

Sophia G. Antimisiaris, BPharm, Ph.D



CURRENT POSITION

- Professor of Pharmaceutics, Department of Pharmacy, University of Patras, 26500 Rio, Greece
- Director, Laboratory of Pharmaceutical Technology, University of Patras, Greece
- Collaborating Faculty member, Institute of Chemical Engineering, ICEHT/FORTH

WEBSITES

<http://www.pharmacy.upatras.gr/ErgPharmTechno.htm>

<http://www.iceht.forth.gr/about.html>

ORCID ID <https://orcid.org/0000-0002-2312-5848>

SCOPUS Author ID <https://www.scopus.com/authid/detail.uri?authorId=6604012432>

Google Scholar: https://scholar.google.gr/citations?hl=en&user=Usdqy_oAAAAJ

PubMed: <https://www.ncbi.nlm.nih.gov/pubmed/?term=antimisiaris+s>

PERSONAL

Tel: +30-2610-962332 mob:6937503020

e-mail: santimis@upatras.gr; santimis@gmail.com

EDUCATION / AFFILIATIONS / POSTS

1980-1984: Dept. of Pharmacy, **University of Athens**, GR. *Degree:* BPharm (8.4/10)

1984-1988: Dept of Pharmacy, University of Athens, GR. *Degree:* PhD (Biopharmaceutics, Excellent)

1988-1989: Postdoc Research Assistant, Laboratory of Prof. Karl H.L.Hwang, School of Pharmacy, **University of South California; LA, USA**

1989-1993: Lecturer of Pharmaceutics, **University of Patras** (UPAT);

1992-1993: Visiting Professor, Research associate, Laboratory of Prof. Gregory Gregoriadis, Centre for Drug Delivery Research (CDDR), School of Pharmacy, **University of London; UK.**

1993-2002: Assistant Prof. Dept. of Pharmacy, UPAT;

2002-10: Associate Prof. Dept of Pharmacy, UPAT;

2006-: Collaborating Member, Institute of Chemical Engineering, **ICEHT-FORTH;**

2009-: Professor, Department of Pharmacy, UPAT

RESEARCH ACTIVITIES

- **Nanomedicines** for Controlled/Targeted Drug Delivery; Innovative nanomedicines Bio-Inspired from Extracellular vesicles;
- Improving Drug Pharmacokinetics through **Advanced Drug Delivery (Liposomal) System** Design;
- Novel **Controlled-(Release)-Drug-Eluting** Surfaces for Bioactive agents, Antimicrobials, etc;
- Platform systems for Ocular, Alveolar and Vaginal Drug Delivery Systems, for sustained release of drugs that act locally;

- Nanoparticles for **Brain targeting**, for Cancer or Alzheimer's disease, diagnosis and/or therapy;
- Improving the anticancer properties of therapeutics by development of targeted carrier systems, with inherit anticancer properties;
- Biocompatible nanoparticles for sustained release of therapeutics/bioactive agents during bone regeneration;

PARTICIPATION IN RESEARCH PROJECTS-FUNDING

Received 3.5M€ total funding for research, from: (i) European Committee (under FP6, FP7, Horizon 2020, EuroNanoMed, Marie Curie, INTERREG, ERAMUS+ and other Framework programs), (ii) National competitive programs (Smart Specialization, Innovation funds etc.) and. (iii) Industry; Role: Coordinator and/or PI.

TEACHING ACTIVITIES

(1989-) *Undergraduate*

Pharmaceutical Technology, Biopharmaceutics and Pharmacokinetics, Pre-Formulation/Design;

Preparation of Drug Formulations.

(1995-) *Postgraduate*

Applied Pharmacokinetics, Pharmaceutical Technology; Innovative Nanoformulations, Advanced Drug Delivery Systems, Liposome Technology, Novel Drug Delivery Systems.

PRIZES-HONORS

1981-1984: Scholarships from Greek State Scholarships' Foundation (IKY) for outstanding performance during all years of undergraduate studies (Ranking in top 5% of class)

1988-89: Research Fellowship, from University of South California (from NIH grant), L.A, USA.

1990: Invited to participate in the Socrates Inter-University Network on Advanced Drug Delivery Systems, by the Coordinator Prof. Rogerio Gaspar (University of Coimbra, PT).

1992-93: Research Fellowship, University of London (from MOD funded project), London, UK.

1993: Grant for participation as invited speaker in NATO ASI: "Targeting of Drugs: Advances in System Constructs", Sounio, Greece (1993).

2008-2016: 3 Poster or short oral talk prizes in Panhellenic Pharmaceutical Congresses, for young researchers of my group.

2011: EuroNanoForum Budapest. Best poster award to my PhD student.

2012-: Member of the Jury Committee (one of the 70 honorable members) for the Maurice-Marie Janot Honorary Award and Lecture.

2014: Short-oral-communication prize for Post-Doc, Dr. S. Mourtas. (Prize: 1000 ILS) at the Israel-Greece Joint Meeting on Nanotechnology BioNanoscience, 20-23.10.2014, Weizmann Institute, Israel.

2017: Invitation as member of the **Advisory Board** of the School of Pharmacy, University of Catania (IT).

2018: Invitation to Chair Session "WS-2" in ICONAN Conference, Rome, IT, 2018

2019: Invitation to join the **faculty of the PhD Program** of Experimental Medicine at University of Pavia.

2022: Invitation to serve as Associate Editor in Journal of Liposomes Research

2022: Invitation by Elsevier to edit a book in Liposomes for Drug Delivery

CONFERENCE ORGANIZATION

President of Organizing Committee: Erasmus 10-day Workshops on Liposome Technology (1997)

Erasmus 10-day Workshops on Liposome Technology (1998); Erasmus 10-day Workshops on Liposome Technology (2000); International Workshop on Nanomedicines: Nanoparticulates for Drug Delivery”, September 11-22, Patras, Greece, (2008); 2nd Panhellenic Pharmaceutical Sciences Conference, September (2014), Patras, Greece; 2nd International Workshop on Nanomedicines, EMJMD NANOMED, Patras. July (2019); 6th International Workshop on Nanomedicines, EMJMD NANOMED, Patras. July (2023)

Member of Organizing Committee: International Conference on Drug Delivery for the third Millennium, Pisa, Italy, 10-12 Oct, **1999**; 2nd Mediterranean Meeting of the CRS- local Chapters «New perspectives in Controlled Release», Athens, **2001**; 1st International Symposium on Plasma Processing and Biomedical Applications- ISPRBA-1”, 27-20 September, Milos, Greece, **2008**; Iasted Conference on Nanotechnology and Applications-NANA 2008, 29/9 – 1/10, Crete, Greece, **2008** (regional committee) 5th International BBBB conference, Sept 26-28, **2013**, Athens, GR .; 2nd International Congress of CRS-Greek Local Chapter, 22-24 June **2016**, Athens GR

Scientific Committees: International Conference of European Association of Pharma Biotechnology [EAPB], Trieste, 2004; Pharma BioTec Europe Symposium of Pharmaceutical Biotechnology 25. – 28. April 2004, Trieste; 3rd Skin and Formulation Symposium, March 9-10, Versailles, France, 2009; all the Panhellenic Pharmaceutical Conferences (organized by: i. Panhellenic Pharmaceutical Society; ii. Pharmaceutical Society of Thessaloniki [Conferences of Applied Pharmacy], iii. The three Pharmacy Dept. in Greece [Conferences of Pharmaceutical Sciences], from 2010-to-date, and in many of the Conferences/Seminars organized by students of Pharmacy.

PROFESSIONAL AFFILIATIONS

- Pan-Hellenic Association of Pharmacists
- APGI/APV (Association de Pharmacie Galenique Industrielle)
- European Federation of Pharmaceutical Scientists (EUFEPS)
- AAPS (American Association of Pharm. Scientists)
- Controlled Release Society (CRS)
- CRS -Greek Chapter [President 1999-2001]
- International Liposome Society (ILS)
- Galenos Network for novel Drug Delivery Exploitation and Education

PROFESSIONAL ACTIVITIES

Editorial activities:

Editor Europe for the Journal of Biomedical Nanotechnology (2006-2017); Editorial Board Member of Journal of Drug Delivery (2010 -); Editorial Board Member of Drug Delivery (Hindawi) (2010-); Editorial Board Member Bio Med Research International (Hindawi) (2011-); Editorial Board Member of Pharmaceutics (MDPI) (2019-); Scientific Advisory Board Europe, of New Drugs (official publication of EAPB) (2004).

Associate Editor J. Liposomes Research (2022-)

Referee for >70 Pharmaceutical and related Scientific journals. (between which: *Nature Nanotechnology*, *J. Contr. Release*, *Small*, *ASC-Nano*, *Biomaterials*, *Nanomedicines*, *Advanced Drug Delivery Reviews*, *Langmuir*, *Pharmaceutical Research*, *IJP*, *EJPS*, *JPS*, *Drug Targeting*, *J. Lip. Research*, etc)

Research Evaluation Activities:

Research proposal Evaluation for European Commission, Research Directorate, 2003, (FP6); Research proposal Evaluation for European Commission, Research Directorate, 2004, (FP6); Research proposal Committee member & Raporateur EC, 2004, (FP6); Research proposal Evaluation for European Commission, Research Directorate, 2007 (FP7);, Mid-Term Evaluation of research project for EC-IMI, 2015 (Horizon 2020);

And > 20 program evaluations for international funding organizations

Member of Committees (abroad): Committee for an Industrial PhD approval, University of Denmark, 2010; Member of the **Advisory Board** of the School of Pharmacy of the University of Catania (2017-); Member of **Promotion Evaluation Committee** after invitation of the Scientific Council at King Abdulaziz City for Science and Technology (KACST) (2018)

National Committee activities:

Evaluator for the National Foundation of Drugs (EOF) for Bioequivalence Studies (2000-); President of the Western-Greece Committee for evaluation of Pharmacy Technicians (2006-); Member of the second degree Committee for authorization of Drugs of the National Foundation of Drugs (EOF) (2012-); Member of the general assembly of ELIDEK (National Foundation for Research Funding) (2018-); Member of the working group for Proposal Evaluations of ELIDEK (2019-)

UPAT and FORTH/ICE-HT Committees:

Member of the Committee for Academic Advancement of Dept of Pharmacy, UPAT (1992-2004); Member of the Committee for the Annual Pharmacy Dept. Guide (1992-1997); Department Coordinator of the Erasmus + mobility Program (initially Socrates and then Erasmus) for the Dept. of Pharmacy, Univ. of Patras (1998-to-date) ; Member of the Senate, Univ. of Patras (2004-2005) ; Member of the Graduate Studies committee, Dept. of Pharmacy, Univ. of Patras (1998-2018) ; Member of the Ethics Committee, UPAT (2008-2010); President of the Internal Evaluation Committee of the Dept. of Pharmacy, UPAT (2012-to-date).; Seminar Committee, FORTH/ICE-HT (2008-to-date)

PATENTS

6 National and/or European and 2 World Patents

PUBLICATIONS (GENERAL)

132 papers peer-reviewed journals, 12 chapters in books (or series), 295 Abstracts in proceeding of National & International conferences, 1 World patent, 1 PCT application and 4 Greek patents. Participation in > 170 International conferences/workshops;

Invited speaker in >70 National and International scientific meetings/workshops/conferences.

METRICS

Google Scholar 180 cited documents: **Citations** 6208 (all), 3442 (since 2018); **h-index**: 43 (all), 29 (since 2018); **i10-index**: 97 (all) , 63 (since 2018);

Scopus 132 cited documents: **Citations**: 4974; **h-index**: 38

10 REPRESENTATIVE PUBLICATIONS

1. S. Mourtas, M. Canovi, (..) , M. Gobbi, S. G. Antimisiaris*, *Curcumin-decorated nanoliposomes with very high affinity for amyloid-b1-42 peptide*, **Biomaterials**, 32: 6, 1635-1645, 2011[**IF=7.62**]
2. Canovi, M., Markoutsas, (..), Antimisiaris, S.G* *The binding affinity of anti-Aβ1-42 MAb-decorated nanoliposomes to Aβ1-42 peptides in vitro and to amyloid deposits in post-mortem tissue*. **Biomaterials** 32 (23), 5489-5497, 2011 [**IF=7.62**]
3. A.Skouras, S. Mourtas, (..), SG. Antimisiaris*. USPIO encapsulating nanoliposomes with high entrapping efficiency, stability and magnetic properties. **Nanomedicine: NBM** 7 (5), 572-579, 2011[**IF=6.69**]
4. K Papadia, E Markoutsas, S.G. Antimisiaris*. *A Simplified Method to Attach Antibodies on Liposomes*. **J. Biomed. Nanotechnol.** 10, 871-876, 2014. [**IF=7.57**]
5. T. Agalioti, (..), S. G. Antimisiaris, (..), A. Marazioti, and G.T. Stathopoulos. Mutant KRAS promotes malignant pleural effusion formation. **Nature Communications**, 8, 15205, 2017. [**IF=11.329**]
6. Blazaki, S., Pachis, K., Tzatzarakis, M., Tsilimbaris, M., Antimisiaris, S.G. Novel Liposome Aggregate Platform (LAP) system for sustained retention of drugs in the posterior ocular segment following intravitreal injection. *International Journal of Pharmaceutics* 576,118987 2020 [**IF 4.270**]

7. Pefani-Antimisiari, K., Athanasopoulos, D.K., Marazioti, A., (...), Svarnas, P., Antimisiaris, S.G. Synergistic effect of cold atmospheric pressure plasma and free or liposomal doxorubicin on melanoma cells *Scientific Reports* **2021** 11(1),14788 [IF 4.379].
8. Gkartziou, F., Giormezis, N., Spiliopoulou, I., Antimisiaris, S.G. Nanobiosystems for antimicrobial drug-resistant infections. *Nanomaterials* **2021** 11(5),1075 [IF 5.076].
9. Marazioti, A., Krontira, A.C., Behrend, S.J., (...), Lamort, A.-S., Stathopoulos, G.T. KRAS signaling in malignant pleural mesothelioma. *EMBO Molecular Medicine*, **2022**, 14(2), e13631 [IF 12.137].
10. Natsaridis E., Gkartziou, F., Mourtas S., Klepetsanis P.(.), Spiliopoulou I., Antimisiaris S.G. Moxifloxacin liposomes: Effect of liposome preparation method on physicochemical properties and antimicrobial activity against *Staphylococcus epidermidis*”, *Pharmaceutics*, 14(2), 370 **2022** [IF 6.321].

CHAPTERS IN BOOKS-BOOK SERIES

15 Chapters in Books or book series

BOOKS

Liposomes in Drug Delivery: Where, Why, How and Where (to deliver). Editor, Elsevier Publication, under production

INVITED PRESENTATIONS

85 INVITED PRESENTATIONS (Invited, Keynote and Plenary speaker) in International Conferences and Workshops,

MENTORING -MAJOR CONTRIBUTIONS TO THE EARLY CAREERS OF RESEARCHERS

I have mentored/supervised:

- >150 completed Pharmacy Student Diploma Theses
- 25 Master Theses (and 3 running are currently running)
- 15 PhDs (and 4 are currently running)
- 8 Post-Doc Researchers (and currently 4)
- and I am *currently supervising* 4 Pharmacy Diploma students; 5 Master students; 4 PhD students and 4 Post-Doc Scientists