

ΒΙΟΓΡΑΦΙΚΟ ΣΗΜΕΙΩΜΑ

ΠΡΟΣΩΠΙΚΑ ΣΤΟΙΧΕΙΑ

Όνοματεπώνυμο: Διονυσία Παπαγιαννοπούλου, Αναπληρώτρια Καθηγήτρια
Διεύθυνση: Αριστοτέλειο Πανεπιστήμιο Θεσσαλονίκης, Τμήμα Φαρμακευτικής,
εργασίας: Εργαστήριο Φαρμακευτικής Χημείας, 4^{ος} όροφος, γραφείο 408^α, 423^α, 541 24
Θεσσαλονίκη.
Τηλέφωνα: 2310-998680
e-mail: papagd@pharm.auth.gr

ΣΠΟΥΔΕΣ

1996: Πτυχίο Χημείας, Εθνικό και Καποδιστριακό Πανεπιστήμιο Αθηνών
1996-2001: Διδακτορική Διατριβή στην Ραδιοφαρμακευτική Χημεία
Ινστιτούτο Ραδιοϊσοτόπων και Ραδιοδιαγνωστικών Προϊόντων, Ε.Κ.Ε.Φ.Ε.
“Δημόκριτος” (διδακτορικός υπότροφος) και Τμήμα Χημείας Ε.Κ.Π.Α.

ΜΕΤΕΚΠΑΙΔΕΥΣΗ-ΠΡΟΫΠΗΡΕΣΙΑ

1999-2000: Exchange Scholar
University of Missouri-Columbia, Department of Chemistry
2001-2003: Μεταδιδακτορικός Συνεργάτης
University of Missouri-Columbia, Department of Chemistry, Radiochemistry Lab
2003-2005: Επιστημονικός Συνεργάτης
Harvard Medical School, Department of Radiology, Laboratory of Experimental
Nuclear Medicine
2005-2012: Λέκτορας, Τμήμα Φαρμακευτικής, Α.Π.Θ.
Γνωστικό αντικείμενο «Φαρμακοχημεία με ιδιαίτερη έμφαση στη
Ραδιοφαρμακευτική Χημεία»
2012-σήμερα: Επίκουρη Καθηγήτρια, Τμήμα Φαρμακευτικής, Α.Π.Θ. (μονιμοποίηση 2016)
Γνωστικό αντικείμενο «Φαρμακοχημεία με ιδιαίτερη έμφαση στη
Ραδιοφαρμακευτική Χημεία»

ΣΕΜΙΝΑΡΙΑ ΕΙΔΙΚΕΥΣΗΣ

- 1) Σεμινάριο “Modern Imaging Technology: Basic Science in Medical Applications”,
Society of Nuclear Medicine, Los Angeles, USA, 2004.
- 2) Ευρωπαϊκό Πρόγραμμα Εξειδίκευσης:

Κύκλος Μαθημάτων I (Τμήμα Φαρμακευτικής, Πανεπιστήμιο της Λουμπλιάνα, Σλοβενία 2006): “Pharmacy I: Drug Legislation, Quality Control, Pharmaceutical Technology”.

Κύκλος Μαθημάτων II (Ινστιτούτο Φαρμακευτικών Επιστημών, ΕΤΗ- Ζυρίχη, Ελβετία, 2008): Radiopharmaceutical Chemistry.

Κύκλος Μαθημάτων III (Τμήμα Φαρμακευτικής, Πανεπιστήμιο της Λειψίας, Γερμανία, 2008): Pharmacy II: Pharmacology, Nuclear Medicine, Statistical Quality Control.

ΜΕΛΟΣ ΣΕ ΕΠΙΣΤΗΜΟΝΙΚΕΣ ΕΤΑΙΡΕΙΕΣ

Association of Greek Chemists; Hellenic society of Medicinal Chemistry; American Chemical Society; Society of Radiopharmaceutical Sciences

ΣΥΜΜΕΤΟΧΗ ΣΕ ΔΙΟΡΓΑΝΩΣΗ ΣΥΝΕΔΡΙΩΝ

- As member/secretary of the organizing committee of the 10th (May 25-26, 2007), 11th (May 23-24, 2009) and 12th (May 20-21, 2011) conferences on Advanced Pharmacochimistry in Thessaloniki, Greece.
- Session chairperson in the 2nd conference of the Alexandrian Technological Training Institute, Thessaloniki, November, 8-9, 2008.
- Session chairperson in the International Symposium on Radiopharmaceutical Sciences, University of Missouri-Columbia, USA, May 25-31, 2015.
- Session chairperson in the 17th Hellenic Pharmaceutical Conference, Athens, Greece, 8-11 October 2015.
- As member of the organizing committee and chairperson of the 17th Symposium on Medicinal Chemistry, Thessaloniki, Greece, June 1-3, 2017.

ΚΡΙΤΗΣ ΣΕ ΠΕΡΙΟΔΙΚΑ/ ΔΙΕΘΝΗ ΣΥΝΕΔΡΙΑ ΚΑΙ ΜΕΛΟΣ ΣΥΜΒΟΥΛΕΥΤΙΚΗΣ ΕΠΙΤΡΟΠΗΣ

Journal of Nuclear Medicine; Inorganic Chemistry; Journal of Medicinal Chemistry; European Journal of Medicinal Chemistry; Medicinal Chemistry; Radiochimica Acta; Molecules; Pharmaceutical Development and Technology; Journal of Pharmaceutical Sciences; Bioorganic and Medicinal Chemistry; Journal of Labelled Compounds and Radiopharmaceuticals (member of the advisory board since 2018); Molecular Pharmaceutics; Cancer Investigation; Abstract Reviewer of the 21st (ISRS 2015) and 22nd (ISRS 2017) International Symposia on Radiopharmaceutical Sciences

ΟΜΙΛΙΕΣ

1. “Ραδιοφάρμακα για τους 5-HT_{1A} υποδοχείς της σεροτονίνης. Σύνθεση νέου μικτού συμπλόκου του τύπου [ReO(SNS)(S)]”, 8ο Πανελλήνιο Συνέδριο Φαρμακοχημείας, Αθήνα 1997.
2. “^{99m}Tc labeled MPP analogs: candidates for imaging 5-HT_{1A} for receptors in brain”, Ημερίδα Φαρμακοχημείας, Φαρμακοχημεία, Ανακάλυψη Νέων Φαρμάκων και ποιότητας Ζωής, Θεσσαλονίκη, 1998.
3. “*Novel ^{99m}TcO[SNS]/[S] complexes for imaging the 5-HT_{1A} CNS Receptors*”, Dynamite Seminar Series, Chemistry Department, University of Missouri-Columbia, 2000. “Synthesis and characterization of novel ^{99m}Tc tricarbonyl complexes with amine ligands”, 37th Regional American Chemical Society Meeting, Midwest Section, University of Kansas-Lawrence, October 2002.
4. “*Ανάπτυξη ραδιοφαρμακευτικών ενώσεων του ^{99m}Tc για την απεικόνιση των α₄β₂ νικοτινικών νευροϋποδοχέων: Σύνθεση επισημασμένων αναλόγων της (±)-νικοτίνης και της A-*

84543 με την ομάδα $fac-[^{99m}Tc(CO)_3]$ ”, Τμήμα Φαρμακευτικής, ΑΠΘ, «Σεμινάρια Φαρμακολογίας» 2006.

5. “*Design, synthesis and preliminary biological evaluation of new technetium and rhenium $[^{99m}Tc/^{188}Re(NSO)(CO)_3]$ complexes with potential radiopharmaceutical applications*” Institute of Nuclear Chemistry, Warsaw, Poland, 2007.

6. «*Παρασκευή, Ποιοτικός Έλεγχος και Χρήση Κλασικών Ραδιοφαρμάκων*» στους ειδικευόμενους πυρηνικούς ιατρούς στο Γ’ Εργαστήριο Πυρηνικής Ιατρικής της Ιατρικής Σχολής του Νοσ. Παπαγεωργίου, 2008.

7. «*Διαγνωστικά Ραδιοφάρμακα με ευρεία εφαρμογή στη Πυρηνική Ιατρική*» στο 2^ο Συνέδριο Αλεξάνδρειου Τεχνολογικού Εκπαιδευτικού Ιδρύματος Θεσσαλονίκης, 9 Νοεμβρίου 2008.

8. «*Σπουδές στην Φαρμακευτική*» Ημερίδα του Γραφείου Διασύνδεσης, Α.Π.Θ., 2010.

9. “*Bioactive $fac-[^{99m}Tc/Re(CO)_3]$ Chelates*”, 2nd International Symposium on Functional Metal Complexes that Bind to Biomolecules, Third Whole Action Meeting of the COST Action CM1105, Zurich, Switzerland, 22-23 August 2014.

10. “*Ανάπτυξη στοχευμένων ραδιοφαρμάκων με καρβονυλικές ενώσεις του τεχνητίου-99m*”, 2^ο Συνέδριο Φαρμακευτικών Επιστημών «Από την έρευνα στην κοινωνία», 09-11 Οκτωβρίου 2014, Πανεπιστήμιο Πατρών.

11. “*Νεότερα Διαγνωστικά και Θεραπευτικά Ραδιοφάρμακα*”, 1^ο Πανελλήνιο Συνέδριο Εφαρμοσμένης Φαρμακευτικής 25&26 Απριλίου 2015 Θεσσαλονίκη.

12. “*Rhenium and technetium-99m quinolone complexes: synthesis and biological evaluation*” Working group 3 Meeting of the COST Action CM1105, Warsaw, Poland, 1-2 September 2015.

13. “*Ραδιοφάρμακα: διαγνωστικές και θεραπευτικές προσεγγίσεις*”, 17^ο Πανελλήνιο Φαρμακευτικό Συνέδριο, 08-11 Οκτωβρίου 2015, Πολεμικό Μουσείο-Αθήνα.

14. “*Development of Technetium-99m Chelates as Potential Tumor Imaging Agents*” 17th Hellenic Symposium on Medicinal Chemistry, 1-3 June 2017, Thessaloniki.

15. “*Ραδιοφαρμακευτικές Εφαρμογές στην Πυρηνική Ογκολογία*”, 4^ο Πανελλήνιο Συνέδριο Εφαρμοσμένης Φαρμακευτικής 6 Μαΐου 2018, Θεσσαλονίκη.

16. “*Ραδιοϊχνηθέτες για τη μοριακή απεικόνιση του εγκεφάλου*”, 7^ο Πανελλήνιο Συνέδριο Εφαρμοσμένης Φαρμακευτικής 23 Μαΐου 2021, Θεσσαλονίκη.

17. “*Technetium-99m tracers towards the development of molecular imaging agents*”, 12th Joint Meeting on Medicinal Chemistry, November 2022, Invited Talk

ΕΠΙΣΤΗΜΟΝΙΚΑ ΕΝΔΙΑΦΕΡΟΝΤΑ

Τα ερευνητικά ενδιαφέροντα, εστιάζονται κυρίως στον σχεδιασμό, την σύνθεση και αξιολόγηση ραδιοεπισημασμένων βιοδραστικών μορίων (μικρού μοριακού βάρους, μακρομορίων) για την ανάπτυξη διαγνωστικών και θεραπευτικών ραδιοφαρμάκων. Έμφαση δίνεται στην ραδιοφαρμακευτική χημεία του τεχνητίου-99m, που περιλαμβάνει και την ανάπτυξη νέων διλειτουργικών συναρμοτών. Επιπλέον, προσφάτως ερευνητικές προσπάθειες εστιάζουν στην ανάπτυξη και αξιολόγηση μεταλλικών βιοδραστικών ενώσεων που παρουσιάζουν φαρμακευτικό ενδιαφέρον.

Οι τεχνικές που χρησιμοποιούνται είναι:

- Οργανική σύνθεση.
- Ανόργανη σύνθεση.
- Χρήση αναλυτικών μεθόδων χαρακτηρισμού δομής: IR, NMR, Υγρή Χρωματογραφία Υψηλής Απόδοσης.
- Επισήμανση μικρών και μεγάλων μορίων με το ραδιονουκλίδιο γ ακτινοβολίας ^{99m}Tc .

Ποιοτικός Έλεγχος- Ραδιοχημικές μελέτες (HPLC, SE-HPLC, TLC, PC).

- *In vitro* πειράματα σε κύτταρα.
- *In vivo* πειράματα σε μικρά πειραματόζωα.

ΔΗΜΟΣΙΕΥΣΕΙΣ ΕΠΙΣΤΗΜΟΝΙΚΩΝ ΕΡΓΑΣΙΩΝ

A. Δημοσιεύσεις σε επιστημονικά περιοδικά με κριτή

1. G. Tzovas, N. Papadimitriou, E. Angelakou, G. Bompola, A. N. Miliotou, M. G. Kakafika, L. C. Papadopoulou, I. Iakovou, C. Gabriel, D. Sarigiannis, D. Papagiannopoulou, “Synthesis and biological evaluation of ^{99m}Tc -tricarbonyl complexes of C-3 carboxy derivatives of fluoroquinolones in infection and tumor animal models”, *Inorg. Chim. Acta*, 562, 2024, 121894, <https://doi.org/10.1016/j.ica.2023.121894>.
2. Glykofridi, P., Tziouri, V.-E., Xanthopoulos, K., Hadjipavlou-Litina, D., Papagiannopoulou, D., Synthesis, structural characterization and study of antioxidant and anti-PrPSc properties of flavonoids and their rhenium(I)-tricarbonyl complexes, *J. Biol. Inorg. Chem.*, 2023, 28(2), pp. 235–247.
3. Miliotou, A.N., Papagiannopoulou, D., Vlachaki, E., Tsiftoglou, A.S., Papadopoulou, L.C. PTD-mediated delivery of α -globin chain into K-562 erythroleukemia cells and α -thalassemic (HBH) patients’ RBCs ex vivo in the frame of Protein Replacement Therapy. *J. Biol. Research (Greece)*, 2023, 28(1),16.
4. G.C. Kaiafas, D. Papagiannopoulou, A.N. Miliotou, A.S. Tsingotjidou, P.C. Chalkidou, A.C. Tsika, G.A. Spyroulias, A.S. Tsiftoglou, L.C. Papadopoulou. *In vivo* Biodistribution study of TAT-L-SCO2 Fusion Protein, Developed as Protein Therapeutic for Mitochondrial Disorders attributed to *SCO2* Mutations. *Molecular Genetics and Metabolism Reports*, 2020, 25, 100683.
5. A. Kyriazopoulos, A.-L. Alexiou, A. Miliotou, L. Papadopoulou, A. Hatzidimitriou, D. Papagiannopoulou. Effect of the triphenylphosphonium cation on the biological properties of new rhenium and technetium-99m *fac*-[M(CO)₃(NSN)]⁺-type complexes: Synthesis, structural characterization, in vitro and in vivo studies. *Inorg. Chim. Acta*, 2020, doi: 10.1016/j.ica.2020.119807.
6. C-C Pagoni, V-S Xylouri, G. C. Kaiafas, M. Lazou, G. Bompola, E. Tsoukas, L. C. Papadopoulou, G. Psomas and D. Papagiannopoulou. Organometallic rhenium tricarbonyl enrofloxacin and levofloxacin complexes: Synthesis, albumin binding, DNA interaction and cell viability studies. *J. Biol. Inorg. Chem.*, 2019, 24(5):609-619.
7. L. L. Radford, D. Papagiannopoulou, F. Gallazzi, A. Berendzen, L. Watkinson, T. Carmack, M. R. Lewis, S. S. Jurisson, H. M. Hennkens. Synthesis and evaluation of $\text{Re}/^{99m}\text{Tc}(\text{I})$ complexes bearing a somatostatin receptor-targeting antagonist and labeled via a novel [N,S,O] clickable bifunctional chelating agent. *Bioorg. Med. Chem.*, 2019, 27, 492-501.
8. J. M. Mašković, A. Hatzidimitriou, A. Damjanović, T. P. Stanojković, S. R. Trifunović, A.A. Geronikaki, D. Papagiannopoulou, Synthesis, characterization and biological evaluation of Pd(II), Cu(II) Re(I) and $^{99m}\text{Tc}(\text{I})$ thiazole-based complexes. *Med. Chem. Commun.*, 2018, 9, 831–842.
9. G. Paparidis, M. Akrivou, V. Tsachouridou, A. Shegani, I. S. Vizirianakis, I. Pirmettis, M. S. Papadopoulos, D. Papagiannopoulou. Synthesis and evaluation of $^{99m}\text{Tc}/\text{Re}$ -tricarbonyl complexes of the triphenylphosphonium cation for mitochondrial targeting. *Nucl. Med. Biol.*, 2018, 57, 34-41.
10. L. Radford, F. Gallazzi, L. Watkinson, T. Carmack, A. Berendzen, M. R. Lewis, S. S. Jurisson, D. Papagiannopoulou, Heather M. Hennkens. Synthesis and evaluation of a ^{99m}Tc

- tricarbonyl-labeled somatostatin receptor-targeting antagonist peptide for imaging of neuroendocrine tumors. *Nucl. Med. Biol.*, 2017, 47, 4–9.
11. V. Georgiadou, G. Makris, D. Papagiannopoulou, G. Vourlias, C. Dendrinou-Samara. Octadecylamine Mediated Versatile Coating of CoFe₂O₄ NPs for the Sustained Release of Anti-inflammatory Drug Naproxen and in vivo Target Selectivity. *ACS Appl. Mater. Interfaces*, 2016, 8 (14), pp 9345–9360.
 12. G. Makris, E. D. Tseligka, I. Pirmettis, M. S. Papadopoulos, I. S. Vizirianakis, D. Papagiannopoulou. Development and Pharmacological Evaluation of New Bone-Targeted ^{99m}Tc-Radiolabeled Bisphosphonates. *Mol. Pharmaceutics*, 2016, 13 (7), 2301–2317.
 13. G. Makris, L. Radford, F. Gallazzi, S. Jurisson, H. Hennkens, D. Papagiannopoulou. Synthesis and evaluation of *fac*-[^{99m}Tc/Re(CO)₃] complexes with a new (NSN) bifunctional chelating agent: the first example of *fac*-[Re(NSN-sst₂-ANT)(CO)₃] complex bearing a somatostatin receptor antagonist peptide. *J. Organomet. Chem.* 2016, 805, 100–107.
 14. G. Makris, D. Papagiannopoulou. Synthesis, characterization and biological evaluation of new biotinylated ^{99m}Tc/Re-tricarbonyl complexes. *J. Labelled Comp. Radiopharm.* 2016, 59, 95–102.
 15. T. E. Kydonaki, E. Tsoukas, F. Mendes, A. G. Hatzidimitriou, A. Paulo, L. C. Papadopoulos, D. Papagiannopoulou, G. Psomas. Synthesis, characterization and biological evaluation of ^{99m}Tc/Re–tricarbonyl quinolone complexes. *J. Inorg. Biochem.* 160 (2016) 94–105.
 16. D. Papagiannopoulou, L. Vardouli, F. Dimitriadis, A. Apostolidis. Retrograde transport of radiolabelled botulinum Neurotoxin Type A (BoNT/A) to the central nervous system following intradetrusor injection in rats. *Br. J. Urology International*, 2015, Article first published online: 2 JUL 2015, DOI: 10.1111/bju.13163.
 17. C. Karavasili, M. Spanakis, D. Papagiannopoulou, I. S. Vizirianakis, D. G. Fatouros, S. Koutsopoulos. Bioactive self-assembling lipid-like peptide as enhancers for oral drug delivery. *J. Pharm. Sci.* 2015, 104, 2304–2311.
 18. V. Vassiliadis, C. Triantis, C. P. Raptopoulou, V. Psycharis, A. Terzis, I. Pirmettis, M. S. Papadopoulos, D. Papagiannopoulou. Synthesis, structural characterization and radiochemistry of “2 + 1” *fac*-[^{99m}Tc/Re(CO)₃(L)(2-mercaptopyridine)] complexes, where L is phosphine or isocyanide. *Polyhedron* 2014, 81, 511–516.
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23. P. Kyprianidou, C. Tsoukalas, A. Chiotellis, D. Papagiannopoulou, C. Raptopoulou, A. Terzis, M. Pelecanou, M. Papadopoulos, I. Pirmettis. First example of well-characterized Re and ^{99m}Tc tricarbonyl complexes of ciprofloxacin and norfloxacin in the development of infection-specific imaging agents. *Inorg. Chim. Acta* 2011, 370(1), 236-242.
24. D. Papagiannopoulou, G. Makris, C. Tsoukalas, C. P. Raptopoulou, A. Terzis, M. Pelecanou, I. Pirmettis, M. S. Papadopoulos. Rhenium(I) and technetium(I) fac-M(NSO)(CO)₃ (M = Re, ^{99m}Tc) tricarbonyl complexes, with a tridentate NSO bifunctional agent: Synthesis, structural characterization, and radiochemistry. *Polyhedron* 2010, 29, 876–880.
25. O. Karagiorgou, D. Papagiannopoulou, P. Kyprianidou, G. Patsis, A. Panagiotopoulou, C. Tsoukalas, C. P. Raptopoulou, M. Pelecanou, I. Pirmettis, M. Papadopoulos. Synthesis and structural characterization of novel neutral fac-M(CO)₃(NSO) complexes (M = Re, ^{99m}Tc) with N-acetylcysteine derivatives as tridentate NSO ligands. *Polyhedron* 2009, 28, 3317–3321.
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27. D. Papagiannopoulou, I. Pirmettis, M. Pelecanou, D. Komiotis, C. P. Raptopoulou, A. Terzis, M. S. 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 (11), 3597-3602.
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30. L. Kurti, D. Papagiannopoulou, M. Papadopoulos, I. Pirmettis, C. P. Raptopoulou, A. Terzis, E. Chiotellis, M. Harmata, R. Kuntz, R. S. Pandurangi. Synthesis and Characterization of Water Soluble Diamido Dipyrindino Tetra Aza ^{99g}Tc (V) and Re (V) Complexes: Single Crystal X-Ray Investigations of Monomer and Dimer. *Inorg. Chem.*, 2003, 42, 2960-2967.
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