**Curriculum Vitae**

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**Natassa Pippa**

**Pharmacist, MSc, PhD**

**Laboratory of Pharmaceutical Nanotechnology**

**Faculty of Pharmacy,**

**National and Kapodistrian University of Athens**

**Personal Details**

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| **Name- Surname:** | **Natassa (Anastasia-Georgia) Pippa** |
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| **Nationality:** | Greek |
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**Current Positions**

1. Postdoctoral Researcher in Department of Pharmaceutical Technology, Faculty of Pharmacy, National and Kapodistrian University of Athens, Greece (01-02-2018-today)
2. Evaluator of technical documents in National Evaluation Centre of Quality and Technology in Health (e-mail: [pippa@ekapty.gr](mailto:pippa@ekapty.gr)) (November 2017-today)
3. Lead auditor in National Evaluation Centre of Quality and Technology in Health (e-mail: [pippa@ekapty.gr](mailto:pippa@ekapty.gr)) (May 2019-today)
4. Scientific councilorChroma Pharma Market Solutions (April 2019 -today)

### Education

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| *2010* | Degree of School of Pharmacy, University of Athens, Greece |
| *2011* | License of Pharmaceutical Profession, Ministry of Health, Athens, Greece |
| *2012* | MSc in Pharmaceutical Technology: “Industrial Pharmaceutics”, School of Pharmacy, University of Athens *Degree:* 8.95/10 |
| *July 2012-July 2015* | PhD Thesis: “Pharmaceutical Nanotechnology: Study on the morphology of advanced Drug Delivery nano Systems”. |
| *02/10/2016-31/08/2016* | Post-doctoral research: Scholarship from IKY (State Scholarships Foundation)Faculty of Pharmacy, Department of Pharmaceutical Technology,National and Kapodistrian University of Athens, Greece |
| *14/09/2016-13/12/2016* | Post-doctoralresearch:Scholarship «Séjours scientifiques de haut niveau» Embassy of France in Greece in the labolatory of Prof. Dr. Sébastien LecommandouxLaboratoire de Chimie des Polymères Organiques (LCPO), University of Bordeaux, France |
| *07/03/2017-07/03/2019* | Post-doctoral research: Scholarship of the Experimental –Research Center of ELPEN Pharmaceutical for the study entitled: “Smart Hydrogels as gastro-retentive drug delivery systems (SmartHyGas). |
| *03/12/2018 – 07/12/2018* | QMS Auditor/Lead Auditor ISO 9001:2015, Course number A18080 (Delivered by TUV Austria Hellas under license from Capable People) |
| *10/12/2018 – 14/12/2018* | Food Safety Management Systems auditor/lead auditor as per standard ISO 22000:2018 by TUV Austria Academy training course |

**Research Interests**

* Pharmaceutical Nanotechnology
* Preparation of liposomes, polymersomes, polyelectrolytes, nanoemulsions, dendrimers, micelles and mixed (chimeric)Drug Delivery nano Systems.
* Protocells and Multi-compartmentalized systems
* Hydrogels
* Drug loading and release studies
* Protein/Peptide loading and release studies
* Physicochemical and thermodynamic evaluation of nanoparticles
* Morphological characterization and Fractal Analysis of Drug Delivery nano Systems.
* Physical Pharmacy
* Pharmaceutical Compounding

***Techniques:*** Dynamic, Static and Electrophoretic Light Scattering techniques, Differential Scanning Calorimetry, Freeze-Drying, UV-Vis and Fluorescence spectroscopy, Confocal Microscopy, Transition Electron Microscopy (TEM), Atomic Force Microscopy (AFM).

**Participation in Research Programmes**

* **EURONANOMED II Joint Transnational Call for Proposals (2016) for Post-doctoral research: “EUROPEAN INNOVATIVE RESEARCH & TECHNOLOGICALDEVELOPMENT PROJECTS IN NANOMEDICINE”: “Nanotechnology based immunotherapy for glioblastoma”-NANOGLIO (***October 2018- February 2021)(Coordinator: Prof. Costas Demetzos)*
* **Functional Self-assembled Nanostructures from Block Copolymers and Proteins (NANOMACRO) (1/12/2012-25/9/2015) . (Coordinator: Dr. Stergios Pispas)**

**Participation in Programmes in collaboration with Greek Big Pharma**

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| *01/11/2018-30/06/2019* | Chief Operating Officer at IN TOUCH HEALTH (Doctor’s Formulas) |
| *01/01/2018-31/10/2018* | «Research and Development of final formulation of liposomal curcumin in sachets in laboratory scale.» Distinctive title: «Dosage forms of liposomal curcumin in sachets» in collaboration with IN TOUCH HEALTH (Doctor’s Formulas). (Coordinator: Prof. Costas Demetzos) |
| *05/04/2017-05/07/2017* | «Physicochemical studies for determining new and innovative claims for the products of Doctor’s Formulas». Distinctive title: «Physicochemical characterization and restatement of new claims for liposomal dosage formulations for the products of Doctor’s Formulas».in collaboration with IN TOUCH HEALTH (Doctor’s Formulas). |
| *01/09/2016-31/12/2016* | «Physical pharmacy studies of the cosmeceuticals of INTERMEDS.A.»Distinctive title: «interTECH:New claims for innovative products»in collaboration with INTERMED S.A. (Coordinator: Prof. Costas Demetzos) |
| *01/06/2015-25/07/2015* | «Restatement of labels and claims of the leaflet of the nutritional supplement “Sideral©”. Distinctive title: “Study on the technology of Fe supramolecular complexes” in collaboration with WINMEDICA S.A. (Coordinator: Prof. Costas Demetzos) |
| *01/04/2015-30/11/2015* | «Physicochemical study for determining new and innovative claims for the product “PREGNADERM extreme hydration body cream”». Distinctive title: “Application of the cerasomes technology on cosmetic products” in collaboration with INTERMED S.A. (Coordinator: Prof. Costas Demetzos) |
| *01/01/2014-31/07/2014* | «Development of generic liposomal Amphotericin B» in collaboration with DEMO S.A. (Coordinator: Prof. Costas Demetzos) |
| *01/09/2012-31/12/2012* | «Development of nanocarriers for antitumor peptide» in collaboration with ENORASIS (Coordinator: Prof. G. Sivolapenko) |

**Patents**

1. Process for the production of lipidic vehicles” EUROP/40, 18386004.8-1109, N. Naziris, **N. Pippa**, C. Demetzos, N. Fikioris.
2. **Granted patent GR1008332 (17-07-2014): “Nanocarriers formulations” N. Pippa, S. Pispas, C. Demetzos, G. Sivolapenko.**

**Teaching experience**

* **Participation in the Master of “Nanomedicine” (2018-today)**
* **Seminars in Master of “Industrial Pharmacy” (2016-today)**
* **Assistant in lab training of undergraduate students in the lab of Pharmaceutical Technology, Faculty of Pharmacy, University of Athens(Director: Prof. Costas Demetzos) (2012- 2018)**
* **Scientific Assistant in Continuing Professional Development (CPD) in training practice in galenic and cosmetic exercises (Lab. of Pharmaceutical Technology, University of Athens) (Supervisor: Prof. Costas Demetzos) (June 2013- June 2015)**

**Awards**

* **Participation in 68th Lindau Nobel Laureate Meeting from 24 to 29 June 2018 in Lindau, Germany**
* Seal of Excellence: The project proposal **740818, MIDESYVA, Mixed Delivery Systems as Vaccines Adjuvants,** Submitted under the Horizon 2020’s **Marie Skłodowska-Curie actions**call**H2020-MSCA-IF-2016** of **14 September 2016**by**Anastasia-Georgia Pippa**and**UNIVERSITY OF STRATHCLYDE,** following evaluation by an international panel of independent experts**was scored as a high-quality project proposalin a highly competitive evaluation process**
* ***International Association of Advanced Materials Scientist Medal (IAAM Scientist medal)*** for the year 2016” due to notable and outstanding contribution in the field of "Advanced Materials Science and Technology". Award ceremony of European Advanced Materials Congress 2016 on 24th August 2016 at Seaside Auditorium, M/S Mariella, Viking Line Cruise, Stockholm, Sweden.
* *Best poster presentation:* Applications of DSC and imaging techniques on the development of chimeric/ mixed nanosystems, N. Naziris, F. Saitta, **N. Pippa**, D. Stellas, V. Chrisostomou, S. Pispsas, M. Libera, M. Signorelli, C. Demetzos, D. Fessas, 13th Mediterranean Conference on Calorimetry and Thermal Analysis - Medicta 2017, 24th - 27th September 2017, Loano, Italy
* *Best Poster Presentation:*Design of multi-walledcarbon nanotube –liposome drug delivery platforms: a thermodynamic approach, **N. Pippa**, D. D. Chronopoulos, C. Demetzos, N. Tagmatarchis, Therma 2016, Therma 2016, 7th Panhellenic congress on thermal Analysis and Calorimetry, 27th -29th May 2014, Ioannina, Greece
* *Award in Excellence of Applied Pharmaceutical Technology and post-doctoral research dedicated to the memory ”KleonTsetis”, founder of the Pharmaceutical Industry “Uni-Pharma” 2014-2015.* This grant was awarded by Hellenic Pharmaceutical Society (HPS) for the period 2015-2016
* *Best Poster Presentation:*Study on the physicochemical characteristics of innovative liposomal systems: the role of thermoreponsive liposomes. M. Chountoulesi, A. Kyrili, **N. Pippa**, A. Meristoudi, S. Pispas, C. Demetzos, 17thPanhellenic Pharmaceutical Congress. 8th-11th October 2015, Athens, Greece
* *Award in Excellence of Applied Pharmaceutical Technology and one –year Scholarship dedicated to the memory of”KleonTsetis”, founder of the Pharmaceutical Industry “Uni-Pharma” 2014-2015.* This grant was awarded by the Hellenic Pharmaceutical Society (HPS) for the period 2014-2015.
* *Best Poster Presentation: “*Preparation, development and in vitro release evaluation of amphotericin B-loaded amphiphilic block copolymer vectors.”**N. Pippa**, M. Mariaki, S. Pispas, C. Demetzos, Convention of the Hellenic Society of Biometerials. 7th -8thNovemeber 2014, B.&M. Theocharakis Foundation for the Fine Arts and Music, Athens, Greece
* ***Best Oral Presentation:*“**The metastable phases as modulators of functionality in chimeric liposomes.” C. Demetzos,**N. Pippa**, S. Pispas, Therma 2014, 26th -28th September 2014, Larisa, Greece
* *Best Poster Presentation:*“Physicochemical characterization of liposomal systems and fractal analysis of their morphology.”**N. Pippa**, S. Pispas, C. Demetzos, 1stCongress of Pharmaceutical Sciences, 27th -30th April 2013. Athens, Greece

**Publications in peer-reviewed journals**

1. Incorporation of PEGylatedδ-decalactone into lipid bilayer: thermodynamic study and chimeric liposomes development. **N. Pippa**, A.Skouras, N. Naziris, F. Biondo, M.Tiboni, H. Katifelis, M.Gazouli, C.Demetzos, L. Casettari, Journal Liposome Research, 2019, In press
2. Vitamin C Fast Action tablets by Doctor’s Formulas Food supplements: Evaluation of matrix properties, M. Vlachou, A. Siamidi, **N.Pippa**, N. Fikioris, Advanced Science, Engineering and Medicine, 2019, In press
3. PEO-b-PCL grafted niosomes: The cooperativity of amphiphilic components and their properties in vitro and in vivo, **N.Pippa**, N. Naziris, D. Stellas, C. Massala, K. Zouliati, S. Pipas, C. Demetzos, A. Marcinkowski,A. Forys, B. Trzebicka, Colloids and Surfaces B: Biointerfaces; 2019, 117:338-345
4. Influence of lipid’s main transition temperature on the stability of chimeric liposomal systems. K. Zouliati, C. Massala, **N.Pippa**, N. Naziris, S. Pispas, C.Demetzos, Current Nanomedicine, In press
5. Innovative nanocarriers for ferrous gluconate: The role of polymeric multifunctional rectors. **N.Pippa**, N. Naziris, N.Fikioris, C. Demetzos, Advanced Science, Engineering and Medicine, 2019, 11(3):172-177.
6. Cubic lyotropic liquid crystals as drug delivery systems: Physicochemical and morphological studies. M. Chountoulesi, **N. Pippa**, S.Pispas, E.P. Chrysina, A. Forys, B. Trzebicka, C. Demetzos, Int. J. Pharm., 2018, 550(1-2):57-70
7. Studying the colloidal behavior of the chimeric liposomes by cryo-TEM, micro-differential scanning Calorimetry and high-resolution ultrasound spectroscopy, **N. Pippa**, D.R. Perinelli, S. Pispas, G. Bonacuccina, C. Demetzos, A. Forys, B. Trzebicka, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555:539-547.
8. Development and evaluation of stimuli-responsive chimeric nanostructures, N. Naziris, **N. Pippa**, D. Stellas, V. Chrysostomou, M. Libera, B.Trzebicka, S. Pispas, C, Demetzos, AAPS PharmSciTech, 2018, 19(7):2971-2989.
9. Marine sulfated polysaccharides as versatile polyelectrolytes forthe development of drug delivery nanoplatforms: Complexation of ulvan withlysozyme, L. Tziveleka, **N. Pippa**, P. Georgantena, E. Ioannou, C. Demetzos, V. Roussis, International Journal of Biological Macromolecules, 2018, 118:69-75.
10. Physicochemical Study of the Protein-Liposome Interactions: Influence of Liposome Composition and Concentration on Protein Binding, F. Papageorgiou, **N. Pippa**, N. Naziris, C. Demetzos, Journal of Liposome Research, 2018, In press.
11. pH-responsive polymeric nanoassemblies encapsulated into alginate beads: morphological characterization and swelling studies, **N. Pippa\***, T. Sentoukas, S. Pispas, C. Demetzos, A. Papalois, N.Bouropoulos, Journal of Polymer Research, 2018, 25:117.
12. Morphological diversity of blockcopolymer/lipid chimeric nanostructures,N. Naziris, **N. Pippa**, V. Chrysostomou, S. Pispas, C. Demetzos, M. Libera, B.Trzebicka, Journal of Nanoparticle Research, 2017, 19:347.
13. Pharmaceutical care: The driving force for patient-centered healthcare system. A. Siamidi, N. Naziris, **N. Pippa**, C. Demetzos, Pharmakeftiki, 2017, 29(2):34-41.
14. Liposomes in Polymersomes: Multicompartment system with temperature triggered release, A. Peyret, E. Ibarboure, **N. Pippa**, S. Lecommandoux, Langmuir, 2017, 33(28):7079-7085.
15. Physicochemical characteristics of liposomal formulation of Doctor’s Formulas’ food supplements in biorelevant dispersion media, **N. Pippa**, N. Fikioris, C. Demetzos, Advanced Science, Engineering and Medicine, 2017, 9(8):648-652.
16. Design and development of multi-walled carbon nanotube-liposome drug delivery platform, **N.Pippa**, D.D. Chronopoulosm D. Stellas, R. Fernandez-Pachero, R. Arenal, C. Demetzos, N. Tagmatarchis, Int. J. Pharmaceutics, 2017, 528(1-2):429-439.
17. The significance of drug to lipid ratio to the development of optimized liposomal formulation, M. Chountoulesi, N. Naziris, **N. Pippa**, C. Demetzos, J. Liposome Res, 2018, 28(3):249-258.
18. Innovative drug nanocarriers by incorporating thermoresponsive polymer in phospholipid bilayer, A. Tzani, N. Naziris, **N. Pippa**, S. Pispas, C. Demetzos, Global Drugs and Therapeutics, 2017, 2(6):1-5.
19. Advances and perspectives in cancer nanotherapy. The added value of nanocarriers. C. Demetzos, **N.Pippa**, S. Pispas, Current Nanomedicine, 2017, 7(3):170-190.
20. Magnetic nanoparticles coated with polyarabic acid demonstrate enhanced drug delivery and imaging properties for cancertheranostic applications, M.Patitsa, K .Karathanou, Z.Kanaki, **N. Pippa**, C.Demetzos, D.A. Verganelakis, Z.Cournia,A.Klinakis, Scientific Reports, 2017, 7(1):775
21. Lipid bilayers incorporated violacein: Differential Scanning Calorimetry as analytical tool for preformulation studies, P. Loukopoulos, **N. Pippa**, C. Demetzos, A. Kanavouras, Advanced Science, Engineering and Medicine, 2017, 9(3):212-220.
22. Lysozyme complexes with thermo-and pH-responsive PNIPAM-b-PAA block copolymers, **N Pippa**, A. Meristoudi, S. Pispas, C. Demetzos, Journal of Nanoparticle Research, 2017, 19(2):76.
23. Design and development of pH sensitive liposomes by evaluating the thermotropic behavior of their chimeric bilayers. A. Kyrili, M. Chountoulesi, **N. Pippa**, A. Meristoudi, S. Pispas, C. Demetzos, Journal of Thermal Analysis and Calorimetry, 2017, 127(2):1381-1392.
24. Pharmaceutical Compounding: Recent Advances, lessons learned and Future Perspectives, A. Siamidi, **N. Pippa**, C. Demetzos, Global Drugs and Therapeutics, 2017, 2(2):1-3.
25. Evaluation of the physicochemical characteristics of liposomal formulations of Doctor’s Formulas food supplements, **N. Pippa**, N. Fikioris, C. Demetzos, Advanced Science, Engineering and Medicine, 2017, 9(2):148-154.
26. Mixed lipid|polymer nanostructures: from advanced materials to drug delivery systems. **N. Pippa\***, A. Skandalis, S.Pipsas, C. Demetzos, M. Libera, A. Marcinkowski, B. Trzebicka, Advanced Materials Letters, 2017, 8(4):428-434.
27. Chronobiotic hormone melatonin: comparative in vitro release studies from matrix tablets and liposomal formulation. A. Zampakola, A. Siamidi, **N. Pippa**, C. Demetzos, M. Vlachou, Letters in Drug Design and Discovery, 2017, 14(4):476-480.
28. Chimeric lipid/block copolymer nanovesicles: physicochemical and bio-compatibility evaluation, **N. Pippa**, D. Stellas, A. Skandalis, S. Pispas, C.Demetzos, M. Libera, A. Marcinkowski, B. Trzebicka, European Journal of Pharmaceutics and Biopharmaceutics, 2016, 107: 295-309
29. Stimuli-responsive survey of Hellenic Pharmaceutical Society to detect learning attitudes abd needs of Greek pharmacists towards Continuing Professional Development (CPD). C. Demetzos, A.Tsantili, E. Skaltsa, A. Siamidi, G. Koutepas, **N. Pippa**, K. Gardikis, I. Chinou, O. Tzakou, S. Hantziantoniou, K. Ghirtis. European Journal of Pharmaceutical Sciences, 2016, 93:I-IV
30. Stimuli-responsive drug delivery nanosystems: from bench to clinic, N. Naziris, **N. Pippa**, S. Pispas, C. Demetzos, Current Nanomedicine, 2016, 6(3):166-185.
31. Preparation and physicochemical characterization of polyelectrolyte complexes incorporating antitumor peptide. **N.Pippa**, G. Mountrichas, S. Pispas, G. Sivolapenko, Journal of Nanoscience and Nanotechnology, 2017, 17(7):4901-4906.
32. Design and development of pH-responsive HSPC:C12H25-PAA chimeric liposomes. N. Naziris, **N. Pippa**, A. Meristoudi, S. Pispas, C. Demetzos, Journal of Liposome Research, 2017, 27(2):108-117.
33. Innovative Excipients and Formulation Platforms in Cosmetic Product Series for Acne (ACNOFIX®): The Physiochemical Characteristics of Cosmeceutical Vehicle, N. Pippa, I. Tseti, C. Demetzos, Advanced Science, Engineering and Medicine, 2016, 8(4):284-289
34. Polymer self-assembled nanostructures as innovative drug nanocarrier platforms. **N. Pippa**, S. Pispas, C. Demetzos, Curr. Pharm. Des., 2016, 22(19):2788-95
35. Efficacy of a new heparan sulfate mimetic dressing in the healing of foot and lower-extremity ulcerations in type 2 diabetes: A case series. N. Papanas, C. Demetzos, **N. Pippa**, E.Maltezos, N. Tentolouris, Int. J. Low Extrem. Wounds., 2016, 15(1):63-7
36. The modulation of physicochemical characterization of innovative liposomal platforms: The role of the grafted thermosensitivepolymers.M. Chountoulesi, A. Kyrili, **N. Pippa**, A. Meristoudi, S. Pispas, C. Demetzos, Pharmaceutical Development and Technology, 2017, 22(3):330-335.
37. A dual stimuli-responsive polymer into phospholipid membranes: a thermotropic approach. I. Kolman, **N. Pippa**, A. Meristoudi, S. Pispas, C. Demetzos. Journal of Thermal Analysis and Calorimetry, 2016,123(3):2257-2271.
38. Preparation and physicochemical characterization of liposomes incorporating flavonoids (quercetib, rutin and genistein). E.G.Angelopoulou, N.Giatagana, S.Xiroudaki, **N.Pippa**, C.Demetzos, Pharmakeftiki,2016, 28(2):92-100.
39. Cerasomes as innovative excipients in cosmetic product: “Pregnaderm extreme hydration body cream”: a physicochemical study. **N. Pippa**, G.Mountrichas, I. Tseti, C. Demetzos, Advanced Science, Engineering and Medicine, 2016, 8(1):26-30.
40. Calorimetric study on pH-responsive block copolymer grafted lipid bilayers: Rational design and development of liposomes. **N. Pippa**, M. Chountoulesi, A. Kyrili, A. Meristoudi, S. Pispas, C. Demetzos, Journal of Liposome Research, 2016, 26(3):211-220
41. Delivery nanoparticle platform of liposomes – incorporated dendrimers: physicochemical, and thermotropic characterization, **N. Pippa**, S. Pispas, C. Demetzos, Advanced Science, Engineering and Medicine, 2015, 7(9):805-810.
42. Complexation of cationic-neutral block polyelectrolyte with insulin and in vitro release studies. **N. Pippa**, M. Karayianni, S.Pispas, C.Demetzos, Int. J. Pharm., 2015, 491(1-2):136-143.
43. Insulin/Poly(ethylene glycol)-*block*-poly(L-lysine) Complexes: Physicochemical Properties and Protein Encapsulation. **N. Pippa**, R. Kalinova, I. Dimitrov, S.Pispas, C.Demetzos, J Phys Chem B, 2015, 119(22):6813-9
44. Temperature-dependent drug release from DPPC:C12H25-PNIPAM-COOH liposomes: control of the drug loading / release by modulation of the nanocarriers' components.**N. Pippa**, A. Meristoudi, S. Pispas, C. Demetzos, International Journal of Pharmaceutics, 2015,485(1-2):374-382
45. Fractal geometry as a new approach for proving nanosimilarity: a reflection note. C. Demetzos, **N. Pippa**, International Journal of Pharmaceutics, 483(1-2):1-5, (impact factor=3.994)
46. The contribution of “omics” to the development of new medicines. **N. Pippa**, C. Demetzos, Pharmakeftiki, 2014, 26, IV, 128-134
47. Antobody-Drug conjugates: a mini-review. The synopsis of two approved drugs. A. Papachristos, **N. Pippa**, C. Demetzos, G. Sivolapenko, Drug Delivery, 2016,23(5):1662-1666
48. The metastable phases as modulators of biophysical behavior of liposomal membranes: The role of biomolecular sculpture of polymeric guest. **N. Pippa**, S. Pispas, C. Demetzos, Journal of Thermal Analysis and Calorimetry, 2015, 120:937-945.
49. The alliance between nanotechnology, biosciences and regulatory agencies promotes innovative medicines. The signaling pathways from Greece. C. Demetzos, **N. Pippa**, Pharakeftiki, 2014, 26:57-65.
50. Liposomal forms of anticancer agents beyond anthracyclines: Present and Future perspectives. A. Papachristos, **N. Pippa**, K. Ioannidis, G. Sivolapenko, C. Demetzos, Journal of Liposome Research, 2015,25(2):166-73.
51. Fractal analysis as a complementary approach to predict the stability of drug delivery nano systems in aqueous and biological media: A regulatory proposal or a dream? C. Demetzos,  **N. Pippa**, International Journal of Pharmaceutics, 2014, 473(1-2):213-218
52. Preparation, development and in vitro release evaluation of Amphotericin B-loaded amphiphilic block copolymer vectors. **N. Pippa**, M. Mariaki, S. Pispas, C. Demetzos, International Journal of Pharmaceutics, 2014, 473, 80-86.
53. The interplay between the rate of the release from polymer grafted liposomes and their fractal morphology. **N. Pippa**, A. Dokoumetzidis, S. Pispas, C. Demetzos, International Journal of Pharmaceutics, 2014, 465, 63-69.
54. The imaging and the fractal metrology of chimeric liposomal Drug Delivery nano Systems: The role of macromolecular architecture of polymeric guest. **N. Pippa**, S. Pispas, C. Demetzos, Journal of Liposome Research, 2014, 24(3):223-9.
55. Gradient block copolymer structures as drug nanocarriers. **N. Pippa**, E. Kaditi, S. Pispas, C. Demetzos, Advanced Science, Engineering and Medicine, 2014, 6(6):642-648.
56. PEO-b-PCL grafted DPPC liposomes: physicochemical characterization and stability studies of novel bio-inspired advanced Drug Delivery nano Systems (aDDnSs). **N. Pippa**, E. Deli, E. Mentzali, S. Pispas, C. Demetzos, Journal of Nanoscience and Nanotechnology, 2014, 14, 5676-5681.
57. The physicochemical/thermodynamic balance of advanced drug liposomal delivery systems. **N. Pippa**, K. Gardikis, S. Pispas, C. Demetzos, Journal of Thermal Analysis and Calorimetry, 2014,116(1): 99-105.
58. Advanced Drug Delivery nano Systems (aDDnSs): A Mini-Review. C. Demetzos, **N. Pippa**, Drug Delivery, 2014, 21(4):250-257
59. Preparation of liposomal nanoparticles incorporating TBH. *In vitro* drug release studies. C.Koutsoulas, **N. Pippa**, C.Demetzos, M.Zabka, Journal of Nanoscience and Nanotechnology, 2014, 14(6): 4529-4533.
60. Advanced nanocarriers for an antitumor peptide. **N. Pippa**, S. Pispas, C. Demetzos, G. Sivolapenko, J Nanopart Res, 2013, 15(11),2062.
61. The thermotropic behavior of chimeric liposomes as the mechanistic explanation of drug release. N. Pippa, S. Pispas, K. Gardikis, C. Demetzos, Pharakeftiki,2013, 25(3): 94-99.
62. On the ubiquitous presence of fractals and fractal concepts in Pharmaceutical Sciences: A Review. **N. Pippa**, A. Dokoumetzidis, C. Demetzos, P. Macheras, International Journal of Pharmaceutics, 2013, 456(2):340-352.
63. Advanced therapies: New guidelines and the approval process   
    C. Demetzos, **N. Pippa**, Y. Tountas, Pharakeftiki, 2013, 25, II, 49-54.
64. DPPC/poly(2-methyl-2-oxazoline)-grad-poly(2-phenyl-2-oxazoline) chimeric nanostructures as potential drug nanocarriers. **Ν.Pippa**, Ε. Kaditi, S. Pispas, C. Demetzos, J. Nanopart. Res. 2013. 15,1685.
65. The shape/morphology balance: A study of stealth liposomes via fractal analysis and drug encapsulation.**Ν.Pippa**, F. Psarommati, S. Pispas, C. Demetzos, Pharmaceutical Research, 2013, 30(9):2385-95.
66. The role of ζ-potential on the stability of nanocolloidal systems. C. Koutsoulas, **N. Pippa**, C.Demetzos, M. Zabka, Pharmakeftiki, 24 IV, 106-111, 2012
67. Incorporation of dimethoxycurcumin into charged liposomes and the formation kinetics of fractal aggregates of uncharged vectors. M. Hadjidemetriou, **N. Pippa**, S. Pispas, C. Demetzos, Journal of Liposome Research, 2013, 23(2):94-100.
68. PEO-b-PCL/DPPC chimeric nanocarriers: self-assembly aspects in aqueous and biological media and drug incorporation. **Ν.Pippa**, Ε. Kaditi, S. Pispas, C. Demetzos Soft Matter, 2013, 9, 4073-4082.
69. DPPC:MPOx chimeric advanced Drug Delivery nanosystems (chi-aDDnSs): physicochemical and structural characterization, stability and drug release studies**.Ν.Pippa**, M. Merkouraki, S. Pispas, C. Demetzos, International Journal of Pharmaceutics, 2013, 450(1-2),1-10.
70. Fractal analysis of liposomal aggregation, **N. Pippa**, C. Demetzos, Pharakeutiki, 2012, 24,III,57-62.
71. The delineation of the morphology of charged liposomal vectors via a fractal analysis in aqueous and biological media: physicochemical and self-assembly studies, **N. Pippa**, S. Pispas, C. Demetzos, International Journal of Pharmaceutics, 2012, 437, 264-274.
72. The fractal hologram and elucidation of the structure of liposomal carriers in aqueous and biological media. **Ν. Pippa,** S.Pispas, C. Demetzos, International Journal of Pharmaceutics, 2012, 430(1-2):65-73.
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5. HSPC:C12H25-PAA innovative nanocarriers for pH-responsive drug delivery, N. Naziris, **N. Pippa,** A. Meristoudi, S. Pispas, C. Demetzos,Therma 2016, 7th Panhellenic congress on thermal Analysis and Calorimetry, 27th -29th May 2014, Ioannina, Greece (*Poster presentation).*
6. Temperature-dependent drug release from chimeric DPPC:C12H25-PNIPAM-COOH liposomes. **N. Pippa**, A. Meristoudi, S. Pispas, C. Demetzos, 10th Anniversary conference of the Hellenic Society of Biomaterials, 26th -28th November 2015, National Hellenic Research Foundation (NHRF), Athens, Greece *(Oral presentation).*
7. From calorimetric results of pH-responsive block copolymer grafted lipid bilayers to rational design and investigation of pH-responsive liposomes.A. Kyrili, M. Chountoulesi, **N. Pippa**, A. Meristoudi, S. Pispas,C.Demetzos, 10th Anniversary conference of the Hellenic Society of Biomaterials, 26th -28th November 2015, National Hellenic Research Foundation (NHRF), Athens, Greece (*Poster presentation).*
8. Temperature-dependent drug release from DPPC:PNIPAM chimeric liposomes. **N. Pippa**, A. Meristoudi, N. Naziris, C. Demetzos, S. Pispas, 10th Hellenic Polymer Society Conference with international participation. 4th-6thDecember, 2014, Patras, Greece
9. Development of stealth cationic amphiphilic block polyelectrolyte complexes incorporating antitumor peptide. **N. Pippa**, S. Pispas, C. Demetzos, G. Sivolapenko. 10th Hellenic Polymer Society Conference with international participation. 4th-6thDecember, 2014, Patras, Greece
10. Complexation of cationic amphiphilic block polyelectrolyte aggregated with insulin. In vitro release studies. **N. Pippa**, S. Pispas, C. Demetzos, Convention of the Hellenic Society of Biometerials. 7th -8thNovemeber 2014, B.&M. Theocharakis Foundation for the Fine Arts and Music, Athens, Greece *(Oral Presentation)*
11. Preparation, development and in vitro release evaluation of amphotericin B-loaded amphiphilic block copolymer vectors. **N. Pippa**, M. Mariaki, S. Pispas, C. Demetzos, Convention of the Hellenic Society of Biometerials. 7th -8thNovemeber 2014, B.&M. Theocharakis Foundation for the Fine Arts and Music, Athens, Greece *(Poster Presentation)*
12. DPPC/poly(2-methyl-2-oxazoline)-grad-poly(2-phenyl-2-oxazoline) chimeric nanostructures as drug delivery systems. **N. Pippa**, S. Pispas, C. Demetzos, Convention of the Hellenic Society of Biometerials. 7th -8thNovemeber 2014, B.&M. Theocharakis Foundation for the Fine Arts and Music, Athens, Greece*(Poster Presentation)*
13. The metastable phases as modulators of functionality in chimeric liposomes. C. Demetzos,**N. Pippa**, S. Pispas, Therma 2014, 26th -28th September 2014, Larisa, Greece *(Oral Presentation)*
14. The thermotropic behavior of DPPC:PAMAM G-4 chimeric liposomes. **N. Pippa**, S. Pispas, C. Demetzos, Therma 2014, 26th -28th September 2014, Larisa, Greece *(Poster Presentation)*
15. PEO-b-PCL grafted DPPC liposomes: self-assembly, stability and fractal analysis of the nanostructures, **Ν. Pippa,** S.Pispas, C. Demetzos, 15th Hellenic Symposium on Medicinal Chemistry, Athens, 25-27 May, 2012 *(Poster)*

**Continuing Professional Development**

# Cancer and Immunotherapy 2017: progresses and challenges. 27-28 November 2017, Espace Saint Martin, Paris, France

# Workshop Protocells, Artificial cells, Minimal Cells: From structure to Functions, 5 October 2016,InstituteEuropéen de Chimie et Biologie, University of Bordeaux, Bordeaux, France

# SafeSciMET course 2.3: “Pharmaco-/Toxicokinetics and Pharmaco-/Toxicodynamycis” 23.02.2015 – 26.02.2015 (Total of 38 hours). This course is given at Uppsala University by academic teachers and experienced scientistits from pharmaceutical industry. It is a SafeSciMET course in the framework of Innovative Medicines Initiative (IMI) Education and Training Programme, intended for participants from industry, Authorities and Academia. Courseleader: Prof. Margareta Hammarlund-Udenaes.(3 ECTS)

# The Onassis Foundation: Science Lecture Series.The 2015 Lectures in Biology: Stem Cells: From basic biology to translational research. Heraklion, Crete, July 6-10th , 2015

# The Onassis Foundation: Science Lecture Series.The 2014 Lectures in Chemistry and Biology: Molecular Conformational Fluctuations: Origins of Biological Specificity and Applications in Pharmacochemistry, Heraklion, Crete, August 25-29th , 2014.

**Membership of scientific societies**

* Member of Executive Committee of Hellenic Society of Biomaterials
* Member of Executive Committee of Hellenic Pharmaceutical Society (H.P.S.)
* Member of Hellenic Society of Thermal Analysis
* Member of European Federation of Pharmaceutical Sciences (EUFEPS)
* Member of Hellenic Society of Cosmetology
* Member of Hellenic Society of Medicinal Chemistry