- PHA-COS-24 Industrial Production of Cosmetic Products [6] ⇨
- PHA-COS-25 Practical Course on Preparation of Cosmetic Products [6] ⇨

Semester C

- PHA-COS-31 Diploma Thesis [30] ⇨



Inter-Departmental Postgraduate Program

"Life Sciences Informatics"

a. Outline

The Postgraduate Program Life Sciences Informatics (LSI) was founded in 2003.

It is currently co-organized by the Departments of Medicine, Computer Engineering and Informatics, Biology and Pharmacy, of the University of Patras.

We aim to provide high quality education in Life Sciences Informatics with prospects both in academia and in the field of applications. The graduates will be able to perform independent academic research in the field of Life Sciences Informatics and solve life sciences problems by developing novel informatics tools (databases, models, acquisition, data analysis and visualization software etc.). The program aims to meet the educational, research, health, technological and social needs and contribute to the development of this new hybrid scientific field.

The program enrolls up to 30 graduate students per year, with a first degree in Life Sciences (Biology, Medicine, Pharmacy, Biotechnology, Chemistry etc) or Informatics and related fields (Physics, Mathematics, Engineering etc).

The studying period for the Master Program is 1.5 years (3 semesters, 90 ECTS) and includes specialization courses and a thesis. Teaching will be in Greek and English.

b. Awarded Title

The Interdepartmental Postgraduate Programme "Life Sciences Informatics" (LSI) leads to the award of a Master's Degree (MSc) in "**Informatics for Life Sciences**" and in the following **Specializations**:

1. Bioinformatics
2. Medical Informatics



c. Curriculum

1st semester

- LSI-101 Life at the cellular level:principles of cell and molecular biology [5] ⇨
- LSI-102 Principles of Pathophysiology and Therapeutics [5] ⇨
- LSI-103 Introduction to Programming [6] ⇨
- LSI-104 Mathematics and Tools for biomedical data analysis I [6] ⇨
- LSI-105 Principles of Statistics & Data Analysis [6] ⇨
- LSI-106 Seminar Series I [2] ⇨

2nd Semester

- LSI-201 Artificial Intelligence, Machine Learning and applications [5] ⇨
- LSI-202 Mathematics and Tools for biomedical data analysis II [5] ⇨
- LSI-203 Introduction to Biomedical Database design, implementation and information retrieval [5] ⇨
- LSI-204 Seminar Series II [2] ⇨

Specialization [Elective Stream]

Bioinformatics

- LSI-205 Bioinformatics I [8] ⇨
- LSI-206 Genes and Genomes [5] ⇨

Medical Informatics

- LSI-207 Medical Informatics I [8] ⇨
- LSI-208 Health systems management and principles of medical practice [5] ⇨

3rd Semester

- LSI-301 Diploma Research [20] ⇨
- LSI-302 Big Data Retrieval and processing [4] ⇨
- LSI-303 Transferable Skills [2] ⇨

Specialization [Elective Stream]

Bioinformatics

- LSI-304 Bioinformatics II [4] ⇨

Medical Informatics

- LSI-305 Medical Informatics II [4] ⇨



Inter-Institutional Postgraduate Program

"Nanomedicines for Drug Delivery (NANOMED)".

a. Outline

The Nanomedicine for Drug Delivery (NANOMED) Master's degree is a 24-months curriculum offering a high quality and multidisciplinary education in the emerging field of Nanomedicine. The design of nanomedicines for drug delivery requires combining knowledge from Pharmacy, Biology, Chemistry, Medicine, Physics, and Engineering. Thus four European Universities have brought together their expertise in Nanomedicine to create a unique and comprehensive training programme: Paris Descartes University (coordinator, France), Patras University (Greece), Pavia University (Italy) and Angers University (France).

Moreover, renowned experts in the field of Nanomedicine coming from academia and industry are also involved as guest Lecturers or invited Professors. The curriculum provides both theoretical and practical knowledge for 3 semesters combined with a 6-months traineeship. Application requirements will include the completion of a Bachelor's degree in Pharmacy, or (under special provisions) in Medicine, Chemistry, Biology, Biotechnology, Chemical Engineering, Biochemistry, Material Sciences or other adequate discipline. English language proficiency is a main requirement.

The NANOMED EMJMD (Nanomedicine for Drug Delivery) aims at filling the gap between basic training in Drug Delivery currently provided by most Schools of Pharmacy at the Master's level, and advanced knowledge in Nanomedicine required for post-graduate young scientists. The NANOMED graduates will thus understand and be able to integrate the advances in Nanotechnology towards the development of Advanced Particulate Drug Delivery Systems.

Diploma

NANOMED EMJMD students receive Titles from all four participating Universities, together with a Document signed by all four Academic Coordinators. The possibility for a joint-Diploma is currently being investigated.

Tuition Fees

The tuition fees for participation in NANOMED EMJMD are 4500 €.

b. Links to Curriculum & to the Coordinating Department

- [Curriculum !\[\]\(b2f7db1ed96adb85248447529c599e3e_img.jpg\)](#)
- [Université Paris Descartes: NANOMED !\[\]\(393a08f03917179094188eb343d5fd12_img.jpg\)](#)



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