

CURRICULUM VITAE

- Name** Marina Sagnou
- Contact details** NCSR “Demokritos”, Inst. Biology, Ag. Paraskevi, 153 10.
Tel. 0030-210-6503558, Fax. 0030-210-651 1767
e-mail. sagnou@bio.demokritos.gr
- Qualifications** 1993 BSc (Hons Biology/Chemistry) 1st class, Univ. Surrey
1998 PhD, Univ. Portsmouth, (Medicinal Chemistry)
- Current Post** 2007- Research Scientist Grade D’, NCSR “Demokritos”
- Previous Appointments**
- 2005-2007 Lecturer in Anatomy/Physiology, Neurology, Biological Psychology, IIEK “Ippokratios”
 - 2001-current Responsible for running the Laser Scanning Confocal Microscopy Unit of IB, NCSR “Demokritos”
 - 1997-2000 Lecturer in Physiology, Metabolism, Cell biology, IIEK “KORELKO”, Dep. Sports Sciences
 - 1997-2001 Postdoctoral Researcher, NCSR “Demokritos”
- Other Activities**
- Organisation of internal seminars for PhD students
 - Examiner for the IB exams for PhD scholarships.
 - Deputy for IB educational affairs
- Current Research**
- Design and synthesis of novel radiodiagnostic molecules for non-invasive diagnosis of Alzheimer’s disease
 - Design and synthesis of novel radiodiagnostic molecules for non-invasive diagnosis/therapy of breast and ovarian cancer
 - Design and synthesis of novel radiodiagnostic molecules for non-invasive diagnosis of p-glycoprotein function and multi-drug resistance pumps in CNS
 - Design and synthesis of novel platinum/ruthenium chelating molecules for targeted breast and ovarian cancer therapy
 - Design and synthesis of novel osteophilic complexes for imaging and therapy of bone lesions and inflammation
- Research Grants** 24.500 Euro; 7FP 7 (EURPIPIDES project 2008-2012)
2,500 Euro; “Kapodistrias” Ministry of Education
- Books**
- DR Churchman, MJ Sagnou, NI Ward, NJ Walker, “Inter-Analytical method for evaluation of heavy metals in “in-house” reference materials using flame AAS and ICP-MS”, In “heavy metals in the environment” Vol 2, RJ Allan and JP Nriagu (Edts), CEP Consultants Ltd, Edinburgh, (1993), 13-16.

Publications

- 1) [Tzanopoulou S, Sagnou M, Paravatou-Petsotas M, et al. "Evaluation of Re and Tc-99m Complexes of 2-\(4 '-Aminophenyl\)benzothiazole as Potential Breast Cancer Radiopharmaceuticals, *J Med Chem* \(2010\) **53** \(12\) , 4633-4641](#)
- 2) [Sagnou M, Tsoukalas C, Triantis C, et al. "A new tricarbonyl fac-\[M\(acac\)\(isc\)\(CO\)\(3\)\] complex \(M = Re, Tc-99m\) with acetylacetonate \(acac\) and isocyanide \(isc\) in a 2+1 combination", *Inorg. Chim. Acta* \(2010\) , **363** \(8\) , 1649-1653](#)
- 3) [M. Sagnou*, A. Strongilos, D. Hadjipavlou-Litina, E.A. Couladouros "Synthesis of Novel Benzoquinones with Anti-Inflammatory Activity" *Letts Drug Des & Discov* \(2009\) **6**, 172-177](#)
- 4) [Efthimiadou EK, Katsarou ME, Fardis M, Zikos C, Pitsinos EN, Kazantzis A, Leondiadis L, Sagnou M, Vourloumis D "Synthesis and characterization of novel natural product-Gd\(III\) MRI contrast agent conjugates" *Bioorg. & Med. Chem. Letts* \(2008\) **18**, 6058-61.](#)
- 5) [Papagiannopoulou, I. C. Pirmettis, M. Pelecanou, D. Komiotis, M. Sagnou, D. Benaki, C. P. Raptopoulou, A. Terzis, M. Papadopoulos "Synthesis and structural characterization of neutral "3 + 2" oxorhenium and oxotechnetium complexes of the 2-mercaptoethyl-N-glycine \(SNO\)/2,2'-bipyridine \(NN\) mixed ligand system" *Inorg. Chim. Acta* \(2007\) **360**, 3597-3602](#)
- 6) Piperakis SM, Petrakou E, Tsilimagaki S, Sagnou MJ, Monogiudis, Haniotakis G., Karkaseli H, Sarikaki E., "Biomonitoring with the comet assay of Greek green house workers exposed to pesticides", *Environ. Mol. Mutagen.* (2003), **41**, 104.
- 7) Sagnou MJ, Howard PW, Gregson SJ, Burke PJ, Thurston DE., "Design and synthesis of novel pyrrolbenzodiazepine (PBD) prodrugs for ADEPT Therapy" , *Bioorg. Med. Chem. Letts.* (2000), **10**, 2083.
- 8) Piperakis SM, Visvardis EE, Sagnou MJ, Tassiou AM., "Effects of smoking and ageing on oxidative DNA damage on human lymphocytes" (1998), **19**, 695

Invited speaker

1. «Osteophilic diphosphonate radiopharmaceuticals for diagnosis and therapy». 14o Seminar Spinal Cord Biomechanics, EEXOT, 05 - 07 December 2008

Conferences

1. M. Sagnou, S. Tzanopoulou, C. Raptopoulou, A. Terzis, I. Pirmettis, M. Papadopoulos, M. Pelecanou "In vitro and in vivo evaluation of potential imaging agents for Alzheimer's disease", Neuroscience Days of the Hellenic Society for Neuroscience, 1-2-October 2010, Athens.
2. M. Sagnou, D. Benaki, M. Paravatou-Petsotas, I. Pirmettis, M. Papadopoulos, Maria Pelecanou, "2+1" curcumin complexes with the [Re(CO)₃]⁺ core, Nuclear Medicine and Biology, 37, Issue 6, 684, 11th International Symposium on Technetium Other Radiometals in Chemistry and Medicine TE.RA.CHE.M.-2010 Forum-Brixen, Bressanone (Bz) - Italy Sept. 8-11, 2010
3. M. Sagnou, S. Tzanopoulou, M. Paravatou-Petsotas, E. Gourni, G. Loudos, S. Xanthopoulos, D. Lafkas, H. Kiaris, A. Varvarigou, I. C. Pirmettis, M. Papadopoulos, M. Pelecanou, "BIOLOGICAL EVALUATION OF RE AND 99mTc COMPLEXES OF 2-(4'-AMINOPHENYL) BENZOTHIAZOLE AS BREAST CANCER RADIOPHARMACEUTICALS", 14th Hellenic Symposium of Medicinal Chemistry, Thessaloniki, April 2010. (oral presentation)
4. M. Kostomoiri, A. Fragouli, M. Sagnou, L. Skaltsounis, M. Pelekanou, E. Tsilibary, A. Tzinia, "Oleuropein, the antioxidant constituent of olive oil, promotes the non-amyloidogenic pathway for processing the amyloid precursor protein (APP),
5. M. Sagnou, S. Tzanopoulou, M. Paravatou-Petsotas, E. Gourni, G. Loudos, S. Xanthopoulos, D. Lafkas, H. Kiaris, A. Varvarigou, I. C. Pirmettis, M. Papadopoulos, M. Pelecanou, «ΑΝΑΠΤΥΞΗ ΝΕΩΝ ΕΚΛΕΚΤΙΚΩΝ ΜΕΣΩΝ ΓΙΑ ΤΗΝ ΑΠΕΙΚΟΝΙΣΗ ΚΑΙ ΘΕΡΑΠΕΙΑ ΤΟΥ ΚΑΡΚΙΝΟΥ ΤΟΥ ΜΑΣΤΟΥ», 7th Hellenic Conference for tumour markers and targeted therapy, 27-29/11/2008.
6. Sagnou M., Tzanopoulou S., Paravatou-Petsotas M., Papadopoulos M., Pirmettis I., Pelecanou M. (2008) "Synthesis and Evaluation of Novel Benzothiazole Complexes as Potential Biochemical, Cellular and Solid Tumour Radiotracers", FEBS Journal 275, s1, 434, 33rd FEBS Congress and 11th IUBMB Conference, Athens.
7. S. Tzanopoulou, G. Patsis, M. Sagnou, I. Pirmettis, M. Papadopoulos, M. Pelecanou, "Synthesis and Characterization of M(I)(CO)₃(NNO) Complexes (M = Re, 99mTc) Conjugated to 6-Methyl-2-(4'-aminophenyl)benzothiazole Towards the Development of Alzheimer's Disease Radiodiagnostics", 7th International Symposium on Technetium, Rhenium and Other Metals in Chemistry and Nuclear Medicine, Bressanone, Italy, 2006.
8. S. Tzanopoulou, G. Patsis, M. Sagnou, A. Panagiotopoulou, A. Papadopoulos, I. Pirmettis, M. Papadopoulos, M. Pelecanou, "Complexes of 4-(aminophenyl)benzothiazole derivatives with technetium and rhenium and assessment of their properties as diagnostic and/or therapeutic radiopharmaceuticals", International Symposium on Trends in Radiopharmaceuticals (ISTR-2005), Vienna, Austria, 2005.
9. Visvardis EE, Piperakis SM, Sagnou MJ, Sophianopoulou V, Pataryas Th., Margaritis LH, "Analysis at the single cell level of the DNA repair capacity and

10. Visvardis EE, Sagnou MJ, Margaritis LH, Piperakis SM, "DNA repair and induction of apoptosis in PBMCs due to ionising radiation DNA damage"; Radiation Research Society Annual Meeting, Luisville, USA, 1998.
11. Piperakis SM, Visvardis EE, Sagnou MJ, Tassiou AM., "DNA damage in smokers' lymphocytes"; European Environmental Conference, Toulouse, 1997.