

CURRICULUM VITAE

➤ PERSONAL DETAILS

NAME: Marina Sagnou
DATE & PLACE BIRTH: 13 /09/1971 – Athens Greece
MARITAL STATUS: Married – 2 children (16 and 20 years old)
WORK ADDRESS: NCSR “DEMOKRITOS”
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➤ EDUCATION

1993-1998 PhD in Medicinal Chemistry
University of Portsmouth, School of Pharmacy and Biomedical Sciences, Michael’s Building, White Swan Road, Portsmouth, PO1 2DZ
Attendance of courses on drug design, organic chemistry reaction mechanisms, methods of chemotherapy and radiotherapy for cancer.
1990-1993 BSc Biology/Chemistry (combined degree), 1st class (Hons)
St. Mary’s College, College of University of Surrey, Twickenham, London
1983-1989 Varvakios experimental School – High school -Lyceum

➤ PROFESSIONAL EXPERIENCE

Oct 23 – current NCSR “DEMOKRITOS”, Inst. Biosciences & Applications, Laboratory of Structural Studies of Biomolecules and Drugs with NMR, Ag. Paraskevi, Athens
Senior Researcher (Researcher B’ grade)
Mar 13 – Mar 23: NCSR “DEMOKRITOS”, Inst. Biosciences & Applications, Laboratory of Structural Studies of Biomolecules and Drugs with NMR, Ag. Paraskevi, Athens
Researcher C’ grade
Mar 07 – Mar 13 NCSR “DEMOKRITOS”, Inst. Biosciences & Applications, Laboratory of Structural Studies of Biomolecules and Drugs with NMR, Ag. Paraskevi, Athens
Researcher D’ grade
Aug 01 – Mar 07 NCSR “DEMOKRITOS”, Inst. Biology, Ag. Paraskevi, Athens
Assistant Research personnel for the confocal microscopy unit
Nov 98 – Mar 01 NCSR “DEMOKRITOS”, Inst. Physical Chemistry, Organic and Bioorganic Chemistry Laboratory, Ag. Paraskevi, Athens
Postdoctoral fellow in the EPET II funding scheme.
May 97 – Jul 98 NCSR “DEMOKRITOS”, Inst. Biology, DNA damage and repair mechanism Laboratory, Ag. Paraskevi, Athens
Postdoctoral fellow in an EU funded program

Sep 96 – May 97 Langstone Campus, University of Portsmouth, Portsmouth, PO4 8LW.
“Resident tutor” for a 450-students hall of residents

➤ **MONOGRAPHS**

- 1) PhD Thesis (1998). Title: « Rational design, synthesis and biological evaluation of prodrugs of the Pyrrolo[2,1-e][1,4]benzodiazepine family of antitumour antibiotics »
University of Portsmouth-Prof. David E. Thurston
- 2) Final year project Chemistry (1993). Title: «The synthesis of steroid cisplatin analogues and the kinetic investigation of their binding with nucleosides»
University of Surrey-St. Mary's College-Dr. Michael Caine
- 3) Final year project Biology (1993). Title: «Isolation and inhibition studies on the cytochrome P-450 from the yeast *S. cerevisiae*»
University of Surrey-St. Mary's College-Dr. Steve Talbot

➤ **PATENTS – PATENT APPLICATIONS**

- Epainetos Agamemnon, Sivolapenko Grigorios, **Sagnou Marina**, PSMA targeting prodrugs, National Patent application No 20020100189, 17/04/2002
- New Derivatives of 3,5-divinyl-pyrazole for medical applications by Kolotova Ekaterina Sergeevna, Shtil Alexander Albertovich, Novikov Fedor Nikolaevich, Chilov Germes Grigorievich, Stroganov Oleg Valentinovich, Stroilov Victor Sergeevich, Zeifman Alexey Alexandrovich, Titov Ilya Yurievich, Sagnou Marina and Alexiou Polyxeni, WO2016190770 A1, Publication date Dec 1, 2016
- TRICARBONYL COMPLEXES OF TRANSITION METALS WITH BENZO-HETEROCYCLIC DERIVATIVES OF THE CYCLOPENTADIENYL ANION, M. Pelcanou, M. Sagnou, M. Papadopoulos, I. Pirmettis, B. Mavroidi, A. Seghani,
 - OBI, No 20180100128, 22-3-18 / PCT/EP2019/057235
 - Europe (Appl. No EP19716796A, Publication No EP3755383B1-18-08-2021)
 - USA (Appl. No US201917040117A, Publication No US11845763B2-19-12-2023)
 - China (Appl. No CN201980020996A, Publication No CN111936173B-28-07-2023)
 - India (Appl. No IN202017044136, Publication No IN464866. 01-11-2023)

➤ **PUBLICATIONS**

- 1) Mangana, M., Lambrinidis, G., Kostakis, I. K., Kalpaktsi, I., Sagnou, M., Nicolaou, C., Mikros, E., Chatzipanagiotou, S., & Ioannidis, A. (2025). Towards New Scaffolds for Antimicrobial Activity—In Silico/In Vitro Workflow Introducing New Lead Compounds. *Antibiotics*, 14(1), 11. <https://doi.org/10.3390/antibiotics14010011>
- 2) Karagianni, A., Timotheatou, S., Manakou, V., Moutselos, A., Athanasopoulos, A., Politopoulos, K., Matiadis, D., Sagnou, M., & Alexandratou, E. (2024). Monocarbonyl curcuminoids as potential photosensitizers in photodynamic therapy against skin cancer. *Journal of photochemistry and photobiology. B, Biology*, 260, 113025. Advance online publication. <https://doi.org/10.1016/j.jphotobiol.2024.113025>
- 3) Papadopoulou, P., Polissidis, A., Kythreoti, G., Sagnou, M., Stefanatou, A., & Theoharides, T. C. (2024). Anti-Inflammatory and Neuroprotective Polyphenols Derived from the European Olive Tree, *Olea europaea* L., in Long COVID and Other Conditions Involving Cognitive

- Impairment. *International Journal of Molecular Sciences*, 25(20), 11040.
<https://doi.org/10.3390/ijms252011040>
- 4) Stouraitis, A., Sagnou, M. et al. (2024) Mixed ligand Re and ^{99m}Tc tricarbonyl complexes bearing two important pharmacophores: 2-(4'-aminophenyl)benzothiazole and curcumin, *Inorg Chem Acta*, 571, 122172
 - 5) Tsouri, S., Tselo, E., Premetis, G. E., Furlan, V., Pantiora, P. D., Mavroidi, B., Matiadis, D., Pelecanou, M., Papageorgiou, A. C., Bren, U., Sagnou, M., & Labrou, N. E. (2024). A Monocarbonyl Curcuminoid Derivative Inhibits the Activity of Human Glutathione Transferase A4-4 and Chemosensitizes Glioblastoma Cells to Temozolomide. *Pharmaceuticals* (Basel, Switzerland), 17(3), 365. <https://doi.org/10.3390/ph17030365>
 - 6) Mavroidi, B.; **Sagnou, M.**; Halevas, E.; Mitrikas, G.; Kapisir, F.; Bouziotis, P.; Hatzidimitriou, A.G.; Pelecanou, M.; Methenitis, C. A (2023) Tridentate Cu(II) Complex with a 2-(4'-Aminophenyl)benzothiazole Derivative: Crystal Structure and Biological Evaluation for Anticancer Activity. *Inorganics* 11, 132. <https://doi.org/10.3390/inorganics11030132> (IF. 2.9)
 - 7) Pantiora, P.; Furlan, V.; Matiadis, D.; Mavroidi, B.; Perperopoulou, F.; Papageorgiou, A. C.; **Sagnou, M.**; Bren, U.; Pelecanou, M.; & Labrou, N. E. (2022). Monocarbonyl Curcumin Analogues as Potent Inhibitors against Human Glutathione Transferase P1-1. *Antioxidants* (Basel, Switzerland), 12(1), 63. <https://doi.org/10.3390/antiox12010063> (IF. 7.0)
 - 8) Saporiti, T.; Cabrera, M.; Bentancur, J.; Ferrari, M.E.; Cabrera, N.; Pérez-Montfort, R.; Aguirre-Crespo, F.J.; Gil, J.; Cuore, U.; Matiadis, D.; **Sagnou, M.**; Alvarez, G. (2022) Phenotypic and Target-Directed Screening Yields New Acaricidal Alternatives for the Control of Ticks. *Molecules*, 27, 8863. <https://doi.org/10.3390/molecules27248863> (IF. 4.6)
 - 9) Frei, A.; Elliott, A. G.; Kan, A., Dinh, H.; Bräse, S.; Bruce, A. E.; Bruce, M. R.; Chen F.; Humaidy, D.; Jung, N.; King, A. P.; Lye, P. G.; Maliszewska, H. K.; Mansour, A. M.; Matiadis, D.; Muñoz, M. P.; Pai, T. Y.; Pokhrel, S.; Sadler, P. J.; **Sagnou, M.**; Taylor, M.; Wilson, J.J.; Woods, D.; Zuegg, J.; Meyer, W.; Cain, A.K; Cooper, M. A.; Blaskovich, M. A. T. (2022). Metal Complexes as Antifungals? From a Crowd-Sourced Compound Library to the First In Vivo Experiments. *JACS Au*, 2, 2277–2294. <https://doi.org/10.1021/jacsau.2c00308> (IF. 8.0)
 - 10) Matiadis, D.; Fountzoula, C.; Trapali, M.; Karkalousos, P.; **Sagnou, M.** (2022) Naked-eye colorimetric cyanide detection by monocarbonyl analogue of curcumin, *J Mol Struct*, 1268, 133677. <https://doi.org/10.1016/j.molstruc.2022.133677> (IF. 3.8)
 - 11) Halevas, E.; Mavroidi, B.; Kokotidou, C.; Moschona, A.; **Sagnou, M.**; Mitraki, A.; Litsardakis, G.; & Pelecanou, M. (2022). Remdesivir-loaded bis-MPA hyperbranched dendritic nanocarriers for pulmonary delivery. *J drug deliv sci tech*, 75, 103625. <https://doi.org/10.1016/j.jddst.2022.103625> (IF. 5.0)
 - 12) Mavroidi, B.; Kaminari, A.; Matiadis, D.; Hadjipavlou-Litina, D.; Pelecanou, M.; Tzinia, A.; **Sagnou, M.** (2022) The Prophylactic and Multimodal Activity of Two Isatin Thiosemicarbazones against Alzheimer's Disease In Vitro. *Brain Sci.* 12, 806. <https://doi.org/10.3390/brainsci12060806> (IF. 3.3)
 - 13) Kakavoulia, M. A.; Karakota, M.; Kaloyianni, M.; Halevas, E.; **Sagnou, M.**; Galliou, P. A.; Koliakos, G. (2022). The cytotoxicity effect of a bis-MPA-based dendron, a bis-MPA-PEG dendrimer and a magnetite nanoparticle on stimulated and non-stimulated human blood lymphocytes. *Toxicology in vitro: an international journal published in association with BIBRA*, 82, 105377. <https://doi.org/10.1016/j.tiv.2022.105377> (IF. 3.2)
 - 14) Vidali, V.P.; Nigianni, G.; Athanassopoulou, G.D.; Canko, A.; Mavroidi, B.; Matiadis, D.; Pelecanou, M.; **Sagnou, M.** (2022) Synthesis of Novel Pyrazolo[3,4-b]pyridines with Affinity for β -Amyloid Plaques. *Molbank* 2022, M1343. <https://doi.org/10.3390/M1343> (IF. 0.6)

- 15) Mavroidi, B.; Kaminari, A.; Makrypidi, K.; Shegani, A.; Bouziotis, P.; Pirmettis, I.; Papadopoulos, M.; **Sagnou M.**; M. Pelecanou, (2022) Biological evaluation of complexes of cyclopentadienyl $M(CO)^{3+}$ ($M = Re, 99mTc$) with high blood–brain barrier penetration potential as brain cancer agents. *Invest New Drugs* <https://doi.org/10.1007/s10637-022-01211-z> (IF. 3.850)
- 16) Matiadis, D.; Liggri, P.G.V.; Kritsi, E.; Tzioumaki, N.; Zoumpoulakis, P.; Papachristos, D.P.; Balatsos, G.; **Sagnou, M.**; Michaelakis, A. (2021) Curcumin Derivatives as Potential Mosquito Larvicidal Agents against Two Mosquito Vectors, *Culex pipiens* and *Aedes albopictus*. *Int. J. Mol. Sci.*, 22, 8915. <https://doi.org/10.3390/ijms22168915> (IF. 5.923)
- 17) Matiadis, D.; Ng, S.-T.; Chen, E.H.-L.; Nigianni, G.; Vidal, V.P.; Canko, A.; Chen, R.P.-Y.; **Sagnou, M*** (2021) Synthesis and Biological Evaluation of Hydroxylated Monocarbonyl Curcumin Derivatives as Potential Inducers of Neprilysin Activity. *Biomedicines* 9, 955. <https://doi.org/10.3390/biomedicines9080955> (IF. 6.081)
- 18) Halevas, E.; Mavroidi, B.; Kokotidou, C.; Mitraki, A.; Pelecanou, M.; **Sagnou. M.** (2021) Advanced bis-MPA hyperbranched dendritic nanocarriers of artemisinin with anticancer potential. *J Nanopart Res* 23, 135 <https://doi.org/10.1007/s11051-021-05250-0> (IF. 2.253)
- 19) Halevas, E.;* Arvanitidou, M.; Mavroidi, B.; Hatzidimitriou, A. G.; Politopoulos, K.; Alexandratou, E.; Pelecanou, M.; **Sagnou, M. ***, (2021) A novel curcumin gallium complex as photosensitizer in photodynamic therapy: Synthesis, structural and physicochemical characterization, photophysical properties and in vitro studies against breast cancer cells, *J Mol Struct*, 1240, 130485, <https://doi.org/10.1016/j.molstruc.2021.130485> (IF. 3.8)
- 20) Matiadis, D.; Nowak, K.E.; Alexandratou, E.; Hatzidimitriou, A.; **Sagnou, M.**; Papadakis, R. (2021). Synthesis and (fluoro)solvatochromism of two 3-styryl-2-pyrazoline derivatives bearing benzoic acid moiety: A spectral, crystallographic and computational study *J. Mol. Liq.*, 331, 115737-115749, [10.1016/j.molliq.2021.115737](https://doi.org/10.1016/j.molliq.2021.115737) (IF. 6.165)
- 21) Matiadis, D.; Saporiti, T.; Aguilera, E.; Robert, X.; Guillon, C.; Cabrera, N.; Pérez-Montfort, R.; **Sagnou, M.**; Alvarez, G. (2021). Pyrazol(in)e derivatives of curcumin analogs as a new class of anti-*Trypanosoma cruzi* agents. *Future medicinal chemistry*, 13(8), 701–714. <https://doi.org/10.4155/fmc-2020-0349> (IF. 3.808)
- 22) Halevas, E.; Hatzidimitriou, A.; Mavroidi, B.; **Sagnou, M.**; Pelecanou, M.; Matiadis, D. (2021) Synthesis and Structural Characterization of (E)-4-[(2-Hydroxy-3-methoxybenzylidene)amino]butanoic Acid and Its Novel Cu(II) Complex. *Molbank* 2021, 1179. <https://doi.org/10.3390/M1179>
- 23) Mourtas, S.; Mavroidi, B.; Marazioti, A.; Kannavou, M.; **Sagnou, M.**; Pelecanou, M.; Antimisari, S. G. (2020). Liposomes decorated with 2-(4'-aminophenyl) benzothiazole effectively inhibit A β 1-42 fibril formation and exhibit in vitro brain targeting potential, *Biomacromolecules*, 21, 4685-4698. [10.1021/acs.biomac.0c00811](https://doi.org/10.1021/acs.biomac.0c00811) (IF 6.092)
- 24) Matiadis, D.*; Karagiaouri, M.; Mavroidi, B.; Nowak, K. E.; Katsipis, G.; Pelecanou, M.; Pantazaki, A., **Sagnou, M.*** (2020) Synthesis and antimicrobial evaluation of a pyrazoline-pyridine silver(I) complex: DNA-interaction and anti-biofilm effects, *Biometals*, DOI: 10.1007/s10534-020-00263-z (IF 2.479)
- 25) Halevas, E.; Mitrakas, A.; Mavroidi, B.; Athanasiou, D.; Gkika, P.; Antoniou, K.; Samaras, G.; Lialiaris, E.; Hatzidimitriou, A.; Pantazaki, A.; Koukourakis, M.; **Sagnou, M.**; Pelecanou, M.; Lialiaris, T. (2020). Structurally characterized copper-chrysin complexes display genotoxic and cytotoxic activity in human cells, *Inorg Chim Acta* 515, 120062. doi: <https://doi.org/10.1016/j.ica.2020.120062>, (IF 2.304)

- 26) Matiadis, D.; **Sagnou, M.** Pyrazoline Hybrids as Promising Anticancer Agents: An Up-to-Date Overview. *Int. J. Mol. Sci.* 2020, 21, 5507. <https://doi.org/10.3390/ijms21155507> (IF 5.923)
- 27) **Sagnou, M.;*** Mavroidi, B.; Kaminari, A.; Boukos, N.; Pelecanou, M. (2020) Novel Isatin Thiosemicarbazone Derivatives as Potent Inhibitors of β -Amyloid Peptide Aggregation and Toxicity, *ACS Chem. Neurosci.* 11, 15, 2266–2276, <https://doi.org/10.1021/acscchemneuro.0c00208> (IF 4.486)
- 28) **Sagnou, M.;*** Alexiou, P.; Ivanova, E. S.; Novikov, F. N; Stroylov, V. S.; Titov, I. Y.; Tatarskiy, V. V.; Vagida, M. S.; Pelecanou, M.; Shtil, A. A.*; Chilov, G. G. (2020). Novel Curcumin Derivatives as P-glycoprotein Inhibitors: Molecular Modeling, Synthesis and Sensitization of Multidrug Resistant Cells to Doxorubicin, *Eur J Med Chem*, 198:112331, DOI: 10.1016/j.ejmech.2020.112331 (IF 5.572)
- 29) Halevas, E.; Pekou, A.; Papi, R., Mavroidi, B.; Hatzidimitriou, A.; Zahariou, G.; Litsardakis, G.; **Sagnou, M.;** Pelecanou, M.; Pantazaki, A. (2020) Synthesis, physicochemical characterization and biological properties of two novel Cu(II) complexes based on natural products curcumin and quercetin, *J Inorg Biochem.*, 208, 1110832 <https://doi.org/10.1016/j.jinorgbio.2020.111083> (IF 3.212)
- 30) Halevas, E.; Mavroidi, B.; Antonoglou, O.; Hatzidimitriou, A.; **Sagnou, M.;** Pantazaki, A. A.; Litsardakis, G.; Pelecanou, M. (2020). Structurally characterized gallium-chrysin complexes with anticancer potential, *Dalton Trans.* 49, 2734-2746. doi: 10.1039/c9dt04540f. (IF 4.174)
- 31) Kazantzis, K.T.; Koutsonikoli, K.; Mavroidi, B.; Zachariadis, M.; Alexiou, P.; Pelecanou, M.; Politopoulos, K.; Alexandratou, E.;* **Sagnou, M.*** (2020). Curcumin derivatives as photosensitizers in Photodynamic Therapy: photophysical properties and in vitro studies with prostate cancer cells, *Photochem. Photobiol. Sci.*, 19, 193. <https://doi.org/10.1039/C9PP00375D> (IF 3.982)
- 32) Matiadis, D.; Mavroidi, B.; Panagiotopoulou, A.; Methenitis, C.; Pelecanou, M.; **Sagnou, M.*** (2020). (E)-1-(4-Ethoxycarbonylphenyl)-5-(3,4-dimethoxyphenyl)-3-(3,4-dimethoxystyryl)-2-pyrazoline: Synthesis, Characterization, DNA-Interaction and Evaluation of Activity Against Drug-Resistant Cell Lines, *Molbank*, M1114. <https://doi.org/10.3390/M1114>
- 33) **Sagnou, M.;** Mavroidi, B; Shegani, A.; Paravatou-Petsotas, M.; Raptopoulou, C.; Psycharis, V.; Pirmettis, I.; Papadopoulos, M.S.; Pelecanou, M. (2019). Remarkable Brain Penetration of Cyclopentadienyl M(CO)₃⁺ (M = ^{99m}Tc, Re) Derivatives of Benzothiazole and Benzimidazole Paves the Way for Their Application as Diagnostic, with Single-Photon-Emission Computed Tomography (SPECT), and Therapeutic Agents for Alzheimer's Disease. *J Med Chem.* 62, 2638-2650. <https://doi.org/10.1021/acs.jmedchem.8b01949> (IF 6.205)
- 34) Liargkova, T.; Eleftheriadis, N.; Dekker, F.; Voulgari, E.; Avgoustakis, C.; **Sagnou, M.;** Mavroidi, B.; Pelecanou, M.; Hadjipavlou-Litina, D. (2019) Small Multi-target Molecules Incorporating the Enone Moiety, *Molecules*, 24, 199. <https://doi.org/10.3390/molecules24010199>. (IF 3.267)
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- 36) Kiritsis, C.; Mavroidi, B.; Shegani, A.; Palamaris, L.; Loudos, G.; **Sagnou, M.;** Pirmettis, I.; Papadopoulos, M.; Pelecanou, M.; (2017) 2-(4'-Aminophenyl)benzothiazole Labeled with ^{99m}Tc-Cyclopentadienyl for Imaging β -Amyloid Plaques, *ACS Med Chem Lett*, 8, 1089-1092. <https://doi.org/10.1021/acsmchemlett.7b00294> (IF 3.975)

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- 40) Mavroidi, B.; **Sagnou, M.**; Stamatakis, K.; Paravatou-Petsotas, M.; Pelecanou, M.; Methenitis, C. (2016). Palladium(II) and platinum(II) complexes of derivatives of 2-(4'-aminophenyl)benzothiazole as potential anticancer agents. Inorg Chim Acta, 444, 63-75. <https://doi.org/10.1016/j.ica.2016.01.012> (IF 2.046)
- 41) Kostomoiri, M.; Zikos, Ch.; Benaki, D.; Triantis, Ch.; **Sagnou, M.**; Paravatou-Petsotas, M.; Papadaki, A.; Boleti, H.; Papadopoulos, M.; Pirmettis, I.; Pelecanou, M.; Livaniou, E. (2015) New labelled derivatives of the neuroprotective peptide colivelin: Synthesis, characterization, and first in vitro and in vivo applications. Arch Biochem Biophys, 567, 83–93. <https://doi.org/10.1016/j.abb.2014.12.027> (IF 3.017)
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- 43) Triantis, C.; Tsotakos, T.; Tsoukalas, Ch.; **Sagnou, M.**; Raptopoulou, C.; Terzis, A.; Psycharis, V.; Pelecanou, M.; Pirmettis, I.; Papadopoulos, M. (2013). Synthesis and characterization of *fac*-[M(CO)₃(P)(OO)] and *cis-trans*-[M(CO)₂(P)₂(OO)] complexes (M = Re, ^{99m}Tc) with acetylacetone and curcumin as OO donor bidentate ligands. Inorg Chem 52, 12995-13003. <https://doi.org/10.1021/ic401503b> (IF 4.820)
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- 45) Kostomoiri, M.; Fragkouli, A.; **Sagnou, M.**; Skaltsounis, L. A.; Pelecanou, M.; Tsilibary, E. C.; Tzinia, A. K. (2013). Oleuropein, an antioxidant polyphenol constituent of olive favors α -secretase cleavage of the amyloid precursor protein (APP). Cell. Mol Neurobiol. 33, 147–154. <https://doi.org/10.1007/s10571-012-9880-9>. (IF 2.506)
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Total citations: 1,226 – (Scopus - Author ID: 16744923800)

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1. Development of novel technetium-99m complexes as light chain amyloidosis radiodiagnostic tracers, Efsthios Kastitis, Asimina Papanikolaou, Constantinos E. Vorgias, Anastasios Georgoulis, Maria Pelecanou, Minas Papadopoulos, Ioanna Andreadou, Nektarios Pirmettis, Antonio Shegani, Marina Sagnou, Ioannis Pirmettis, Barbara Mavroidi, International Symposium on Amyloidosis, Rochester, Minnesota, USA, May 26-30, 2024.
2. Preliminary Evidence for the Combined Efficacy of Focused Ultrasound Blood-Brain Barrier Opening and Re-1 Delivery for Memory Improvement in a 3xTg-Alzheimer's Disease Mouse Model, AAIC 2024 | July 28 – Aug. 1, 2024 | Philadelphia, USA
3. A. Kokkali, A-M Kostaki, G. Athanassopoulou, A. Makri, M. Sagnou, V. P. Vidali, G. Kythreoti (2023) Natural Product Analogues as Antibacterial Agents: The Case of Cinnamaldehyde and Colupulone, 9th International Electronic Conference on Medicinal Chemistry, 1–30 November 2023, online symposium.
4. V. P. Veroniki, G. Nigianni, G.D. Athanassopoulou, A. Canko, V. Mavroidi, D. Matiadis, M. Pelecanou, M. Sagnou. (2021) Synthesis of novel pyrazolopyridines with affinity for β -amyloid plaques. 18th Hellenic Symposium on Medicinal Chemistry, 25-27 February 2021, online symposium. **(1st poster award)**
5. B. Mavroidi, M. Sagnou, A. Shegani, M. Paravatou-Petsotas, I. Pirmettis, M. Papadopoulos, M. Pelecanou (2021). Development of $^{99m}\text{Tc}/\text{Re}$ 2-phenylbenzothiazole agents against breast cancer. 18th Hellenic Symposium on Medicinal Chemistry, February 25 – 27, 2021. Virtual meeting (poster presentation)
6. D. Matiadis, B. Mavroidi, H. Pratsinis, D. Kletsas, M. Pelecanou, M. Sagnou (2021). Novel pyrazoline-bearing curcuminoid derivatives: synthesis and evaluation of their potential anticancer activity. 18th Hellenic Symposium on Medicinal Chemistry, February 25 – 27, 2021 Virtual meeting (oral presentation)
7. P. Pantiora, D. Matiadis, B. Mavroidi, F. Perperopoulou, M. Sagnou, M. Pelecanou, N. Labrou (2021) Inhibition activity of curcumin derivatives against the glutathione s-transferase enzyme. Hellenic Society for Biochemistry and Molecular Biology (HSBMB) virtual congress, January – June 2021 (oral presentation)
8. D. Matiadis, B. Mavroidi, M. Pelecanou, M. Sagnou (2019). Novel curcuminoid analogues bearing pyrazolines: synthesis and biological evaluation. EFMC International Symposium on Advances in Synthetic and Medicinal Chemistry, September 1-5, 2019, Athens, Greece (poster presentation).
9. E. Halevas, B. Mavroidi, C. Kokotidou, A. Mitraki, M. Pelecanou, M. Sagnou (2019). Anticancer activity of artemisinin-loaded hyperbranched dendritic nanocarriers. 12th Panhellenic Conference of Chemical Engineering, May 29-31, 2019, Athens, Greece (poster presentation).
10. B. Mavroidi, M. Sagnou, A. Shegani, M. Paravatou-Petsotas, I. Pirmettis, M. Papadopoulos, M. Pelecanou, (2019). Biological Evaluation of a 2-(4'-Aminophenyl)benzothiazole Diagnostic Agent for Breast Cancer. 70th Panhellenic Conference of the Hellenic Society of Biochemistry and Molecular Biology (EEBMB2019), November 29 – December 01, 2019, Athens, Greece (poster presentation).
11. A. Kaminari, B. Mavroidi, A. Tzinia, M. Pelecanou, M. Sagnou (2019). Biological evaluation of new isatin derivatives as inhibitors of neurodegeneration by modulation of insulin signaling. 70th

- Panhellenic Conference of the Hellenic Society of Biochemistry and Molecular Biology (EEBMB2019), November 29 – December 01, 2019, Athens, Greece (poster presentation).
12. B. Mavroidi, M. Sagnou, I. Roupa, C. Methenitis, M. Paravatou-Petsotas, I. Pirmettis, M. Papadopoulos, M. Pelecanou (2018). Synthesis and evaluation of a fac-[Re(CO)₃]⁺ complex bearing 2-(4'-aminophenyl)benzothiazole as anticancer agent. 3rd International edition of the symposium on Technetium and Other Radiometals in Chemistry and Medicine (TERACHEM 2018), September 26-29, 2018, Bressanone, Italy
 13. B. Mavroidi, M. Sagnou, I. Roupa, C. Methenitis, M. Paravatou-Petsotas, I. Pirmettis, M. Papadopoulos, M. Pelecanou (2018). Biological evaluation of a fac-[Re(CO)₃]⁺ complex bearing 2-(4'-aminophenyl)benzothiazole for tumor therapy. 69th Panhellenic Conference of the Hellenic Society of Biochemistry and Molecular Biology (EEBMB2018), November 23 – 25, 2018, Larissa, Greece
 14. E. Halevas E, M. Pelecanou, M. Sagnou, B. Mavroidi, A. Pantazaki, A. Hatzidimitriou, G. Katsipis, T. Lialiaris, D. Chronopoulos, A. Salifoglou, G. Litsardakis (2018). Magnetic nano-formulations for drug delivery applications of natural polyphenol-metal complexes against cancer. 30th International Symposium on the Chemistry of Natural Products and the 10th International Congress on Biodiversity (ISCNP30 & ICOB10), November 25 – 29, 2018, Athens, Greece
 15. B. Mavroidi, C. Kiritsis, A. Shegani, A. Stouraitis, C. Triantis, M. Paravatou-Petsotas, M. Sagnou, I. Pirmettis, M. Papadopoulos, M. Pelecanou, "Biological evaluation of mixed pharmacophore fac-[M(OO)(isc)(CO)₃] and fac-[M(NO)(isc)(CO)₃] (M = Re, ^{99m}Tc) complexes bearing 2-(4'-aminophenyl)benzothiazole for tumor diagnosis", 22nd International Symposium on Radiopharmaceutical Sciences (ISRS 2017), 17-19 May, 2017, Dresden, Germany (poster presentation).
 16. C. Kiritsis, B. Mavroidi, A. Shegani, A. Stouraitis, M. Sagnou, I. Pirmettis, M. Papadopoulos, M. Pelecanou, "Synthesis and biological evaluation of 2-(4'-aminophenyl)benzothiazole labeled with ^{99m}Tc-cyclopentadienyl as potential imaging probe for β-amyloid plaques", 10th Panhellenic Conference on Alzheimer's Disease and Related Disorders and 2nd Mediterranean Conference on Neurodegenerative Diseases, 2-5 February, 2017, Thessaloniki, Greece (poster presentation).
 17. G. Bergele, T. Konstantopoulos, I. Roupa, B. Mavroidi, M. Sagnou, M. Pelecanou, C. Methenitis, "Synthesis and characterization of Ga(III) complexes of the curcuminoid bis-(4-hydroxy-3-methoxyphenyl)-1,6-dien-2-pyrazolo-3-pyridine. Interaction with CT-DNA", 2-4 December, 2016, Aristotle University's Research Dissemination Center (KEDEA), Thessaloniki, Greece (poster presentation).
 18. B. Mavroidi, M. Sagnou, G. Mitrikas, M. Paravatou-Petsotas, M. Pelecanou, C. Methenitis, Complexes of Cu(II) Conjugated with 2-(4'-aminophenyl)-benzothiazole derivatives as promising anticancer agents, 16th Hellenic Symposium on Medicinal Chemistry, January 23-25, 2015, Patra, Greece.
 19. A. Stouraitis, M. Sagnou, B. Mavroidi, C. Kiritsis, A. Shegani, M. Paravatou-Petsotas, C. Methenitis, I. Pirmettis, M. Papadopoulos, M. Pelecanou (2015). Mixed pharmacophore fac-[M(OO)(isc)(CO)₃] (M = Re, ^{99m}Tc) complexes bearing 2-(4'-aminophenyl) benzothiazole and Curcumin for tumor diagnosis and therapy. 16th Hellenic Symposium on Medicinal Chemistry, January 23-25, 2015, Patra, Greece.

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21. D. Xidaki, V. Psyharis, K. Chasapis, M. Pelecanou, E. Tsilibary, M. Sagnou, Synthesis and structural characterization of β -TCP and biphasic mixtures with hydroxyapatite and curcumin loading and release studies, 9th Congress of the Hellenic Biomaterial Society, 7 - 8 Nov 2014, Theocharakis Foundation
22. C. Triantis, M. Sagnou, B. Mavroidi, M. Paravatou-Petsotas, I. Pirmettis, M. Papadopoulos, M. Pelecanou, "Mixed pharmacophore fac-[M(OO)(isc)(CO)₃] (M= Re, ^{99m}Tc) complexes", 2nd International Symposium on Technetium and Other Radiometals in Chemistry and Medicine, September 10-13, 2014, Bressanone, Italy, (poster presentation, P49, p13)
23. M. Sagnou, X. Alexiou, E.S. Kolotova, A.A. Shtil, A.A. Zeifman, I.J. Titov, O.V. Stroganov, V.V. Stroylov, I.V. Svitanok, F.N. Novikov, G.G. Chilov, "Design, synthesis and biological evaluation of P-glycoprotein inhibitors for modulation and prevention of multidrug resistance", International Conference Molecular Complexity in Modern Chemistry MCMC-2014, September 13-19, 2014, Moscow, Russia
24. B. Mavroidi, M. Pelecanou, M. Paravatou-Petsotas, M. Sagnou, C. Methenitis, "Complexes of Pt(II), Pd(II) and Cu(II) with benzothiazole derivative as potent anticancer agents", 9th International Conference of Anticancer Research, 6-10 October, 2014, Halkidiki, Greece (poster presentation).
25. M. Sagnou, C. Triantis, B. Mavroidi, A. Stouraitis, C. Kiritsis, M. Paravatou-Petsotas, I. Pirmettis, M. Papadopoulos, M. Pelecanou, "Development of Multimodal Agents of 2-(4'-Aminophenyl)benzothiazole for Tumor Diagnosis and Therapy", XXIII International Symposium on Medicinal Chemistry, EFMC-ISMIC 2014, September 7-11, 2014, Lisbon, Portugal, (poster presentation Y038, p430).
26. M. Sagnou, K. P. Mitsopoulou, G. Koliopoulos, M. Pelecanou, E.A. Couladouros, A. Michaelakis, Studies on the activity of curcuminoids and their derivatives against *Culex pipiens* larvae (*Diptera: Culicidae*) 14th Hellenic Entomology Conference, 22-25 Oct, 2013, Kavala, Greece.
27. A. Efthimiou, L. Efthimiou, D. Theofilopoulos, E. Tsilibary, M. Sagnou, M. Nasopoulou, E. Vavouraki, "Application of the NCSR Human bone allograft for the bone regeneration after cyst removal", 9th Congress of the Hellenic Biomaterial Society, 15-16/11, 2013, Crowne Plaza Hotel
28. Sagnou Marina, Mavroidi Barbara, Varvarigou Alexandra, Leondiadis Leondios, Pelecanou Maria, "Isatin derivatives as inhibitors of Ab aggregation", 16th Hellenic Pharmaceutical Conference, 31/5-6/6 2013, Tachnopolis, Gazi
29. Sagnou M., Fotiadou M., Koletsi M., Kotsopoulou, A., Sideris V. Giotakos O., «Evaluation of biological stress in mental disorder patients», 4th Hellenic Psychiatric Conference, Jun 2012, Grecotel, Killini, Ilias.
30. M. Sagnou, S. Kakabakos, Ch. Triantis, S. Xanthopoulos, A.D. Varvarigou "Preparation and Preclinical Evaluation of novel SPECT Tracers for P-glycoprotein (P-gp) Imaging in Brain Studies", 1st International Meeting of Medical Olympicus Association in Salonic, 23-25 September 2011 (2nd poster Prize winner)
31. B. Mavroidi, C. Methenitis, M. Sagnou, A. Philippopoulos, M. Pelecanou, S. Theocharis, "Complexes of Pd(II) and Pt(II) with benzothiazole derivatives as anticancer agents with combined activity", 4th European Conference on Chemistry for Life Sciences (4ECCLS), August 31 – September 3, 2011 Budapest, Hungary

32. B. Mavroidi, M. Sagnou, A. Philippopoulos, M. Pelecanou, C. Methenitis, «Complexes of Pt(II) and Pd(II) with benzothiazole derivatives as anticancer agents with combined activity», 12th Conference Medicinal Chemistry: Drug Discovery and Design April 12-15, 2011, Conference and Cultural Center University of Patras, Patras, Greece
33. M. Sagnou, D. Benaki, M. Paravatou-Petsotas, I. Pirmettis, M. Papadopoulos, M. Pelecanou, «“2+1” curcumin complexes with fac-[Re(CO)₃]+core» (2010). International Symposium on Technetium and other Radiometals in Chemistry and Medicine, September 8-11, 2010, Bressanone, Italy.
34. M. Sagnou, S. Tzanopoulou, R. Alberto, C. Raptopoulou, A. Terzis, I. Pirmettis, M. Papadopoulos, M. Pelecanou (2010) «Potential diagnostic imaging agents for Alzheimer’s disease.» 14th Hellenic Symposium of Medicinal Chemistry, April 23-25, Thessaloniki.
35. M. Sagnou, D. Benaki, E. Gourni, A. Kostopoulos, M. Pelecanou, D. Dickens, A. Owen, A. D. Varvarigou (2010) «The development of P-glycoprotein imaging probes as epilepsy diagnostic tools.» 14th Hellenic Symposium of Medicinal Chemistry, April 23-25, Thessaloniki.
36. M. Sagnou, S. Tzanopoulou, C. Raptopoulou, A. Terzis, I. Pirmettis, M. Papadopoulos, M. Pelecanou. (2010) «In vitro and in vivo evaluation of potential imaging agents for Alzheimer’s disease» Neuroscience Days of the Hellenic Society for Neuroscience, October 1-2, 2010, NCSR “DEMOKRITOS”, Athens.
37. Kostomoiri M., Fragkouli A., Sagnou M., Skaltsounis L., Pelecanou M., Tsilibary E., Tzinia A. «Oleuropein prevents the formation of extracellular amyloid β -peptide aggregates and leads to increased production of neuroprotective sAPP α », 2nd FEBS-MPST Advanced Lecture Course, Matrix Pathobiology, Signaling and Molecular Targets (2009).
38. S. Tzanopoulou, M. Sagnou, M. Paravatou-Petsotas, D. Lafkas, H. Kiaris, A.G. Papabasilou, E. S. Xanthopoulos, Gourni, P. Bouzioti, A. Varvarigou, G. Loudos, I. C. Pirmettis, M. Papadopoulos, M. Pelecanou., «Development of novel selective agents for imaging and therapy of breast cancer” 7th Hellenic Conference on cancer biomarkers and targeted therapies, 27 έως 29/11/2008, Crowne Plaza
39. 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, Greece.
40. S. Tzanopoulou, G. Patsis, M. Sagnou, I. Pirmettis, M. Papadopoulos, M. Pelecanou, “Synthesis and Characterization of M(I)(CO)₃(NNO) Complexes (M = Re, ^{99m}Tc) 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.
41. S. Tzanopoulou, G. Patsis, M. Sagnou, A. Panagiotopoulou, Paravatou-Petsotas M., Papadopoulos, I. Pirmettis, M. Papadopoulos, M. Pelecanou, «Complexes of 4-(aminophenyl)benzothiazole derivatives with technetium and rhenium and their evaluation as potential diagnostic and/or therapeutic agents», 12th Hellenic Symposium of Pharmaceutical Chemistry, Patra, 2006.
42. 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.
43. Visvardis EE, Piperakis SM, Sagnou MJ, Sophianopoulou V, Pataryas Th., Margaritis LH, «Analysis at the single cell level of the DNA repair capacity and induction of apoptosis in normal and

- leukemic human lymphocytes under oxidative DNA damage»; Silver Jubilee FEBS Meeting, Denmark, 1998.
44. 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.
 45. Piperakis SM, Visvardis EE, Sagnou MJ, Tassiou AM., «DNA damage in smokers' lymphocytes»; European Environmental Conference, Toulouse, 1997.

➤ BOOKS

- 1) 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.

➤ CONFERENCE PAPERS

1. Noel RL, Gorman SL, Batts AL, Tsakris DL, Jimenez DL, Pelecanou M, Sagnou ML, Konofagou E. Preliminary Evidence for the Combined Efficacy of Focused Ultrasound Blood-Brain Barrier Opening and Delivery of a Novel Anti-Amyloid Re Complex for Memory Improvement in a 3xTg-Alzheimer's Disease Mouse Model. *Alzheimers Dement.* 2025 Jan 9;20(Suppl 6):e090917. doi: 10.1002/alz.090917. PMID: PMC11712862.
2. Sofia-Areti Papadopoulos, Marina Sagnou, Dorothea Pergandi, "Biomimicry in Education: From plants to solar cells: Joint Educational activity between NCSR "DEMOKRITOS" and Doukas School", 2nd Hellenic Conference, with International participation, for the promotion of innovative education, 21 – 23 Oct 2016, TEI Larissas
3. Polyxeni Alexiou , Mariliza Vasiliadou, Fedor Novikov , Ilya Titov , Victor Stroylov , Alexander Shtil, Ekaterina Kolotova , Ghermes Chilov, Marina Sagnou, "Novel P-gp inhibitors based on natural product scaffolds as therapeutic agents for multidrug resistant (MDR) tumors", *Hellenic Journal of Nuclear Medicine* , 2014; 17(Suppl1): 85 - This paper has been awarded one of the three High Prizes in the 2nd International Medical Olympiad (Thessaloniki, Greece, October 18-20, 2013).
4. Vicky Katsidoni, Marilena Fotiadou, Marina Sagnou and George Panagis, Effects of curcumin on brain stimulation and the reward facilitating effect of morphine, *Behavioral Pharmacology*; Oct2013 Supplement, Vol. 24 Issue SA, pe45-e45, 1p
5. M. Sagnou, D. Benaki, M. Paravatou-Petsotas, I. Pirmettis, M. Papadopoulos, M. Pelecanou, "2+1 curcumin complexes with the fac-Re(CO)₃ core", *International Symposium on Technetium and other radiometals in Chemistry and Medicine, Nucl. Med. Biol.*, 37, No 6, 684, 2010 (Abs) *Technetium and other radiometals in Chemistry and Medicine*, U. Mazzi, W. Eckelman, W. Volkert eds, SGE Ditoriali Padova, 109-110, 2010.
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 (special issue), 434, Athens, Greece.

7. Tzanopoulou, S.; Patsis, G.; Sagnou, M.; Pirmettis, I.; Papadopoulos, M.; Pelecanou, M. Technetium, Rhenium and Other Metals in Chemistry and Nuclear Medicine; Mazzi, U., Ed. Italy, 2006; pp 103–104.

➤ **TALKS**

1. “Νέες τεχνικές απεικόνισης του αμυλοειδούς» 2ου Πανελλήνιου Συνεδρίου, Ιατρική Εταιρεία Μελέτης της Βιολογίας και Θεραπείας του Καρκίνου (Ι.Ε.Μ.ΒΙ.ΘΕ.Κ), 9 - 11 Φεβρουαρίου 2024 στο ξενοδοχείο Divani Caravel
2. Sofia-Areti Papadopoulou, Marina Sagnou, Dorothea Pergandi, “Biomimicry in Education: From plants to solar cells: Joint Educational activity between NCSR “DEMOKRITOS” and Doukas School”, 2nd Hellenic Conference, with International participation, for the promotion of innovative education, 21 – 23 Oct 2016, TEI Larissas
3. D. Xidaki, L. Tsalavoutas-Psarras, E. Bavouraki, M. Sagnou, E. C. Tsilibary, “Development and characterization of novel bone substitute material of bovine origin: studies on production modifications, 10th anniversary event of the Hellenic Biomaterial Society, 26-28 Nov 2015, NHFR.
4. M. Sagnou, M. Pelecanou “Curcumin and Isatin: two exciting natural products on new mission” IXth Joint Meeting in Medicinal Chemistry, June 7-10, 2015, Athens, Greece.
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. (2010) «Biological evaluation of Re and 99mTc complexes of 2-(4'-aminophenyl) benzothiazole as breast cancer radiopharmaceuticals» 14th Hellenic Symposium of Medicinal Chemistry, April 23-25, Thessaloniki.
6. M. Sagnou, M. Fotiadou, M. Koletsi, V. Sideris, O. Giotakos «Evaluation of oxidative stress in mental disorders”, 17th congress of Psychosocial care of the Military, 14/12/2012, Πολεμικό Μουσείο, Αθήνα.
7. «Osteophilic bisphosphonic radiopharmaceuticals for diagnosis and therapy. 14th seminar spinal cord biomechanics, Hellenic Association of Orthopaedic Surgery and Traumatology, 05-07 Dec 2008



TEACHING-EDUCATIONAL ACTIVITIES

Jan 24-current	Deree-The American College of Greece School of Liberal Arts – Part time lecturer in General Chemistry, Organic Chemistry
Oct 18	Interdepartmental postgraduate course on “Applied Biochemistry: Clinical Chemistry, Biotechnology, Pharmaceutical Products Evaluation” (School of Chemistry, Univ. of Patras and IBA, NCSR “Demokritos”).

	Teaching part of the module of Molecular Pharmacology, and Specific Topics of interest in Drug Development.
Sep 11 – Dec 12	CityU College – Centre for after-Lyceum Education Department of Psychology – University of Seattle Courses taught: Neuropsychology, Psychopharmacology, Psychology of Addiction. Supervision of 2 final year projects students. Initiator and member of the organizing committee for the 1st City Unity College Psychology Student Conference (May 2012).
Sep 98 – Dec 00	<i>IEK «Ippokratios» - Department of Psychology /Logotherapy</i> Courses taught: Biological Chemistry, Structure and functions of the nervous system, Psychopharmacology
Σεπ 97 – May 98	<i>IEK «Korelko» - Ellanion University of Portsmouth, BSc Sports Studies.</i> Courses taught: Biological Chemistry, From the cell to the body function, English for Sciences, Basic Chemistry and Biology

Placements-Internships – final year projects

- May 24 - July 24 Erika Lego – Internship in collaboration with Anacalypsis Therapeutics and Biomedical Research Foundation of the Academy of Athens – «Synthesis of unsymmetrical analogs of curcumin and their potential biological applications” – Deree, The American College of Greece.
- May 23 – Sep 23 Vasiliki Manakou – Internship “Novel unsymmetrical monocarbonyl curcumin derivatives as autophagy inducers”- Kenyon College-USA
- Jun 23 – Sep 23 Stella Timotheatou – Internship “Monocarbonyl curcumin derivatives as anticancer photosensitisers” – University of Ioannina, School of Chemistry.
- Jun 21 – Apr 22 Panayota Pantiora – Internship/Final year project “Potent Inhibitors against Human Glutathione Transferase P1-1” – Agricultural University of Athens.
- Jun 21 – Oct 21 Elina Kostaloupi – Internship - «Synthesis trifluoromethyl- Monocarbonyl curcumin derivatives» - University of Patras, School of Chemistry
- Jun 18 – Jun 19 Orestis Liatsis-Douvitsas– Final year project: «Monocarbonyl curcumin derivatives» - University of Patras, School of Pharmacy
- Jun 18 – Oct 18 Merlin Chatoupi – Final year project «Characterisation of Sericin Bombyx mori and its effect on Amyloid Beta Peptide 1-42» - TALLINN UNIVERSITY, School of biological sciences
- Sep 2017 - Sep 2018 Maria Arfara – final year project «Synthesis and evaluation of novel curcumin derivatives resulting from the BF₃ etherate reaction», National Technical University of Athens
- Sep 2016 – Sep 2017 Konstantinos-Thomas Kazatzis - final year project “Comparative study of photosensitive curcumin derivatives using microscopic and fluorometric methodologies” National Technical University of Athens
- Jul 2012 – Oct 2012- Μαρία Maria Elisavet Vasiliadou – final year project "Synthesis of curcumin derivatives". University of Thessalia – Dep Biochemistry and Biotechnology

MSc supervision and Member of the three-membered committee for the following thesis:

- 1) Anna Pekou – AUTH, School of Chemistry (Biochemistry) «Study of the biological activity of novel polyphenol copper complexes »
February 2020
- 2) Maria Karagkiaouri - AUTH, School of Chemistry (Biochemistry) «Study of the interaction of a silver complex with DNA metabolism enzymes and bacterial biofilm. Potential antimicrobial and antioxidant activity of propolis enriched polymers »
April 2020
- 3) Georgia Nigianni - University of Patras, School of Chemistry «Synthesis of monocarbonyl curcumin derivatives and study of their biological activity as potential inhibitors of AD A β -amyloid polymerization»
September 2020
- 4) Victoria Tsalouhidou- AUTH, School of Chemistry (Biochemistry) «Study of a curcumin-vanadium complex as a potential phosphatase inhibitor»
October 2019
- 5) Valentinos Sofocleous – interdepartmental postgraduate course on “rhinology-rhinology”- Dimocritus University of Thraki «The role of *Staphylococcus aureus* and its biofilms to the etiology and pathology of sinusitis»
- 6) Ioanna Roupa- Chemist NUA «Synthesis and characterization of Cu(II) complexes of a curcumin derivative. Interaction studies with CT- DNA and in vitro evaluation of its biological activity»
May 2015
- 7) Despoina Xidaki - Chemist NUA «Study of hydroxyapatite as a carrier of bioactive molecules»
September 2014

PhDs – Member of the seven-membered committee

- 1) Barbara Mavroidi – Chemist, MSc.
Title: «Synthesis and characterization of transition metal complexes with benzothiazole derivatives. Study of the complex interaction with nucleotides. In vitro investigation of their biological activity», Completed and presented successfully in 2016

Jun 18 - Jun 23	Laboratory Summer School-IBA NCSR “Demokritos” Two weeks of hands-on practical work for Lyceum pupils
Jul 15	NCSR “DEMOKRITOS”, Summer School 2015 «Curcumin and Isatin: from traditional medicinal recipes to contemporary therapeutic applications», 10/7/2015
Jul 14	NCSR “DEMOKRITOS”, Summer School 2015 «Curcumin and isatin: from nature to the clinical practice »
Jul 11	NCSR “DEMOKRITOS”, Summer School 2011 « A bit of carry every day keeps the doctor away.....»

Jul 08	NCSR "DEMOKRITOS", Summer School 2008 «Imaging of a disease»
Dec 06 & Oct 07	NCSR "DEMOKRITOS", 1-day event for schools: «Let's do "Demokritos"for live Experiment» Title: «Working towards drug development»

➤ **SCHOLARSHIPS**

- 1993-1997 – the Bodossakis foundation scholarship for Postgraduate studies abroad
- 1995-1997 - Cancer Research Campaign – lab consumables/travel expenses

➤ **JOURNAL REVIEWER**

- ◆ Letters in Drug Design & Discovery
- ◆ Bioorganic Medicinal Chemistry Letters
- ◆ PLOS ONE
- ◆ Pharmaceuticals, Molecules, Catalyst, Inorganics, Int J Mol Struct, Foods, Cancers
- ◆ Member of the board of reviewers in Pharmaceuticals, MDPI
- ◆ Academic Editor for the Special Issue "Novel Approaches for Asymmetric Synthesis" in Symmetry, MDPI.

➤ **OTHER ACTIVITIES IN IB-A/NCSR "D"**

1. Responsible for the operation of the confocal microscopy unit (2001-current)
2. Responsible for organizing the institute graduates' seminars (2009- 2012)
3. Deputy for the institute educational affairs (2009-2019)
4. Responsible for IB-A promotion and outreach activities (2012-2015)
5. Responsible for the promotion of human bone allograft (2012-2015)
6. Member of the team for the preparation, follow up and final completion of the Institutional funding program KRIPIS I (Scien. Res. – E. C Tsilibary, Members- Sagnou, Pratsinis, 2012-2015)
7. Member of the team for the preparation of the funding program SIEMENS (2014)
8. Member of the team for the preparation of NCSR D business plan (2012)
9. Member of the team for the preparation of the funding program CLUSTERS (Tsilibary, Sagnou, 2012)
10. Member of the team for the preparation of the Institutional funding program KRIPIS II (Scien. Res.- IB-A Director, Members- Sagnou, Pratsinis, Kletsas, Konstantopoulou, Drossopoulou, 2016)

11. Member of the team for the preparation of the Institutional funding program BIOIMAGING-GR within the funding scheme of Infrastructures – Hellenic roadmap (Scien. Res. –, IB-A Director, Members- Sagnou, Pratsinis, Labropoulou 2016)

➤ **OTHER ACTIVITIES OUT OF IB-A/NCSR "D"**

- Founding member of the spin-off company STEP@BIOMATERIALS – TEPA «Lefkippos» for the development of novel biomaterials, of natural or synthetic origin for dental and orthopaedic applications (2015)
- Member of the team/spin off-company- Eye bank "Demokritos" - «Grigoris Georgariou», winners of the 1st prize in the 2nd competition for innovation in health, SFEE Innovation Project 2.0 in collaboration with Industry Disruptors – Game Changers (2014)

➤ **ADMINISTRATIVE DUTIES IN NCSR "D"**

1. Member of the election committee for new NCSR personnel for cleaning and security (2011)
2. Member of the public relationships and promotion team (2013) [See next paragraph]
3. Member of the committee for Administrative Affairs and Human resource (2016)

➤ **ACTIVITIES FOR PUBLIC RELATIONSHIP AND OUTREACH IB-A/NCSR "D"**

Since 2012 there has been a central organization from the NCSR President's office to form a Department of Organisation and Productivity as an interface with all the Institute representatives for communication, promotion and public affairs, a place I was assigned with beginning of 2013. Some of the activities IB-A was actively involved and represented by me are listed below:

- The "Horizon 2020" kick-off event, under the auspice of the President of the Hellenic Democracy, within the framework of the Greek Presidency in the European Committee, NCSR «Demokritos», 10 Jan 2014 – During this event the opening of the "Innovation and Technology Exhibition" of the NCSR "Demokritos" took place which I was responsible to organize and present the IB-A exhibits.
- International event on the "Strategies of development «Europe 2020»: Enhancement of Business Collaborations in Greece", B2B event, 12 Mar 2013
- Assistance with the organization of 1st Hellenic forum for science, technology and Innovation, NCSR "Demokritos" (17-19.7.2013)
- Organization of 1-day congress entitled: «Generic Pharmaceuticals: from R&D to society» with the attendance of representatives from the Hellenic Pharma Industry within the framework of 2nd Hellenic forum for science, technology and Innovation, NCSR "Demokritos" (30.6-4.7.2014)

- Organization of 1-day congress entitled: «Medicine for the future» (2/7/2015) within the framework of the 3rd Hellenic forum for science, technology and Innovation, NCSR “Demokritos” (29.6-3.7.2015)
 - 78th Thessaloniki International Exhibition (7-15/9/2013)
 - 79th Thessaloniki International Exhibition (6-14 /9/2014)
 - INNOVATION FORUM 2014, Hilton Athens, Αθήνα, (19-21 / 12/ 2014)
- i.* Another novel activity which was established and developed since 2012 is the organisation and presentation of interactive activities, hands-on experiments and games for children and teens. These activities were inspired, developed and presented within the framework of “Researchers’ Night” 2013, 2014, 2105, 2016, for the pre-events of RN 2015, 2016, the Athens Science Festival 2015,2016 and very recently the “Mind the Lab” event (03/02/2017). With excess of love, enthusiasm and deep awareness of the responsibility and the need to transfer to the public, and especially the younger ages, the love for creativity, inspiration and innovation through research and science. Some of the most indicative activities are listed bellow:
- «When iron leaves..... Here comes the copper» In a simple and creative way the young chemists will perform reactions between copper sulphate and iron to visualize the metallic iron object to be covered by the “reddish” copper!!!!
 - «Drawing with chemistry» - a series of single or double displacement reactions result in the formation of coloured precipitates. When these reactions occur on a canvas then.....it is art!!



- Tasty drops – when chemistry meets gastronomy.....!!! This tasty experimental procedure is based on the property of sodium alginate to form a thin gelatinous sphere around any calcium atom entrapping anything dissolve in it. In that way, the young researchers will make small alginate spheres of juice with this simple chemical reaction.
- «Make a small medallion formMILK!!!» - what happens when milk is treated with vinegar???.....it becomes rock-hard!!!!
- «Make your own bouncy ball!» From monomers....to polymers.....and finally the bouncy balls!!! From this hands-on practical the polymerization reactions become more.....spherical!!!

- Hung up.....Your DNA! – With paper all other material, the young scientists will make the DNA model, especially adapted to present the basic features of the molecules which holds the secrets of.....LIFE!!
- QUIZ: How well do you know yourBrain??? Discover what the contribution of neuroscience is in our understanding of the brain function, and the mechanism of action of drugs of abuse through a quiz game!!!
- «Guess your classmate's thoughts». We invite and challenge groups of pupils to guess thescientific thoughts of 100 classmates on Biology, Chemistry, Physics. It is a game which reveals that sometimes knowledge, definitions and concepts are.....a personal matter!!!
- How to blow up a balloon with the help of chemistry! – the reaction of sodium carbonate with vinegar to release carbon dioxide and blow up the balloon
- Rainbow on a paper! – paper chromatography of marker pen shapes
- Scented Bath mineral balls to make bubbles in your bath and get to know some natural products as chemical compounds.

Aiming in communicating and disseminating the scientific research the following events were organized and supervised:

- Participation in the organization of a Workshop for journalists for science regarding: «Nanotechnology: Advances, challenges, benefits and potential risks» 3 Dec 2015 – Exhibition area of NCSR “Demokritos”
- Organization of workshop-seminar for the professional development of Secondary School Teachers, 25 - 26 Apr 2015 – under the guidance and the collaboration of the **European Molecular Biology Laboratory (EMBL)**, and more specifically the European Laboratory for Learning Life Sciences, represented by Dr. Philipp Gebhardt, and Dr. Eva Haas with the contribution also of the ELLS visiting Teacher, from the Directorate of Secondary Education of Piraeus Ms Vasiliki Kioupi.

Last but not least, the following list summarize activities coordinated by me towards the promotion of Human Bone allografts of the NCSR “Demokritos”.

- Participation in “ITI Congress Greece 2012: Investing in knowledge and future clinical potential”
- Participation in the 33rd Panhellenic Dental Congress, 22-24 Nov 2013, DIVANI CARAVEL hotel Athens
- Participation in the 34th Panhellenic Dental Congress, 14-16 Nov 2014, Grand Hotel Palace, Thessaloniki
- Participation in the 35th Panhellenic Dental Congress, 9 -11 Oct 2015, Rodos Palace Hotel, Rodos

➤ **FUNDING PROPOSALS**

- i. **Sponsorship 2.000 €** from Prof. G. Paxinos, for the research study entitled «Investigation in the potential reduction or reversal of the morphin reward action by the natural product curcumin and its derivatives in Rat experimental models» 2012-2013.
- ii. FP7-ERA.Net RUS Linking Russia to the ERA: Coordination of MS/AC S&T programmes towards and with Russia-Innovation projects-2011
Title: *Development of Novel Natural Product-based Imaging Probes for Early Diagnosis and Therapeutic Application in Multi-Drug Resistant Tumors (PITHEAS)*
Coordinator: Dr. Sagnou. **Duration:** 2 years. **Budget:** 408.800 €
APPROVED
3. FP7-COOPERATION-COLLABORATIVE PROJECT-2008
Title: *EUropean Research initiative to develop Imaging Probes for early In-vivo Diagnosis and Evaluation of response to therapeutic Substances (EURIPIDES)*
Coordinator: Dr. M.J. Koepp. **Duration:** 4 years. **Budget:** 6.995.000 €
APPROVED
4. Greek Ministry of Education, Research and Religious Affairs/ The Secretary General for Research and Technology «COOPERATION 2009»
Title: Development and Screening of Novel beta Amyloid Peptide Inhibitors for Alzheimer's Disease
Coordinator: Dr. Tsarbopoulos. **Duration:** 2 years. **Budget:** 1.943.500,00 €
APPROVED
5. The Latsis Foundation – Scientific Studies 2010
Title: "Development of a new diagnostic agent for Alzheimer disease"
Coordinator Dr. Pelecanou. **Duration:** 1 year. **Budget:** 12.000 €
APPROVED
6. Greek Ministry of Education, Research and Religious Affairs/ The Secretary General for Research and Technology «THALIS»
Title: BIOSYNTHESIS AND GENETIC SELECTION OF CYCLIC PEPTIDES WITH POTENTIAL THERAPEUTIC EFFECTS AGAINST ALZHEIMER'S DISEASE: INHIBITORS OF AB AGGREGATION (**CYCLIPAD**).
Coordinator: Dr. Gonos. **Duration:** 5 years. **Budget:** 520.000€
APPROVED
7. Greek Ministry of Education, Research and Religious Affairs/ The Secretary General for Research and Technology «THALIS»
Title: New Osteophilic Radiopharmaceutical Complexes of 99m Tc and 186/188 Re for imaging and/or therapy of bone cancer and inflammation (PHOSPHOBONE).
Coordinator: Dr. Efstathopoulos. **Duration:** 5 years. **Budget:** 520.000 €
NOT APPROVED
8. Greek Ministry of Education, Research and Religious Affairs/ The Secretary General for Research and Technology «THALIS»
Title: Synthesis of pyrroloquinoline derivatives and pyrroloquinilone neucleosides with antiviral and anticancer activity.
Coordinator: Dr. Komiotis. **Duration:** 5 years. **Budget:** 520.000 €

NOT APPROVED

9. The Latsis Foundation – Scientific Studies 2011

Title: Studies on the multimodal activity of curcumin in obesity, infertility and diabetes

Coordinator: Dr. Diamandi-Kandaraki. **Duration:** 1 year. **Budget:** 12.000 €

NOT APPROVED

10. Greek Ministry of Education, Research and Religious Affairs/ The Secretary General for Research and Technology – BILATERAL RESEARCH COLLABORATION 2011 – 2013: GREEK-CZECH REPUBLIC

Title: New metallopharmaceutics of ruthenium(II), (III) based on the curcumin structure. DNA interactions, cytotoxicity evaluation and cellular pharmacology studies

Coordinator: Dr. Phillipopoulos. **Duration:** 2 years. **Budget:** 15.000 €

NOT APPROVED

11. Greek Ministry of Education, Research and Religious Affairs/ The Secretary General for Research and Technology - BILATERAL RESEARCH COLLABORATION 2011 – 2013: GREEK-ROUMANIA

Title: New targeted diagnostic tools of Rhenium and Technetium with dual imaging mode

Coordinator: Dr. Pelecanou. **Duration:** 2 years. **Budget:** 15.000 €

NOT APPROVED

12. Empirikion Foundation – Research Funding programs 2010

Title: Synthesis, characterization and biological evaluation of novel radioiodinated tracers for multidrug resistance imaging in pathological models

Coordinator: Dr. Varvarigou. **Duration:** 2 years. **Budget:** 12.000 €

APPROVED

13. Empirikion Foundation – Research Funding programs 2010

Title: Development of novel diagnosticagents of Rhenium and Technetium with dual imaging mode

Coordinator: Dr. Pelecanou. **Duration:** 2 years. **Budget:** 12.500 €

APPROVED

14. Hellenic Democracy- Ministry of Health and Social Care –Central council for biomedical research

Title: New Osteophilic Radiopharmaceutical Complexes of 99m Tc and 186/188 Re for imaging and/or therapy of bone inflammation

Coordinator: Dr. Efstathopoulos. **Duration:** 2 years. **Budget:** 20.000 €

NOT APPROVED

15. Greek Ministry of Education, Research and Religious Affairs/ The Secretary General for Research and Technology «HERAKLITOS II »

Title: Synthesis and characterization of Ru (II) complexes. In vitro biological evaluation »

Coordinator: Dr. Methenitis. **Duration:** 3 years. **Budget:** 45.000 €

NOT APPROVED

16. EURONANOMED II - Joint Transnational Call for Proposals (2015) for “EUROPEAN INNOVATIVE RESEARCH & TECHNOLOGICAL DEVELOPMENT PROJECTS IN NANOMEDICINE”

Title: «Llpolpatin™ and Liposomal CURcumin derivatives to taRGet Ovarian cancer Stem cells»

Coordinator: Dr. Sagnou. **Duration:** 2 years. **Budget:** 552.500€

NOT APPROVED

17. Horizon 2020 - Call: H2020-SEAC-2014-1 - Topic: SEAC-1-2014 - Type of action: RIA - Proposal
Title: KIDSI (KIDS IN SCIENCE INNOVATION)
Coordinator: FUNDACION TECNALIA RESEARCH & INNOVATION. **Duration:** 4 years. **Budget:** 1.729.222€
NOT APPROVED
18. Stavros Niarchos Foundation - Industrial Fellowship Program.
Title: "Nature-loaded" Targeted Nanoparticles for Prostate Cancer Therapy"
Coordinator: Dr. M. Sagnou, **Duration:** 36 months. **Budget:** 78,000 €
APPROVED
19. ESPA – Support for Researchers with emphasis on the young researchers- Part B'
Title: Monocarbonyl curcumin analogues (MAK) with potential larvicidal properties against the common mosquito, *Culex pipiens*. (Cul-MAK)
Coordinator: Dr. A. Michaelakis, **Duration:** 15 months. **Budget:** 50,000€
APPROVED
20. ELIDEK- For the development of PostDoctoral Researchers
Title: NANOCARRIER COENCAPSULATION OF CHEMOTHERAPEUTIC AGENTS AND FLAVONOIDS FOR TARGETED DELIVERY: AN INTEGRATED APPROACH TO ENHANCE DRUG EFFICACY AND REDUCE TOXICITY IN LUNG CANCER
Coordinator: E. Halevas, **Duration:** 30 months. **Budget:** 199,883 €
NOT APPROVED
21. Greek Ministry of Education, Research and Religious Affairs/ The Secretary General for Research and Technology " Search-Innovate-Create"
Title: Development of an enriched iatro-technological product against androgenic alopecia
Coordinator: Biohellenika SA, **Scientific Coordinator:** Dr. M. Sagnou, **Duration:** 30 months. **Budget:** 844.168,95 €
NOT APPROVED
22. Greek Ministry of Education, Research and Religious Affairs/ The Secretary General for Research and Technology " Search-Innovate-Create"
Title: Development of a novel iatrotechnological product for effective wound healing
Coordinator: Biohellenika SA, **Scientific Coordinator:** Biohellenika SA, **Duration:** 30 months. **Budget:** 844.168,95 €
APPROVED
23. Greek Ministry of Education, Research and Religious Affairs/ The Secretary General for Research and Technology " Search-Innovate-Create"
Title: Development of novel iatrotechnological product based on the far infrared radiation and bioceramics (FIR-bioceramics) for hair regeneration
Coordinator: Biohellenika SA, **Scientific Coordinator:** Dr. M. Sagnou, **Duration:** 30 months. **Budget:** 505.438,95 €
NOT APPROVED

24. Greek Ministry of Education, Research and Religious Affairs/ The Secretary General for Research and Technology “ Search-Innovate-Create”

Title: DEVELOPMENT OF TISSUE-ENGINEERED NATURAL POLYMER-BASED BIOMEMBRANES FOR THE RECONSTRUCTION OF MINERALIZED ORAL TISSUES

Coordinator: STEP@biomaterials SA, **Scientific Coordinator:** Dr. M. Chatzinikolaidou, **Duration:** 30 months. **Budget:** 809.200,00 €

NOT APPROVED

25. Johnson & Johnson Innovation LLC Improving Detection of AL Amyloidosis (IDEA) QuickFire Challenge (2022)

Title: Novel ^{99m}Tc complexes as potential AL amyloidosis tracers **Coordinator** Dr. E. Kastiris **Scientific**

Coordinator: Dr. M. Sagnou, **Duration:** 12 months. **Budget:** 220.000 €

APPROVED

26. Icelandic Cancer Society- Science Fund (2021)

Title: The effect of the new curcumin derivative C66 on cardiomyopathy caused by doxorubicin

Coordinator Dr. G. Kararigas **Scientific Coordinator:** Dr. M. Sagnou, **Duration:** 12 months. **Budget:** ISK 10 million

APPROVED