

## PUBLICATIONS 2013

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### ORIGINAL PUBLICATIONS AND REVIEWS

- 1) Agelis, G.; Resvani, A.; Koukoulitsa, C.; Tůmová, T.; Slaninová, J.; Kalavrizioti, D.; Spyridaki, K.; Afantitis, A.; Melagraki, G.; Siafaka, A.; Gkini, E.; Megariotis, G.; Grdadolnik, S. G.; **Papadopoulos, M. G.**; Vlahakos, D.; Maragoudakis, M.; Liapakis, G.; Mavromoustakos, T.; Matsoukas, J. Rational Design, Efficient Syntheses and Biological Evaluation of N,N'-Symmetrically Bis-Substituted Butylimidazole Analogs as a New Class of Potent Angiotensin II Receptor Blockers. *Eur. J. Med. Chem.* (2013), 62, 352–370. <https://doi.org/10.1016/j.ejmech.2012.12.044>.
- 2) Aldini, G.; Vistoli, G.; Stefek, M.; **Chondrogianni, N.**; Grune, T.; Sereikaite, J.; Sadowska-Bartosz, I.; Bartosz, G. Molecular Strategies to Prevent, Inhibit, and Degrade Advanced Glycooxidation and Advanced Lipoxidation End Products. *Free Radic. Res.* (2013), 47 (S1), 93–137. <https://doi.org/10.3109/10715762.2013.792926>
- 3) Athanasiadou, D.; Godelitsas, A.; Sokaras, D.; Karydas, A. G.; Dotsika, E.; Potamitis, C.; **Zervou, M.**; Xanthos, S.; Chatzitheodoridis, E.; Gooi, H. C.; Becker, U. New Insights into the Chemical and Isotopic Composition of Human-Body Biominerals. I: Cholesterol Gallstones from England and Greece. *J. Trace Elem. Med. Biol.* (2013), 27 (2), 79–84. <https://doi.org/10.1016/j.jtemb.2012.08.004>.
- 4) Avramopoulos, A.; Reis, H.; Luis, J. M.; **Papadopoulos, M. G.** On the Vibrational Linear and Nonlinear Optical Properties of Compounds Involving Noble Gas Atoms: HXeOXeH, HXeOXeF, and FXeOXeF. *J. Comput. Chem.* (2013), 34 (17), 1446–1455. <https://doi.org/10.1002/jcc.23280>.
- 5) Avramopoulos, A.; **Reis, H.**; Mousdis, G. A.; **Papadopoulos, M. G.** Ni Dithiolenes - A Theoretical Study on Structure-Property Relationships. *Eur. J. Inorg. Chem.* (2013), No. 27, 4839–4850. <https://doi.org/10.1002/ejic.201300534>.
- 6) Beekman, M.; Blanche, H.; Perola, M.; Hervonen, A.; Bezrukov, V.; Sikora, E.; Flachsbarth, F.; Christiansen, L.; De Craen, A. J. M.; Kirkwood, T. B. L.; Rea, I. M.; Poulain, M.; Robine, J. M.; Valensin, S.; Stazi, M. A.; Passarino, G.; Deiana, L.; **Gonos, E. S.**; Paternoster, L.; et al. Genome-Wide Linkage Analysis for Human Longevity: Genetics of Healthy Aging Study. *Aging Cell* (2013), 12 (2), 184–193. <https://doi.org/10.1111/accel.12039>.

- 7) Boraschi, D.; Byrne, H. J.; Fadeel, B.; Gehr, P.; Gutleb, A. C.; Kendall, M.; **Papadopoulos, M. G.**; Ahluwalia, A. The Bio-Nano-Interface in Predicting Nanoparticle Fate and Behaviour in Living Organisms: Towards Grouping and Categorising Nanomaterials and Ensuring Nanosafety by Design. *BioNanoMaterials* 2013, 14 (3–4), 195–216 <https://doi.org/10.1515/bnm-2013-0011>
- 8) Boraschi, D.; Byrne, H. J.; Fadeel, B.; Gehr, P.; Gutleb, A. C.; Kendall, M.; **Papadopoulos, M. G.**; Ahluwalia, A. The Bio-Nano-Interface in Predicting Nanoparticle Fate and Behaviour in Living Organisms: Towards Grouping and Categorising Nanomaterials and Ensuring Nanosafety by Design. *BioNanoMaterials* 2013, 14 (3–4), 195–216 <https://doi.org/10.1515/bnm-2013-0011>
- 9) Bulik, I. W.; Zaleśny, R.; Bartkowiak, W.; Luis, J. M.; Kirtman, B.; Scuseria, G. E.; Avramopoulos, A.; **Reis, H.**; **Papadopoulos, M. G.** Performance of Density Functional Theory in Computing Nonresonant Vibrational (Hyper)Polarizabilities. *J. Comput. Chem.* (2013), 34 (20), 1775–1784. <https://doi.org/10.1002/jcc.23316>.
- 10) Cevenini, E.; Cotichini, R.; Stazi, M. A.; Toccaceli, V.; Scurti, M.; Mari, V.; Berardelli, M.; Passarino, G.; Jeune, B.; Franceschi, C.; Bezrukov, V.; Blanché, H.; Bolund, L.; Christensen, K.; Deiana, L.; **Gonos, E.**; Hervonen, A.; Kirkwood, T. B. L.; Kristensen, P.; Leon, A.; Pelicci, P. G.; Perola, M.; Poulain, M.; Rea, I. M.; Remacle, J.; Robine, J. M.; Schreiber, S.; Sikora, E.; Slagboom, P. E.; Spazzafumo, L.; Toussaint, O.; Vaupel, J. W. How to Classify the Oldest Old According to Their Health Status: A Study on 1160 Subjects Belonging to 552 90+ Italian Sib-Ships Characterized by Familial Longevity Recruited within the GEHA EU Project. *Mech. Ageing Dev.* (2013), 134 (11–12), 560–569 <https://doi.org/10.1016/j.mad.2013.11.001>
- 11) Chantzi, N. I.; Tiniakos, D. G.; Palaiologou, M.; Goutas, N.; Filippidis, T.; Vassilaros, S. D.; Dhimolea, E.; **Mitsiou, D. J.**; **Alexis, M. N.** Estrogen Receptor Beta 2 Is Associated with Poor Prognosis in Estrogen Receptor Alpha-Negative Breast Carcinoma. *J. Cancer Res. Clin. Oncol.* (2013), 139 (9), 1489–1498. <https://doi.org/10.1007/s00432-013-1467-4>.
- 12) Charavgi, M. D.; Dimarogona, M.; Topakas, E.; Christakopoulos, P.; **Chrysina, E. D.** The Structure of a Novel Glucuronoyl Esterase from Myceliophthora Thermophila Gives New Insights into Its Role as a Potential Biocatalyst. *Acta Crystallogr. Sect. D Biol. Crystallogr.* (2013), 69 (1), 63–73. <https://doi.org/10.1107/S0907444912042400>.
- 13) Christodoulou, I.; Kolisis, F. N.; Papaevangelidou, D.; **Zoumpourlis, V.** Comparative Evaluation of Human Mesenchymal Stem Cells of Fetal (Wharton’s Jelly) and Adult (Adipose Tissue) Origin during Prolonged in Vitro Expansion: Considerations for Cytotherapy. *Stem Cells Int.* (2013). <https://doi.org/10.1155/2013/246134>.

- 14) Coe, B. J.; Avramopoulos, A.; **Papadopoulos, M. G.**; Pierloot, K.; Vancoillie, S.; Reis, H. Theoretical Modelling of Photoswitching of Hyperpolarisabilities in Ruthenium Complexes. *Chem. - A Eur. J.* (2013), 19 (47), 15955–15963. <https://doi.org/10.1002/chem.201301380>.
- 15) Da Silva, L.; Godejohann, M.; Martin, F. P. J.; Collino, S.; Bürkle, A.; Moreno-Villanueva, M.; Bernhardt, J.; Toussaint, O.; Grubeck-Loebenstien, B.; **Gonos, E. S.**; Sikora, E.; Grune, T.; Breusing, N.; Franceschi, C.; Hervonen, A.; Spraul, M.; Moco, S. High-Resolution Quantitative Metabolome Analysis of Urine by Automated Flow Injection NMR. *Anal. Chem.* (2013), 85 (12), 5801–5809. <https://doi.org/10.1021/ac4004776>.
- 16) Damianakos, H.; **Sotiroudis, G.**; Chinou, I. Pyrrolizidine Alkaloids from *Onosma Erecta*. *J. Nat. Prod.* (2013), 76 (10), 1829–1835. <https://doi.org/10.1021/np300785g>.
- 17) Diakogiannis, I.; Berberi, A.; **Siapi, E.**; Arkoudi-Vafea, A.; Giannopoulou, L.; Mastronicolis, S. K. Growth and Membrane Fluidity of Food-Borne Pathogen *Listeria Monocytogenes* in the Presence of Weak Acid Preservatives and Hydrochloric Acid. *Front. Microbiol.* (2013), 4 (JUN). <https://doi.org/10.3389/fmicb.2013.00152>.
- 18) Ferraro, A.; Mourtzoukou, D.; **Kosmidou, V.**; Avlonitis, S.; Kontogeorgos, G.; **Zografos, G.**; **Pintzas, A.** EZH2 Is Regulated by ERK/AKT and Targets Integrin Alpha2 Gene to Control Epithelial-Mesenchymal Transition and Anoikis in Colon Cancer Cells. *Int. J. Biochem. Cell Biol.* (2013), 45 (2), 243–254. <https://doi.org/10.1016/j.biocel.2012.10.009>.
- 19) Ferraro, A.; Schepis, F.; Leone, V.; Federico, A.; Borbone, E.; Pallante, P.; Berlingieri, M. T.; Chiappetta, G.; Monaco, M.; Palmieri, D.; Chiariotti, L.; Santoro, M.; Fusco, A. Tumor Suppressor Role of the CL2/DRO1/CCDC80 Gene in Thyroid Carcinogenesis. *J. Clin. Endocrinol. Metab.* (2013), 98 (7), 2834–2843. <https://doi.org/10.1210/jc.2012-2926>.
- 20) Fotakis, C.; Christodouleas, D.; Kokkotou, K.; **Zervou, M.**; **Zoumpoulakis, P.**; Moulos, P.; Liouni, M.; Calokerinos, A. NMR Metabolite Profiling of Greek Grape Marc Spirits. *Food Chem.* (2013), 138 (2–3), 1837–1846. <https://doi.org/10.1016/j.foodchem.2012.11.128>.
- 21) Fotakis, C.; Kokkotou, K.; **Zoumpoulakis, P.**; **Zervou, M.** NMR Metabolite Fingerprinting in Grape Derived Products: An Overview. *Food Res. Int.* (2013), 54 (1), 1184–1194. <https://doi.org/10.1016/j.foodres.2013.03.032>.
- 22) Garcia-Borras, M.; Sola, M.; Lauvergnat, D.; **Reis, H.**; Luis, J. M.; Kirtman, B. A Full Dimensionality Approach to Evaluate the Nonlinear Optical Properties of Molecules with Large Amplitude Anharmonic Tunneling Motions. *J. Chem. Theory Comput.* (2013), 9 (1), 520–532. <https://doi.org/10.1021/ct300805p>.

- 23) Georgakopoulou, E. A.; Tsimaratou, K.; Evangelou, K.; Fernandez-Marcos, P. J.; **Zoumpourlis, V.**; Trougamos, I. P.; Kletsas, D.; Bartek, J.; Serrano, M.; Gorgoulis, V. G. Specific Lipofuscin Staining as a Novel Biomarker to Detect Replicative and Stress-Induced Senescence. A Method Applicable in Cryo-Preserved and Archival Tissues. *Aging (Albany, NY)*. (2013), 5 (1), 37–50.
- 24) Gkatzamanidou, M.; Christoulas, D.; **Souliotis, V. L.**; Papatheodorou, A.; Dimopoulos, M. A.; Terpos, E. Angiogenic Cytokines Profile in Smoldering Multiple Myeloma: No Difference Compared to MGUS but Altered Compared to Symptomatic Myeloma. *Med. Sci. Monit.* (2013), 19, 1188–1194. <https://doi.org/10.12659/MSM.889752>.
- 25) Goudas, T.; Doukas, C.; **Chatziioannou, A.**; Maglogiannis, I. A Collaborative Biomedical Image-Mining Framework: Application on the Image Analysis of Microscopic Kidney Biopsies. *IEEE J. Biomed. Heal. Informatics* (2013), 17 (1), 82–91. <https://doi.org/10.1109/TITB.2012.2224666>.
- 26) Hebels, D. G. A. J.; **Georgiadis, P.**; Keun, H. C.; Athersuch, T. J.; Vineis, P.; Vermeulen, R.; Portengen, U.; Bergdahl, I. A.; Hallmans, G.; Palli, D.; Bendinelli, B.; Krogh, V.; Tumino, R.; Sacerdote, C.; Panico, S.; Kleinjans, J. C. S.; de Kok, T. M. C. M.; Smith, M. T.; **Kyrtopoulos, S. A.** Performance in Omics Analyses of Blood Samples in Long-Term Storage: Opportunities for the Exploitation of Existing Biobanks in Environmental Health Research. *Environ. Health Perspect.* (2013), 121 (4), 480–487. <https://doi.org/10.1289/ehp.1205657>.
- 27) Itabaiana Jr., I.; Gonçalves, K. M.; Cordeiro, Y. M. L.; **Zoumpourlioti, M.**; Leal, I. C. R.; Miranda, L. S. M.; De Souza, R. O. M. A.; **Xenakis, A.** Kinetics and Mechanism of Lipase Catalyzed Monoacylglycerols Synthesis. *J. Mol. Catal. B Enzym.* (2013), 96, 34–39. <https://doi.org/10.1016/j.molcatb.2013.06.008>.
- 28) Kalaitzaki, A.; Emo, M.; Stébé, M. J.; **Xenakis, A.**; **Papadimitriou, V.** Biocompatible Nanodispersions as Delivery Systems of Food Additives: A Structural Study. *Food Res. Int.* (2013), 54 (2), 1448–1454. <https://doi.org/10.1016/j.foodres.2013.08.010>.
- 29) Kang, H. C.; Wakabayashi, Y.; Jen, K. Y.; Mao, J. H.; **Zoumpourlis, V.**; Del Rosario, R.; Balmain, A. Ptch1 Overexpression Drives Skin Carcinogenesis and Developmental Defects in K14Ptch FVB Mice. *J. Invest. Dermatol.* (2013), 133 (5), 1311–1320. <https://doi.org/10.1038/jid.2012.419>.
- 30) Kelly, R. S.; Lundh, T.; Porta, M.; Bergdahl, I. A.; Palli, D.; Johansson, A. S.; Botsivali, M.; Vineis, P.; Vermeulen, R.; **Kyrtopoulos, S. A.**; Chadeau-Hyam, M. Blood Erythrocyte Concentrations of Cadmium and Lead and the Risk of B-Cell Non-Hodgkin's Lymphoma

- and Multiple Myeloma: A Nested Case-Control Study. *PLoS One* (2013), 8 (11). <https://doi.org/10.1371/journal.pone.0081892>.
- 31) Kritsi, E.; Potamitis, C.; Durdagi, S.; **Zoumpoulakis, P.**; Golic Grdadolnik, S.; Mavromoustakos, T. Molecular Insights into the AT<sup>1</sup> antagonism Based on Biophysical and in Silico Studies of Telmisartan. *Med. Chem. Res.* (2013), 22 (10), 4842–4857. <https://doi.org/10.1007/s00044-012-0464-5>.
- 32) Kyriazi, A.; **Papadimitriou, V.**; **Sotiroudis, T. G.**; **Xenakis, A.** Development and Characterization of a Digestion Model Based on Olive Oil Microemulsions. *Eur. J. Lipid Sci. Technol.* (2013), 115 (6), 601–611. <https://doi.org/10.1002/ejlt.201200340>.
- 33) **Kyrtopoulos, S. A.** Making Sense of OMICS Data in Population-Based Environmental Health Studies. *Environ. Mol. Mutagen.* (2013), 54 (7), 468–479. <https://doi.org/10.1002/em.21778>.
- 34) Leonis, G.; Steinbrecher, T.; **Papadopoulos, M. G.** A Contribution to the Drug Resistance Mechanism of Darunavir, Amprenavir, Indinavir, and Saquinavir Complexes with HIV-1 Protease Due to Flap Mutation 150V: A Systematic MM-PBSA and Thermodynamic Integration Study. *J. Chem. Inf. Model.* (2013), 53 (8), 2141–2153. <https://doi.org/10.1021/ci4002102>.
- 35) Logotheti, M.; **Papadodima, O.**; Venizelos, N.; **Chatziioannou, A.**; Kollis, F. A Comparative Genomic Study in Schizophrenic and in Bipolar Disorder Patients, Based on Microarray Expression Pro Ling Meta-Analysis. *Sci. WORLD J.* (2013). <https://doi.org/10.1155/2013/685917>.
- 36) Logotheti, S.; Pavlopoulou, A.; Galtsidis, S.; Vojtesek, B.; **Zoumpourlis, V.** Functions, Divergence and Clinical Value of TAp73 Isoforms in Cancer. *Cancer Metastasis Rev.* (2013), 32 (3–4), 511–534. <https://doi.org/10.1007/s10555-013-9424-x>
- 37) Martina, K.; Cravotto, G.; Caporaso, M.; Rinaldi, L.; Villalonga-Barber, C.; Ermondi, G. Efficient Microwave-Assisted Synthetic Protocols and in Silico Behaviour Prediction of per-Substituted Beta-Cyclodextrins. *Org. Biomol. Chem.* (2013), 11 (33), 5521–5527. <https://doi.org/10.1039/c3ob40909k>.
- 38) Matsoukas, M. T.; Potamitis, C.; Plotas, P.; Androutsou, M. E.; Agelis, G.; Matsoukas, J.; **Zoumpoulakis, P.** Insights into AT<sup>1</sup> Receptor Activation through AngII Binding Studies. *J. Chem. Inf. Model.* (2013), 53 (11), 2798–2811. <https://doi.org/10.1021/ci4003014>.
- 39) Oikonomou, E.; **Pintzas, A.** The TRAIL of Oncogenes to Apoptosis. *BioFactors* (2013), 39 (4), 343–354. <https://doi.org/10.1002/biof.1112>.

- 40) **Papadimitriou, V.**; Dulle, M.; Wachter, W.; **Sotiroudis, T. G.**; Glatter, O.; **Xenakis, A.** Structure and Dynamics of Veiled Virgin Olive Oil: Influence of Production Conditions and Relation to Its Antioxidant Capacity. *Food Biophys.* (2013), 8 (2), 112–121. <https://doi.org/10.1007/s11483-013-9286-3>.
- 41) **Papadodima, O.**; **Chatziioannou, A.**; **Patrinou-Georgoula, M.**; Kolisis, F. N.; **Pletsas, V.**; **Guialis, A.** HuR-Regulated MRNAs Associated with Nuclear HnRNP A1-RNP Complexes. *Int. J. Mol. Sci.* (2013), 14 (10), 20256–20281. <https://doi.org/10.3390/ijms141020256>.
- 42) Papadopoulou, C.; Ganou, V.; **Patrinou-Georgoula, M.**; **Guialis, A.** HuR-HnRNP Interactions and the Effect of Cellular Stress. *Mol. Cell. Biochem.* (2013), 372 (1–2), 137–147. <https://doi.org/10.1007/s11010-012-1454-0>.
- 43) Pedersen, M.; Schoket, B.; Godschalk, R. W.; Wright, J.; von Stedingk, H.; Törnqvist, M.; Sunyer, J.; Nielsen, J. K.; Merlo, D. F.; Mendez, M. A.; Meltzer, H. M.; Lukács, V.; Landström, A.; **Kyrtopoulos, S. A.**; Kovács, K.; Knudsen, L. E.; Haugen, M.; Hardie, L. J.; Gützkow, K. B.; et al. Bulky DNA Adducts in Cord Blood, Maternal Fruit-and-Vegetable Consumption, and Birth Weight in a European Mother-Child Study (NewGeneris). *Environ. Health Perspect.* (2013), 121 (10), 1200–1206. <https://doi.org/10.1289/ehp.1206333>.
- 44) Polasek, J.; Queiroz, E. F.; Marcourt, L.; Meligova, A. K.; Halabalaki, M.; Skaltsounis, A. L.; **Alexis, M. N.**; Prajogo, B.; Wolfender, J. L.; Hostettmann, K. Peltogynoids and 2-Phenoxychromones from *Peltophorum pterocarpum* and Evaluation of Their Estrogenic Activity. *Planta Med.* (2013), 79 (6), 480–486. <https://doi.org/10.1055/s-0032-1328299>.
- 45) Polissidis, A.; Galanopoulos, A.; Naxakis, G.; **Papahatjis, D.**; Papadopoulou-Daifoti, Z.; Antoniou, K. The Cannabinoid CB1 Receptor Biphasically Modulates Motor Activity and Regulates Dopamine and Glutamate Release Region Dependently. *Int. J. Neuropsychopharmacol.* (2013), 16 (2), 393–403. <https://doi.org/10.1017/S1461145712000156>
- 46) Pongracz, P.; **Kostas, I. D.**; Kollar, L. Platinum Complexes of P,N- and P,N,P-Ligands and Their Application in the Hydroformylation of Styrene. *J. Organomet. Chem.* (2013), 723, 149–153. <https://doi.org/10.1016/j.jorganchem.2012.10.018>.
- 47) Prado Godinho, J. L.; Georgikopoulou, K.; **Calogeropoulou, T.**; de Souza, W.; Fernandes Rodrigues, J. C. A Novel Alkyl Phosphocholine-Dinitroaniline Hybrid Molecule Exhibits Biological Activity in Vitro against *Leishmania Amazonensis*. *Exp. Parasitol.* (2013), 135 (1), 153–165. <https://doi.org/10.1016/j.exppara.2013.06.015>.



- 48) Proestos, C.; Lytoudi, K.; Mavromelanidou, O. K.; **Zoumpoulakis, P.**; Sinanoglou, V. J. Antioxidant Capacity of Selected Plant Extracts and Their Essential Oils. *Antioxidants* 2013, 2 (1), 11–22 <https://doi.org/10.3390/antiox2010011>.
- 49) Prousis, K. C.; Tzani, A.; Avlonitis, N.; **Calogeropoulou, T.**; Detsi, A. Reactivity of 2-Methyl-4H-3,1-Benzoxazin-4-Ones and 2-Methyl-4H-Pyrido[2,3- d][1,3]Oxazin-4-One under Microwave Irradiation Conditions. *J. Heterocycl. Chem.* (2013), 50 (6), 1313–1321. <https://doi.org/10.1002/jhet.1869>.
- 50) Roumeliotis, T. I.; Halabalaki, M.; Alexi, X.; Ankrett, D.; Giannopoulou, E. G.; Skaltsounis, A. L.; Sayan, B. S.; **Alexis, M. N.**; Townsend, P. A.; Garbis, S. D. Pharmacoproteomic Study of the Natural Product Ebenfuran III in DU-145 Prostate Cancer Cells: The Quantitative and Temporal Interrogation of Chemically Induced Cell Death at the Protein Level. *J. Proteome Res.* (2013), 12 (4), 1591–1603. <https://doi.org/10.1021/pr300968q>.
- 51) Sinanoglou, V. J.; Strati, I. F.; Bratakos, S. M.; Proestos, C.; **Zoumpoulakis, P.** and Miniadis-Meimaroglou, S. On the combined application of Iatroscan-TLC-FID and GC-FID to identify total, neutral and polar lipids and their fatty acids extracted from foods. *ISRN Chromatography*, (2013), <https://doi.org/10.1155/2013/859024>.
- 52) Skamnaki, V. T.; Peumans, W. J.; Kantsadi, A. L.; Cubeta, M. A.; Plas, K.; Pakala, S.; **Zographos, S. E.**; Smagghe, G.; Nierman, W. C.; Van Damme, E. J. M.; Leonidas, D. D. Structural Analysis of the *Rhizoctoniasolani* Agglutinin Reveals a Domain-Swapping Dimeric Assembly. *FEBS J.* (2013), 280 (8), 1750–1763. <https://doi.org/10.1111/febs.12190>.
- 53) Skourti H, Christodoulou I, Logotheti S and **V Zoumpourlis**. MicroRNAs, cancer and cancer stem cells: From research to therapy . *ARCHIVES OF HELLENIC MEDICINE* 2013, 30(4):391-405
- 54) Tsatsaroni, A.; Zoidis, G.; **Zoumpoulakis, P.**; Tsotinis, A.; Taylor, M. C.; Kelly, J. M.; Fytas, G. An E/Z Conformational Behaviour Study on the Trypanocidal Action of Lipophilic Spiro Carbocyclic 2,6-Diketopiperazine-1-Acetoxyhydroxamic Acids. *Tetrahedron Lett.* (2013), 54 (25), 3238–3240. <https://doi.org/10.1016/j.tetlet.2013.03.128>.
- 55) Tsitsanou, K. E.; Drakou, C. E.; Thireou, T.; Gruber, A. V.; Kythreoti, G.; Azem, A.; Fessas, D.; Eliopoulos, E.; Iatrou, K.; **Zographos, S. E.** Crystal and Solution Studies of the “plus-C” Odorant-Binding Protein 48 from *Anopheles Gambiae*: Control of Binding Specificity through Three-Dimensional Domain Swapping. *J. Biol. Chem.* (2013), 288 (46), 33427–33438. <https://doi.org/10.1074/jbc.M113.505289>.

- 56) Tsitsanou, K. E.; Hayes, J. M.; Keramioti, M.; Mamais, M.; Oikonomakos, N. G.; Kato, A.; Leonidas, D. D.; **Zographos, S. E.** Sourcing the Affinity of Flavonoids for the Glycogen Phosphorylase Inhibitor Site via Crystallography, Kinetics and QM/MM-PBSA Binding Studies: Comparison of Chrysin and Flavopiridol. *Food Chem. Toxicol.* (2013), *61*, 14–27. <https://doi.org/10.1016/j.fct.2012.12.030>.
- 57) Tzoupis, H.; Leonis, G.; Mavromoustakos, T.; **Papadopoulos, M. G.** A Comparative Molecular Dynamics, MM-PBSA and Thermodynamic Integration Study of Saquinavir Complexes with Wild-Type HIV-1 PR and L10I, G48V, L63P, A71V, G73S, V82A and I84V Single Mutants. *J. Chem. Theory Comput.* (2013), *9* (3), 1754–1764. <https://doi.org/10.1021/ct301063k>.
- 58) Valavanis, I.; Maglogiannis, I.; **Chatziioannou, A.** Intelligent Identification of Biomarkers for the Study of Obstructive Nephropathy. *Intell. Decis. Technol.* 2013, *7* (1), 11–22 <https://doi.org/10.3233/IDT-120148>.
- 59) Vallianatou, K. A.; Frank, D. J.; Antonopoulou, G.; Georgakopoulos, S.; **Siapi, E.; Zervou, M.; Kostas, I. D.** Rhodium-Catalyzed Asymmetric Olefin Hydrogenation by Easily Accessible Aniline- and Pyridine-Derived Chiral Phosphites. *Tetrahedron Lett.* (2013), *54* (5), 397–401. <https://doi.org/10.1016/j.tetlet.2012.11.023>.
- 60) Vasilatou, D.; Papageorgiou, S. G.; Kontsioti, F.; Kontos, C. K.; Tsiotra, P.; Mpakou, V.; Pavlou, M. A. S.; Economopoulou, C.; Dimitriadis, G.; Dervenoulas, J.; Pappa, V. Expression Analysis of Mir-17-5p, Mir-20a and Let-7a MicroRNAs and Their Target Proteins in CD34+ Bone Marrow Cells of Patients with Myelodysplastic Syndromes. *Leuk. Res.* (2013), *37* (3), 251–258. <https://doi.org/10.1016/j.leukres.2012.11.011>.
- 61) Velimezi, G.; Lontos, M.; Vougas, K.; Roumeliotis, T.; Bartkova, J.; Sideridou, M.; Dereli-Oz, A.; Kocylowski, M.; Pateras, I. S.; Evangelou, K.; Kotsinas, A.; Orsolich, I.; Bursac, S.; Cokaric-Brdovcak, M.; **Zoumpourlis, V.**; Kletsas, D.; Papafotiou, G.; Klinakis, A.; Volarevic, S.; et al. Functional Interplay between the DNA-Damage-Response Kinase ATM and ARF Tumour Suppressor Protein in Human Cancer. *Nat. Cell Biol.* (2013), *15* (8), 967–977. <https://doi.org/10.1038/ncb2795>.
- 62) Vila, T. V. M.; Ishida, K.; de Souza, W.; Prousis, K.; **Calogeropoulou, T.**; Rozental, S. Effect of Alkylphospholipids on Candida Albicans Biofilm Formation and Maturation. *J. Antimicrob. Chemother.* (2013), *68* (1), 113–125. <https://doi.org/10.1093/jac/dks353>.
- 63) Villalonga-Barber, C.; Vallianatou, K.; Georgakopoulos, S.; **Steele, B. R.; Michascrettas, M.**; Levin, E.; Gabriel Lemcoff, N. Synthesis, Characterisation, Electronic Spectra and Electrochemical Investigation of Ferrocenyl-Terminated Dendrimers. *Tetrahedron* (2013), *69* (19), 3885–3895. <https://doi.org/10.1016/j.tet.2013.03.047>.



- 64) Zajdel, S. M.; Graikou, K.; **Sotiroudis, G.**; Głowniak, K.; Chinou, I. Two New Iridoids from Selected Penstemon Species - Antimicrobial Activity. *Nat. Prod. Res.* (2013), 27 (24), 2263–2271. <https://doi.org/10.1080/14786419.2013.825913>.

## PEER REVIEWED PUBLICATIONS IN PROCEEDINGS

- 1) **Chatziioannou, A. A.**; **Papadodima, O.**; Dejeans, N.; Chevet, E. Integrative Transcriptomic Analysis of Two Cell Lines Elucidates the Architecture of Endoplasmic Reticulum Stress Signaling in Glioblastoma. In *13th IEEE International Conference on Bioinformatics and BioEngineering, IEEE BIBE 2013*; (2013). <https://doi.org/10.1109/BIBE.2013.6701684>.
- 2) Koutsandreas, T.; Pilalis, E.; **Chatziioannou, A.** *A Machine-Learning Approach for the Prediction of Enzymatic Activity of Proteins in Metagenomic Samples*; (2013); Vol. 412. [https://doi.org/10.1007/978-3-642-41142-7\\_9](https://doi.org/10.1007/978-3-642-41142-7_9).
- 3) Koutsandreas, T. G.; Pilalis, E. D.; **Chatziioannou, A. A.** Prediction of Enzymatic Activity of Proteins Based on Structural and Functional Domains. In *13th IEEE International Conference on Bioinformatics and BioEngineering, IEEE BIBE 2013*; (2013). <https://doi.org/10.1109/BIBE.2013.6701559>.
- 4) Pilalis, E. D.; **Chatziioannou, A. A.** Prioritized Functional Analysis of Biological Experiments Using Resampling and Noise Control Methodologies. In *13th IEEE International Conference on Bioinformatics and BioEngineering, IEEE BIBE 2013*; (2013). <https://doi.org/10.1109/BIBE.2013.6701558>.
- 5) Sifakis, E. G.; Valavanis, I.; **Papadodima, O.**; **Chatziioannou, A. A.** Identifying Gender Independent Biomarkers Responsible for Human Muscle Aging Using Microarray Data. In *13th IEEE International Conference on Bioinformatics and BioEngineering, IEEE BIBE 2013*; (2013). <https://doi.org/10.1109/BIBE.2013.6701530>.
- 6) **Sotiroudis, T. G.**; **Sotiroudis, G. T.** Health Aspects of Spirulina (Arthrospira) Microalga Food Supplement. *J. Serbian Chem. Soc.* (2013), 78 (3), 395–405. <https://doi.org/10.2298/JSC121020152S>.
- 7) Valavanis, I.; Moutselos, K.; Maglogiannis, I.; **Chatziioannou, A. A.** Inference of a Robust Diagnostic Signature in the Case of Melanoma: Gene Selection by Information Gain and Gene Ontology Tree Exploration. In *13th IEEE International Conference on Bioinformatics and BioEngineering, IEEE BIBE 2013*; (2013). <https://doi.org/10.1109/BIBE.2013.6701618>.

- 8) Valavanis, I.; Sifakis, E. G.; **Georgiadis, P.**; **Kyrtopoulos, S.**; **Chatziioannou, A. A.** *Derivation of Cancer Related Biomarkers from DNA Methylation Data from an Epidemiological Cohort*; (2013); Vol. 384. [https://doi.org/10.1007/978-3-642-41016-1\\_27](https://doi.org/10.1007/978-3-642-41016-1_27).
- 9) Valavanis, I.; Moutselos, K.; Maglogiannis, I.; **Chatziioannou, A.** \textbackslash{} Gene Prioritization for Inference of Robust Composite Diagnostic Signatures in the Case of Melanoma. In *ARTIFICIAL INTELLIGENCE APPLICATIONS AND INNOVATIONS, AIAI 2013*;
- 10) Cravotto, G.; Martina, K.; Caporaso, M.; **Heropoulos, G.A.**; Jicsinszky, L. "Highly efficient Synthesis of per-substituted amino-cyclodextrins under Microwave Irradiation in a closed Cavity" , *MRS Online Proceedings Library, Volume 1492*, 177-182, **2013**, Cambridge University Press, <https://doi.org/10.1557/opl.2013.176>

## BOOKS

**Kostas, I.D.** Recent Advances in P,N-Containing Ligands for Transition-Metal Homogeneous Catalysis. In "Advances in Organic Synthesis", Atta-ur-Rahman, FRS (Ed.), Bentham Science, 2013, Vol. 6, pp. 3-58.

## PEER REVIEWED ABSTRACTS IN PROCEEDINGS

- 1) **Chondrogianni, N.** Combinatorial Approaches and Models in the Study of Human Ageing in Vitro and in Vivo: Emphasis on *Caenorhabditis Elegans* as a Model Organism. *Free Radic. Biol. Med.* (2013), 65 (1), S20–S21. <https://doi.org/10.1016/j.freeradbiomed.2013.08.156>.
- 2) Georgila, K.; **Chondrogianni, N.**; Kourtis, N.; Tavernarakis, N.; **Gonos, E. S.** Enhanced Proteasome Degradation Extends *Caenorhabditis Elegans* Lifespan and Ameliorates Neurodegeneration. *Free Radic. Biol. Med.* (2013), 65 (1), S32. <https://doi.org/10.1016/j.freeradbiomed.2013.08.033>.
- 3) **Gonos, E. S.** Proteasome Activation as a Novel Anti-Aging Strategy. *Free Radic. Biol. Med.* (2013), 65 (1), S5. <https://doi.org/10.1016/j.freeradbiomed.2013.08.114>.
- 4) Kokotou, M. G.; **Siapi, E.**; Thomaidis, N. S.; Kokotos, G. Fragmentation Pathways of Sweet Dipeptides by High Resolution (+) ESI Mass Spectrometry. *Biopolymers* (2013), 100 (3, SI), 252–253.

- 5) Lambrou, G. I.; **Chatzliannou, A.**; Zaravinos, A.; Karakonstantakis, T.; Adamaki, M.; Braoudaki, M.; Vlahopoulos, S. A. Thermodynamic Transitions on Metabolism and Proliferation of Glucocorticoid-Treated Acute Leukemia Cells. *Int. J. Mol. Med.* (2013), 32 (1), S66.
- 6) Rizos, E.; Siafakas, N.; **Zoumpourlis, V.** MicroRNAs as Biomarkers for Schizophrenia Cancer and Other CNS Disorders - The Role of Mir-183 as a Possible Molecular Protective Biomarker for Cancer in Schizophrenic Subjects. *Int. J. Mol. Med.* (2013), 32 (1), S79.
- 7) Skourti, E.; Kontos, C.; Scorilas, A.; **Zoumpourlis, V.** MiR-200 Family MiRNAs and MiR-3069 Expression Is Significantly Differentiated between Early and Late Mouse Skin Carcinogenesis Stages. *Int. J. Mol. Med.* (2013), 32 (1), S79.
- 8) **Steele, B. R.** DENDRIMERIC NANOMATERIALS AND THEIR BIOMEDICAL APPLICATIONS. *Eur. J. Pharm. Sci.* (2013), 50 (1), E39.
- 9) Zaravinos, A.; **Chatziioannou, A.**; Spandidos, D. A.; Lambrou, G. I. Computational Cell Membrane Mechanics: An Old Acquaintance Revisited. *Int. J. Mol. Med.* (2013), 32 (1), S66. (D) Continuation of organisation of conferences, workshops and summer schools in the area of specialisation of IBMCB researchers, including the 30-year tradition of Spetses Summer Schools, Drug Discovery Schools, Greek-Swedish and other international conferences.