CURRICULUM VITAE

NAME	Panagiotis Marakos
DATE OF BIRTH	26-6-1960
PLACE OF BIRTH	Athens, Greece
NATIONALITY	Greek
MARITAL STATUS	Married
MILITARY SERVICE	Feb. 1987-Nov. 1988.
PROFESSIONAL ADDRESS	University of Athens, Faculty of Pharmacy, Department of Pharmaceutical Chemistry, Panepistimiopolis-Zografou 15771, Athens, Greece Tel.:30(210) 7274830, Fax:30(210) 7274747
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EDUCATION

- PhD in Pharmaceutical Chemistry. Athens University, Greece, 1987. My thesis entitled "Design and synthesis of some new Pyrethroids" dealt with the synthesis, identification and application of some substituted cyclopropanecarboxylic acid esters, oxime ethers and carbamic acid esters.
- B.S in Pharmacy. Department of Pharmacy, Athens University, Greece, 1982.
- High School Certificate. 2nd Athens High School, Greece, 1978.

PROFESSIONAL EXPERIENCE

- On January 2009 I was elected Professor of the University of Athens, Department of Pharmacy, Division of Pharmaceutical Chemistry
- On May 2003 I was elected Acossiate Professor of the University of Athens, Department of Pharmacy, Division of Pharmaceutical Chemistry
- On Nov. 1994 I was elected Assistant Professor of the University of Athens, Department of Pharmacy, Division of Pharmaceutical Chemistry.
- On Dec. 1989 I was elected Lecturer of the University of Athens, Department of Pharmacy, Division of Pharmaceutical Chemistry.
- From Dec. 1988 to May 1990 I was Control Supervisor of the Cosmetics Industry "Dimaco Ltd", Athens, Greece.
- From Sep. 1987 to Dec. 1988 I served as a pharmacist in the Athens Military Hospital.

TEACHING EXPERIENCE

- 2002-2017: Supervisor of 4 PhD students.
- 1998-2017: Supervisor of 12 MsC students.
- 2009-today I teach the "Pharmaceutical Chemistry II" courses, to B.S 3rd year students.
- 1995-today I teach the courses of “Advanced Medicinal Chemistry” to the 1st year graduate students of the Pharmacy Department Graduate School.
- 1991-today I teach the "Pharmaceutical Chemistry IV" courses, to B.S 4th year students.
- 1991-today I am involved with the teaching of B.S 3rd year students in the Pharmaceutical Chemistry practical sessions,
- 1985-1987 I was awarded a University scholarship as teaching assistant.

FOREIGN LANGUAGES

- English, French.

RECENT RESEARCH PROJECTS

- Development of new molecules and investigation of their mode of action as potential selective AP-1 inhibitors. PENED (2000-2001). Budget: 117.400 Euros. Coordinator of the Pharmaceutical Chemistry Team
- Development of new chelators and pharmacological evaluation as potential agents against Alzheimer's disease. YPER (1999-2001). Budget: 52.800 Euros. Participating scientist.
- New selective estrogen receptor modulators: Synthesis and biological evaluation. EUREKA. Budget: 349.830 €. Participating scientist.
- Proccess development for an integrated olive oil mill waste management recovering natural antioxidants and produsing organic fertilizer. LIFE 00 ENV/gr/000671 (2001-2004). Budget: 1.217.000 €. Participating scientist.
- Synthesis and pharmacological study og new anticancer agents. Research project with the company SERVIER (France) (1996-2003). Budget: 167.300 €. Participating scientist.
- Development and application of absorption resins technology for the manipulation of agricultural wastes PYTHAGORAS II (2004-2007). Budget: 50.000 €. Coordinator
- Synthesis and pharmacological evaluation of new molecules. Research Program with the company Johnson & Johnson Pharmaceutical Research & Development, A Division of Janssen Pharmaceutica N.V. (2002-2007). Budget: 245.000 €. Coordinator.
- The design, synthesis and pharmacological evaluation of new molecules as potential CDK inhibitors PENED 2003. Budget: 235.000 €. Coordinator.
- Design, synthesis and pharmacological evaluation of new aminosubstituted benzenexanthones. University of Athens Special Research Account 2005. Budget: 1.300 €. Coordinator.
- Design, synthesis and pharmacological evaluation of new aminoxanthones. University of Athens Special Research Account 2006. Budget: 1.000 €. Coordinator.
- Development of novel Angiogenesis-Modulating Pharmaceuticals by screening of natural compounds and synthetic analogues. "Cooperation: Large Scale Cooperation Projects" (2010). Budget: 1.870.000 €.
- Integrating the emerging research potential of the University of Athens Cancer Research Group in the European research area. FP-7 REGPOT-2010-11. Budget: 2.774.106 €.

MONOGRAPHS

1. "The design and synthesis of new pyrethroids". PhD thesis, Athens, 1987.
2. "Steroid hormones": In "Courses in Medicinal Chemistry IV" by E. Kostakis, G. Fytas, P. Marakos.
3. "Anticancer drugs": In "Courses in Advanced Medicinal Chemistry II", by P. Marakos, N. Pouli, S. Papakonstantinou-Garoufalias.
4. "Pharmaceutical Chemistry II" by N. Pouli, P. Marakos
5. "Pharmaceutical Chemistry IV" by N. Pouli, P. Marakos

PUBLICATIONS

1. Synthèse de quelques derivés aminés isostères du benzomorphane. N. Kolocouris, P. Marakos. *Chimika Chronika, New Series*. (1990), 19 105-109.
2. Synthèse et étude pharmacologique de la α-phényl-1-adamantanemethanamine. P. Marakos, G. B. Foscolos, G. Fytas, N. Kolocouris, A. Vamvakides. *Ann. Pharm. Fr.*, (1991), 49 214-221.
3. Synthesis, antifungal, antibacterial and antiviral effects of some adamantaneketoxime ethers. A. Papadaki-Valiraki, S. Papakonstantinou-Garoufalias, P. Marakos, A.

Chytyroglou-Ladas, M. Hosoya, J. Balzarini, E. De Clercq. *Farmaco*, (1993) 48, 1091-1102.

4. 3-Cyclopentyl-1-adamantanamines and adamantanemethanamines. Antiviral activity evaluation and convultion studies. G. Fytas, P. Marakos, N. Kolocouris, G. B. Foscolos, N. Pouli, A. Vamvakides, S. Ikeda, E. De Clercq. *Farmaco*, (1994) 49, 641-647.
5. Synthesis and antiviral activity evaluation of some aminoadamantane derivatives. N. Kolocouris, G. B. Foscolos, A. Kolocouris, P. Marakos, N. Pouli, G. Fytas, S. Ikeda, E. De Clercq. *J. Med. Chem.*, (1994) 37, 2896-2902.
6. Synthèse et étude pharmacologique des adamantylbenzènepropanamines et propénamines. N. Pouli, G. Fytas, G. B. Foscolos, N. Kolokouris, P. Marakos, A. Vamvakides. *Ann. Pharm. Fr.*, (1995) 53, 163-169.
7. Synthesis and pharmacological study of some new β-(dialkylaminomethyl)-γ-butyrolactones and their tetrahydrofuran analogues. G. B. Foscolos, N. Kolocouris, G. Fytas, P. Marakos, N. Pouli, A. Vamvakides. *Farmaco*, (1996) 51, 19-26.
8. Synthesis and biological activity of 4'-azido and 4'-trifluoroacetamido-3'-chloro-4'deoxy-3'-deaminodaunorubicin. N. Aligiannis, N. Pouli, P. Marakos, A. -L. Skaltsounis, S. Leonce, A. Pierre, G. Atassi. *Bioorg. Med Chem. Let.* (1996) 6, 2473-2476.
9. A new and facile method for the preparation of 3-substituted pyrazolo[3,4-*c*]pyridines. P. Marakos, N. Pouli, D. Wise, L.B. Townsend. *Synlett*, (1997) 5, 561-562.
10. Synthesis, lipophilicity and antimicrobial properties of some O-(5-aryl-1,2,4-triazol-3-ylethane)benzaldoximes and O-(5-aryl-1,3,4-oxadiazol-2-ylethane)benzaldoximes. S. Papakonstantinou-Garoufalias, P. Marakos, A. Tsantili-Kakoulidou, A. Chytyroglou-Ladas. *Die Pharmazie*, (1998) 53, 300-302.
11. Antisense/ Antigene Oligonucleotides: A new class of potential drugs. R. Tenta, P. Marakos, N. Pouli. *Pharmakeftiki* (1998) *11*, 33-47.
12. Design, synthesis and biological activity of 7-*O*-(4-*O*-acetyl-3-iodo-2,3,6-trideoxy-α-L-*arabino*-hexopyranosyl)daunomycinone and 7-*O*-(3-chloro-2,3,6-trideoxy-4-*O*-propanoyl-α-L-*lyxo*-hexopyranosyl)daunomycinone. N. Aligiannis, N. Pouli, P. Marakos, S. Mitaku, A.-L. Skaltsounis, S. Leonce, A. Pierre, Gh. Atassi. *Chem. Pharm. Bull.*, (2000), 48, 150-152.
13. Synthesis and conformational analysis of some new pyrano[2,3-*c*]xanthen-7-one and pyrano[3,2-*b*]xanthen-6-one derivatives with cytotoxic activity. K. Ghirtis, N. Pouli, P. Marakos, A.-L. Skaltsounis, S. Leonce, A. Pierre, Gh. Atassi. *Heterocycles*, (2000), 53, 93-106.
14. Synthesis and cytotoxic activity of 2-dialkylaminoethylamino substituted xanthenone and thioxanthenone derivatives. I. Kostakis, K. Ghirtis, N. Pouli, P. Marakos, A.-L. Skaltsounis, S. Leonce, D. H. Caignard, G. Atassi. *Farmaco*, (2000), 55, 455-460.
15. Design and Synthesis of Some New Pyranoxanthenones with Cytotoxic Activity. K. Ghirtis, N. Pouli, P. Marakos, A.-L. Skaltsounis, S. Leonce, G. Atassi, D. H. Caignard. *J. Heterocycl. Chem.*, (2001), 38, 147-152.
16 Synthesis, Cytotoxic Activity, NMR Study and Stereochemical Effects of Some New Pyrano[3,2-*b*]thioxanthen-6-ones and Pyrano[2,3-*c*]thioxanthen-7-ones. I.K. Kostakis, N. Pouli, P. Marakos, E. Mikros, A.-L. Skaltsounis, S. Leonce, G. Atassi, P. Renard. *Bioorg. Med. Chem.*, (2001) 9, 2793-2802.
17. Antileukemic activity of synthetic daunomycinone derivatives bearing modifications in the glycosidic moiety. E.M. Perchellet, B.J. Sperfslage, C.J. McIlvain, N. Aligiannis, N. Pouli, P. Marakos, A.-L. Skaltsounis, J.P. Perchellet, *Anticancer Res.* (2001) 21, 3957-3967.

18. Preparation and cytotoxic activity of some new rhodomycin derivatives bearing modifications in the sugar moiety. Aligiannis, N., Pouli, N., Marakos, P., Skaltsounis, A.-L., Florent, J.C., Perchellet, E.M., Sperfslage, B.J., McIlvain, C.J., Perchellet, J.P. *J. Antibiot.*, (2002) 55, 181-190.
19. Synthesis and antiviral activity evaluation of some new 6-substituted 3-(1-adamantyl)-1,2,4-triazolo[3,4-*b*][1,3,4]thiadiazoles. M. Kritsanida, A. Mouroutsou, P. Marakos, N. Pouli, S. Papakonstantinou-Garoufalias, C. Pannecouque, M. Witvrouw, E. De Clercq. *Farmaco*, (2002) 57, 253-257.

20. Synthesis and antifungal and antioxidant properties of some new 5-substituted-4-amino(or aryl)-3-mercapto-4(*H*)-1,2,4-triazoles. P. Marakos, S. Papakonstantinou-Garoufalias, E. Tani, P.N. Kourounakis, G. Athanasiou, A. Chytyroglou-Ladas. *Arzneim.-Forsch./Drug Res.*,(2002) 52, 572-577.

21. Synthesis antimicrobial and antifungal activity of some new 3-substituted derivatives of 4-(2,4-dichlorophenyl)-5-adamantyl)-1*H*-1,2,4-triazole. S. Papakonstantinou-Garoufalias, N. Pouli, P. Marakos, A. Chytyroglou-Ladas. *Farmaco*, (2002) 57, 973-977.

22. Design, synthesis and antiproliferative activity of some new pyrazole fuzed aminoderivatives of the pyranoxanthenone, pyranothioxanthenone and pyranoacridone ring systems: a new class of cytotoxic agents. I. K. Kostakis, P. Magiatis, N. Pouli, P. Marakos, A.-L. Skaltsounis, H. Pratsinis, S. Leonce, A. Pierre. *J. Med. Chem.*, (2002) 45, 2599-2609.

23. Design and synthesis of some new pyranoxanthenone aminoderivatives with cytotoxic activity. G. Kolokythas, I. K. Kostakis, N. Pouli, P. Marakos, A.-L. Skaltsounis, H. Pratsinis. *Bioorg. Med. Chem. Let.*, (2002) 12, 1443-1446.

24. The synthesis of a new pyrazolo[3,4-*c*]pyridine C-nucleoside, structurally releted to formycin B. V.N. Kourafalos, P. Marakos, N. Pouli, L.B. Townsend *Synlett* (2002) 9, 1479-1482.

25. Synthesis and cytotoxic activity of a new potent daunomycinone derivative. N. Aligiannis, N. Pouli, P. Marakos, A.-L. Skaltsounis, H. Pratsinis. *Bioorg. Med. Chem. Let.*, (2002) 12, 3505-3507.
26. Synthesis of 7-aminopyrazolo[3,4-*c*]pyridine as a probe for the preparation of compounds of pharmacological interest. V.N. Kourafalos, P. Marakos, N. Pouli, A. Terzis, L.B. Townsend . *Heterocycles*, (2002) 57, 2335-2344.
27. Synthesis, conformational analysis and free radical scavenging activity of some new spiropyranoquinolinones. V. Panteleon, P. Marakos, N. Pouli, E. Mikros, I. Andreadou. *Chem Pharm. Bull.* (2003), 51, 522-529.
28. Structural Characteristics of Some Triazole Containing Mercaptoacetic Acid Hydrazides. P. Marakos, N. Pouli, S. Papakonstantinou-Garoufalias, E. Mikros. *J. Mol. Struct.*, (2003), 213-221.
29. Interactions of a series of novel spiropyranocoumarin derivatives with reactive oxygen species. V. Panteleon, P. Marakos, N. Pouli, E. Mikros, I. Andreadou. *J. Pharm. Pharmacol.* (2003), 55, 1029-1039.
30. The synthesis of 4-deazaformycin A. V.N. Kourafalos, P. Marakos, N. Pouli, L.B. Townsend A. *J. Org Chem.* (2003), 68, 6466-6469.
31. Synthesis and cytotoxic activity of some new azapyranoxanthenone aminoderivatives. G. Kolokythas, I. K. Kostakis, N. Pouli, P. Marakos, D. Kletsas, H. Pratsinis. *Bioorg. Med. Chem.*, (2003), 11, 4591-4598.

32. Design, Synthesis and Antiproliferative Activity of Some Novel Aminosubstituted Xanthenones, Able to Overcome Multidrug Resistance Towards MES-SA/Dx5 Cells. I. K. Kostakis, R. Tenta, N. Pouli, P. Marakos, A.-L. Skaltsounis, H. Pratsinis, D. Kletsas. *Bioorg. Med. Chem.Let.*, (2005), 15, 5057-5060.
33. Design, Synthesis and Antiproliferative Activity of Some New Azapyranoxanthenone Aminoderivatives. G. Kolokythas, N. Pouli, P. Marakos, H. Pratsinis, D. Kletsas *Eur. J. Med. Chem.* (2006), 41, 71-79.
34. Design and Synthesis of Novel Amino Substituted Xanthenones and Benzo[*b*]xanthenones: Evaluation of their Antiproliferative Activity and their Ability to Overcome Multidrug Resistance Toward MES-SA/Dx5 Cells. I.K. Kostakis, N. Pouli, P. Marakos, A.-L. Skaltsounis, H. Pratsinis, D. Kletsas *Bioorg. Med. Chem.*, (2006), 14, 2910-2934.
35. 1-Ethyl-1*H*-3-nitrobenzopyrane[4,3,2-*cd*]isoindole: A novel heterocyclic ring system bearing an unusually labile deuterium-exchangeable aromatic proton. C. Hadjipavlou, I. K. Kostakis, N. Pouli, P. Marakos, E. Mikros *Tetrahedron Lett.* (2006), 47, 3681-3684.
36. Synthesis and Antiproliferative Activity of Substituted Benzopyranoisoindoles: A New Class of Cytotoxic Compounds. C. Hadjipavlou, I. K. Kostakis, N. Pouli, P. Marakos, H. Pratsinis, D. Kletsas *Bioorg. Med. Chem.Let.*, (2006), 16, 4822-4825.
37. Synthesis and tautomerism study of 7-substituted pyrazolo[3,4-*c*]pyridines. V. N. Kourafalos, P. Marakos, E. Mikros, N. Pouli, J. Marek, R. Marek *Tetrahedron* (2006), 62, 11987-11993.
38. Antiproliferative and proapoptotic activities of pyranoxanthenones, pyranothioxanthenones and their pyrazole-fused derivatives in HL-60 cells. E.M. Perchellet, M.M. Ward, A.-L. Skaltsounis, I.K. Kostakis, N. Pouli, P. Marakos, J.P. Perchellet, *Anticancer Res.* (2006) 26, 2791-2804.
39. Design and Synthesis of New Pyranoxanthenones Bearing a Nitro Group or an Aminosubstituted Side-Chain on the Pyran Ring. Evaluation of their Growth Inhibitory Activity in Breast Cancer Cells. G. Kolokythas, I. K. Kostakis, N. Pouli, P. Marakos, O. Ch. Kousidou, G. N. Tzanakakis, N. K. Karamanos *Eur. J. Med. Chem.* (2007) 42, 307-319.
40. Design, Synthesis and Evaluation of the Antiproliferative Activity of a Series of Novel Fused Xanthenone Aminoderivatives in Human Breast Cancer Cells. V. Giannouli, I. K. Kostakis, N. Pouli, P. Marakos, O. Ch. Kousidou, G. N. Tzanakakis, N. K. Karamanos *J. Med. Chem.* (2007) 50, 1716-1719.
41. Design, Synthesis and Cell Growth Inhibitory Activity of a Series of Novel Aminosubstituted Xantheno[1,2-*d*]imidazoles in Breast Cancer Cells. I. K. Kostakis, N. Pouli, P. Marakos, O. Ch. Kousidou, A. Roussidis, G. N. Tzanakakis, N. K. Karamanos. *Bioorg. Med. Chem.*, (2008), 16, 3445-3455.

42. The Synthesis of the New *C*-nucleoside 6-Deazaformycin B. S. Korouli, N. Lougiakis, P. Marakos, N. Pouli. *Synlett* (2008), 15, 181-184.

43. Synthesis and Antiviral Activity Evaluation of Some Novel Acyclic *C*-Nucleosides. N. Lougiakis, P. Marakos, N. Pouli, J. Balzarini. *Chem Pharm. Bull.* (2008), 56, 775-780.

44. NMR study of 5-substituted pyrazolo[3,4-*c*]pyridines. O. Tsikouris, T. Bartl, J. Toušek, N. Lougiakis, T. Tite, P. Marakos, N. Pouli, E. Mikros, R. Marek. *Magn. Res. Chem.* (2008), 46, 643-649.
45. The synthesis of a novel *C*-nucleoside designed as guanosine analogue. V. N. Kourafalos, T. Tite, E. Mikros, P. Marakos, N. Pouli, J. Balzarini. *Synlett*, (2008) 3129-3132.
46. Synthesis and free radical scavenging activity of some new spiropyranocoumarins. V. Panteleon, I. K. Kostakis, P. Marakos, N. Pouli, I. Andreadou. *Bioorg. Med. Chem. Lett.*, (2008), 18, 5781-5784.

47. Fused Xanthone Derivatives as Antiproliferative Agents. N. Pouli, P. Marakos. *Anti-Cancer Agents in Medicinal Chemistry*, (2009), 9, 77-98.
48. Synthesis of some new spiropyranoquinolines and evaluation of their free radical scavenging activity. V. Panteleon, I. K. Kostakis, P. Marakos, N. Pouli, I. Andreadou. *Chem. Pharm. Bull.*, (2009), 57, 446-452.
49. The Application of Mitsunobu Cyclization for the Synthesis of 2',3'-Dideoxy-C-nucleosides Designed as Didanosine Analogues., T. Tite, N. Lougiakis, P. Marakos, N. Pouli, *Synlett*, (2009), 1741-1744.
50. The Synthesis of 6-Deazaformycin A. T. Tite, N. Lougiakis, P. Marakos, N. Pouli, *Synlett*, (2009), 2927-2930.
51. Design and Synthesis of New *C*-Nucleosides as Potential Adenosine Deaminase Inhibitors, T. Tite, N. Lougiakis, V. Myrianthopoulos, P. Marakos, E. Mikros, N. Pouli, R. Tenta, E. Fragopoulou, T. Nomikos, *Tetrahedron*, (2010), 66, 9620-9628.
52. Design, Synthesis and Cytotoxic Activity Evaluation of New Linear Pyranoxanthone Aminoderivatives. G. Kolokythas, K. Daniilides, N. Pouli, P. Marakos, H. Pratsinis, D. Kletsas *J. Heterocycl. Chem.*, (2011), 48, 927-935.
53. Design, synthesis and antiproliferative activity of novel aminosubstituted Benzothiopyranoisoindoles. A. Christodoulou, I. K. Kostakis, V. Kourafalos, N. Pouli, P. Marakos, I. P. Trougakos, O. E. Tsitsilonis *Bioorg. Med. Chem. Lett.*, (2011), 21, 3110–3112.
54. Synthesis and Tautomerism of Substituted Pyrazolo[4,3-*c*]pyrazoles. S. S. Kadam, L. Maier, I. K. Kostakis, N. Pouli, J. Tousek, M. Necas, P. Marakos, R. Marek *Eur. J. Org. Chem*, (2013), 6811-6822.
55. Design, Synthesis and Cytotoxic Activity Evaluation of New Aminosubstituted Benzofurans. K. Daniilides, N. Lougiakis, N. Pouli, P. Marakos, P. Samara, O. Tsitsilonis, *Med. Chem.* (2014), 10, 619-627
56. Synthesis of New Nebularine Analogues and Their Inhibitory Activity against Adenosine Deaminase, N. Lougiakis, P. Marakos, N. Pouli, E. Fragopoulou, R.Tenta, *Chem. Pharm. Bull.* (2015), 63, 134–142
57. Synthesis and antiproliferative activity of some novel benzo-fused imidazo[1,8]naphthyridinones. V. Giannouli I. K. Kostakis, , N. Pouli, P. Marakos, I. P. Samara, O. E. Tsitsilonis, *Bioorg. Med. Chem. Lett.*, (2015), 25, 2621–2623
58. Synthesis and Pharmacological Evaluation of Novel Adenine−Hydrogen Sulfide Slow Release Hybrids Designed as Multitarget Cardioprotective Agents. N. Lougiakis, A. Papapetropoulos, E. Gikas, S. Toumpas, P. Efentakis, R. Wedmann, A. Zoga, Z. Zhou, E. K. Iliodromitis, A.-L. Skaltsounis, M. R. Filipovic, N. Pouli, P. Marakos, I. Andreadou *J. Med. Chem.* (2016) 59 (5), 1776–1790.
59. Novel pyrazolopyridine derivatives as potential angiogenesis inhibitors: Synthesis, biological evaluation and transcriptome-based mechanistic analysis. M. Michailidou, V. Giannouli, V. Kotsikoris, O. Papadodima, G. Kontogianni, I. K. Kostakis, N. Lougiakis, A. Chatziioannou, F. N. Kolisis, P. Marakos, N. Pouli, H. Loutrari *Eur. J. Med. Chem.* (2016), 121, 143-157.
60. The discovery of new cytotoxic pyrazolopyridine derivatives V. Giannouli, N. Lougiakis, I. K. Kostakis, N. Pouli, P. Marakos, A.-L. Skaltsounis, S. Nam, R. Jove, D. Horne, R. Tenta, H. Pratsinis, D. Kletsas *Bioorg. Med. Chem. Lett.*, (2016) 26, 5229-5233.
61. Design and synthesis of purine analogues as highly specific ligands for FcyB, a ubiquitous fungal nucleobase transporter N. Lougiakis, E.-S. Gavriil, M. Kairis, G. Sioupouli, G. Lambrinidi, D. Benaki, E. Krypotou, E. Mikros, P. Marakos, N. Pouli, G. Diallinas *Bioorg. Med. Chem.*, (2016) 24, 5941-5952.
62 Robust, universal biomarker assay to detect senescent cells in biological specimens K. Evangelou, N. Lougiakis, S. V Rizou, A. Kotsinas, D. Kletsas, D. M. Espín, N. Kastrinakis, N. Pouli, P. Marakos, P. Townsend, M. Serrano, J. Bartek, V. G. Gorgoulis *Aging Cell* (2017), 16, 192-197. **DOI:** 10.1111/acel.12545

63. Synthesis, docking study and kinase inhibitory activity of a number of new substituted pyrazolo[3,4-c]pyridines. M. Sklepari, N. Lougiakis, A. Papastathopoulos, N. Pouli, P. Marakos, V. Myrianthopoulos, T. Robert, S. Bach, E. Mikros, S. Ruchau *Chem. Pharm. Bull.* (2017), 65, 66-81. **DOI:** 10.1248/cpb.c16-00704
64. Discovery of new aminosubstituted pyrrolopyrimidines with antiproliferative activity against breast cancer cells and investigation of their effect towards the PI3Kα enzyme. K. Daniilides, N. Lougiakis, T. Evangelidis, I.K. Kostakis, N. Pouli, P. Marakos, E. Mikros, A.-L. Skaltsounis, S. Bach, B. Baratte, S. Ruchaud, V. Karamani, A. Papafotika, S. Christoforidis, O. Argyros, E. Kouvari, C. Tamvakopoulos. *Anticancer Agents Med. Chem.*, (2017), 17, 990-1002.
65. Synthesis and antiproliferative activity of new pyrazolo[3,4-*c*]pyridines. E.-S. Gavriil, N. Lougiakis, N. Pouli, P. Marakos, A.-L. Skaltsounis, S. Nam, R. Jove, D. Horne, K. Gioti, H. Pratsinis, D. Kletsas, R. Tenta. *Medicinal Chemistry*, (2017) 13(4), 365 - 374.
66. Design and Synthesis of Novel 7-Aminosubstituted pyrido[2,3-*b*]pyrazines Exhibiting Anti-breast Cancer Activity. O. Argyros §, N. Lougiakis §, E. Kouvari, A. Papafotika, C.P. Raptopoulou, V. Psycharis, S. Christoforidis, N. Pouli, P. Marakos, C. Tamvakopoulos. *Eur. J. Med. Chem.* (2017), 126, 954-968. **DOI:** 10.1016/j.ejmech.2016.12.025
67. Novel nucleoside analogues targeting HCV replication through an NS5A-dependent inhibition mechanism N. Lougiakis, E. Frakolaki, P. Karmou, N. Pouli, P. Marakos, V. Madan, R. Bartenschlager, N. Vassilaki, *Chemical Biology and Drug Design* (2017) 90, 352-367