

CURRICULUM VITAE

PERSONAL INFORMATION

Name: Angeliki Panagiotopoulou
Date of Birth: 19/01/1975
Place of Birth: Kiato, Korinthia, Greece **Nationality:** Greek
Marital Status: Married – Two children
Work Address: Institute of Biosciences & Applications,
National Centre For Scientific Research (NCSR) “Demokritos”,
15310, Ag. Paraskevi, Athens, Greece
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EDUCATION

1998-2005 **Ph D** in Bioinorganic Chemistry. Department of Chemical Engineering,
National Technical University of Athens, Greece.
1996-1997 **M.Sc.** in Clinical Biochemistry with Molecular Biology, University of Surrey,
School of Biological Sciences, Guildford, U.K.
1993-1996 **B.Sc.** in Biological and Medicinal Chemistry, Department of Biological &
Chemical Sciences, Colchester, U.K.

EMPLOYMENT

14/02/17 - present Senior Research Scientist B, Institute of Biosciences & Applications, NCSR
“Demokritos”.
01/08/01 – 13/02/17 Special Scientist, (NMR and CD spectroscopy), Institute of Biosciences &
Applications, NCSR “Demokritos”.
01/12/97 – 31/07/01 Research Assistant, Institute of Physical Chemistry, NCSR “Demokritos”
under the supervision of Dr. N. Katsaros.

RESEARCH EXPERIENCE

Sep 1998 – Jan 2005 Ph.D Thesis, NCSR “Demokritos”, Institute of Physical Chemistry,
“Potential chemical substances with antimicrobial and antibacterial
activity”. Supervisor: Dr. N. Katsaros, Prof. J. Anastasopoulou, Prof.
Th. Theofanides
Sep 1999 – June 2000 Scholarship from the Ministry of Education and Religious Affairs of
Greece
Department of Pharmacy, University of Bari, Italy
“Synthesis of metal complexes and characterization by NMR
spectroscopy”, Supervisor: Prof. G. Natile
1996 – 1997 M.Sc. Thesis, University of Surrey, Guildford, U.K.
“Investigation of the transposition mechanism of the insertion
sequence element IS 900”, Supervisor: Prof. J. McFadden
1995 – 1996 B.Sc. Thesis, University of Essex, Colchester, U.K.
“Near Infrared Spectroscopy of nitrosyl haemoglobin – relevance to in
vivo detection of nitric oxide”, Supervisor: Prof. M. Wilson

RESEARCH INTERESTS

Study of the structure and interactions of bioactive molecules of pharmacological interest by NMR spectroscopy and CD spectropolarimetry. Study of the rotational dynamics of small and medium sized

molecules in solution. Examination of structure of industrial synthetic polymer systems, polysaccharides, natural products, and pharmaceutical compounds by employing NMR spectroscopy. Design, synthesis and characterization of novel metal complexes with potential interest in targeted molecular therapy.

List of publications in international peer-reviewed journals

1. Cooper, E.C, Springett, J.R, **Panagiotopoulou, A.**, and Penrice J. "Near Infrared Spectroscopy of nitrosyl haemoglobin - relevance to *in vivo* detection of nitric oxide". *Biochemical Society Transactions*, **24**:448-449, (1996).
2. **Panagiotopoulou A.**, Katsaros N., Di Masi N.G., Natile G. "Synthesis and characterisation of platinum(II) complexes with the antiviral agents Ftorafur and Furavir" *Inorg Chim. Acta*, **325**, 73-78, (2001).
3. Karagiorgou O., Papagiannopoulou D., Kyprianidou P., Patsis G., **Panagiotopoulou A.**, Tsoukalas C., Raptopoulou C. P., Pelecanou M., Pirmettis I., Papadopoulos M. "Synthesis and structural characterization of novel neutral *fac*-M(CO)₃(NSO) complexes (M=Re, ^{99m}Tc) with N-acetyl-cysteine derivatives as tridentate NSO ligands". *Polyhedron*, **28**, 3317-3321, (2009).
4. Stella Manta, Niki Tzioumaki, Evangelia Tsoukala, **Aggeliki Panagiotopoulou**, Maria Pelecanou, Jam Balzarini, Dimitri Komiotis. "Unsaturated dideoxy fluoro-ketopyranosyl nucleosides as potent antitumor agents: A convenient synthesis of 2,6-dideoxy-3-fluoro-4-keto-β-D-glucopyranosyl analogues of uracil, 5-fluorouracil, thymine, N⁴-benzoyl cytosine and N⁶-benzoyl adenine". *Eur. J. of Med. Chem.* **44**, 4764-4771 (2009).
5. Tsoதாகos, T., Tsoukalas, C., Patsis, G., **Panagiotopoulou, A.**, Nikolić, N., Janković, D., Djokić, D., Raptopoulou, C.P., Terzis, A., Papagiannopoulou, D., Pelecanou, M., Papadopoulos, M., Pirmettis, I. "Benzimidazole derivatives as NSO ligands for the *fac*-[M(CO)₃]⁺ (M = Re, ^{99m}Tc) *Inorg. Chim. Acta*, (2011) **377** (1), 62-68.
6. Makris, G., Karagiorgou, O., Papagiannopoulou, D., **Panagiotopoulou, A.**, Raptopoulou, C.P., Terzis, A., Psycharis, V., Pelecanou, M., Pirmettis, I., Papadopoulos, M. "Rhenium(I) and Technetium(I) tricarbonyl complexes with [NSO]-type chelators: Synthesis, structural characterization, and radiochemistry". *Eur. J. Inorg. Chem.*, (2012) **19**, 3132-3139.
7. Mylonas, I., Triantis, C., **Panagiotopoulou, A.**, Patsis, G., Raptopoulou, C.P., Terzis, A., Psycharis, V., Komiotis, D., Pelecanou, M., Pirmettis, I., Papadopoulos, M. "A new bifunctional tridentate NSN ligand leading to cationic tricarbonyl *fac*-[M(NSN)(CO)₃]⁺ (M = Re, ^{99m}Tc) complexes". *Inorg. Chim. Acta*, (2013) 400, 2-6.
8. Anastassia L. Kantsadi, Vanessa Parmenopoulou, Dimitar N. Bakalov, Laura Snelgrove, George A. Stravodimos, Demetra S.M. Chatzileontiadou, Stella Manta, **Angeliki Panagiotopoulou**, Joseph M. Hayes, Dimitri Komiotis, Demetres D. Leonidas. "Glycogen phosphorylase as a target for type 2 diabetes: Synthetic, biochemical, structural and computational evaluation of novel N-acyl-N'-(β-D-glucopyranosyl) urea inhibitors". *Current Topics in Med Chem* (2015) **15**(23), 2373-89.
9. Athina Dimopoulou, Nikolaos Kollatos, Stella Manta, **Angeliki Panagiotopoulou**, Athanasios Karastergiou, Filitsa Kontopoulou, Dominique Schols, Dimitri Komiotis "Facile Microwave-assisted Synthesis of Various C5-modified Pyrimidine". *Current Microwave Chemistry* (2017), **4**, 1-15.
10. Sevastos, A., Kalampokis, I., **Panagiotopoulou, A.**, Pelecanou, M., Aliferis, K. "Implication of *Fusarium graminearum* primary metabolism in its resistance to benzimidazole fungicides as revealed by ¹H NMR metabolomics". *Pesticide Biochemistry and Physiology* (2018), **148**, 50-61.

11. Manta, S. Tzioumaki, N., Kollatos, N., Andrea, P., Margaritouli, M., **Panagiotopoulou, A.**, Papanastasiou, I., Mitsos, C., Tsotinis, A., Schols, D., Komiotis, D. "Polyfunctionalized Pyrrole Derivatives: Easy Three-component Microwave-Assisted Synthesis, Cytostatic and Antiviral Evaluation". *Curr Microwave Chem* (2018) 5, 1-9.
12. Dimitriadi, M., **Panagiotopoulou, A.**, Pelecanou, M., Yannakopoulou, K., Eliades, G. "Stability and reactivity of γ -MPTMS silane in some commercial primer and adhesive formulations". *Dental Materials* (2018) 34(8), 1089-1101.
13. Sevastos A., Kalampokis I.F., **Panagiotopoulou, A.**, Pelecanou, M., Aliferis, K.A. "Fusarium graminearum ^1H NMR metabolomics". *Data in Brief* (2018), 19, 1162-1165.
14. Tsoukala, M., Ioannou, P. C., **Panagiotopoulou, A.**, Pelecanou, M., Raptopoulou, C. P., Psycharis, V., Kyritsis, P. (2018). "Self-assembled tetrameric H_2O clusters in the crystal lattice of $[\text{Cu}(\mu_2\text{OH})\{\text{Ph}_2\text{P}(\text{O})\text{NP}(\text{O})\text{Ph}_2\text{-}\kappa\text{1O},\text{O}'\}\{1,10\text{-phen-}\kappa_2\text{N},\text{N}'\}]_2\cdot 2\text{H}_2\text{O}$ ". *J. Coord. Chem.* (2018) 71, 4047–4057.
15. Bonomi, C., Alexandri, A., Vind, J., **Panagiotopoulou, A.**, Tsakiridis, P., Panias, D. "Scandium and titanium recovery from bauxite residue by direct leaching with a Brønsted acidic ionic liquid". *Metals* (2018) 8(10), 834-851.
16. T. Tsotakos, C. Triantis, C. Tsoukalas, **A. Panagiotopoulou**, A. Lazopoulos, S. Xanthopoulos, D. Psimadas, P. Bouziotis, M. Pelecanou, M. Papadopoulos, I. Pirmettis. "Cysteine derivatized $^{99\text{m}}\text{Tc}$ -labeled fatty acids as β -oxidation markers" *Bioorg Med Chem, Inorganics* (2019) 7(11), 1-14.
17. Stamatakis, K., Broussos, P. I., **Panagiotopoulou, A.**, Gast, R. J., Pelecanou, M., Papageorgiou, G. C. Light-adaptive state transitions in the Ross Sea haptophyte *Phaeocystis antarctica* and in dinoflagellate cells hosting kleptoplasts derived from it. *Biochim. Biophys. Acta Bioenerg.* (2019) 1860, 102-110.
18. Matiadis, D., Tsironis, D., Stefanou, V., Elliott, A.G., Kordatos, K., Zahariou, G., Ioannidis, N., McKee, V., **Panagiotopoulou, A.**, Igglessi-Markopoulou, O., Markopoulos, J. (2019). "Synthesis, characterization and antimicrobial activity of N-acetyl-3-acetyl-5-benzylidene tetramic acid-metal complexes. X-ray analysis and identification of the Cd(II) complex as a potent antifungal agent". *J. Inorg. Biochem.* (2019) 194, 65-73.
19. D. Matiadis, B. Mavroidi, **A. Panagiotopoulou**, C. Methenitis, M. Pelecanou, M. Sagnou "1-(4-Ethoxycarbonyl)-5-(3,4-dimethoxyphenyl)-3-(3,4-dimethoxystyryl)-2-pyrazoline: Synthesis, 3 Characterization, DNA-Interaction and Evaluation of 4 Activity Against Drug-Resistant Cell Lines" *MolBank* (2020) 1, M1114.
20. Ntatsi, G., Aliferis, K.A, **Panagiotopoulou, A.**, Roupheal, Y., Savvas, D. " ^1H NMR metabolic profiling dataset of spiny chicory (*Cichorium spinosum* L.) exposed to abiotic stresses" *Data in Brief* (2020) 30, 1-4.
21. Nikolaos Kollatos, Christos Mitsos, Roula Karetsoy, Styliani Danai Antonaki, **Aggeliki Panagiotopoulou**, Niki Tzioumaki, Stella Manta, Dominique Schols, Dimitri Komiotis. "Design, Synthesis, and Biological Evaluation of Novel C5-Modified Pyrimidine Acyclic Nucleosides". *J. of Pharmaceutics and Drug Research* (2020) accepted