

PUBLICATIONS 2017

ORIGINAL PUBLICATIONS AND REVIEWS

- 1) Adamaki, M.; Goulielmaki, M.; Christodoulou, I.; Vlahopoulos, S.; **Zoumpourlis, V.** Homeobox Gene Involvement in Normal Hematopoiesis and in the Pathogenesis of Childhood Leukemias. *Crit Rev Oncog.* (2017) , 22(3-4), 157-185. <https://doi.org/10.1615/CritRevOncog.2017024465>
- 2) Baira, E.; **Siapi, E.; Zoumpoulakis, P.**; Stelios G., D.; Skaltsounis, A. L.; Gikas, E. Post-Acquisition Spectral Stitching. An Alternative Approach for Data Processing in Untargeted Metabolomics by UHPLC-ESI(-)-HRMS. *J. Chromatogr. B Anal. Technol. Biomed. Life Sci.* (2017), 1047. <https://doi.org/10.1016/j.jchromb.2016.10.030>.
- 3) Bokor, E.; Kyriakis, E.; Solovou, T. G. A.; Koppány, C.; Kantsadi, A. L.; Szabo, K. E.; Szakacs, A.; Stravodimos, G. A.; Docsa, T.; Skamnaki, V. T.; **Zographos, S. E.**; Gergely, P.; Leonidas, D. D.; Somsak, L. Nanomolar Inhibitors of Glycogen Phosphorylase Based on Beta-D-Glucosaminyl Heterocycles: A Combined Synthetic, Enzyme Kinetic, and Protein Crystallography Study. *J. Med. Chem.* (2017), 60 (22), 9251–9262. <https://doi.org/10.1021/acs.jmedchem.7b01056>
- 4) Chaldaiopoulou G., Goulielmaki M., Khoury N., **Zoumpourlis V.** Flashback in the history of Ras research. *Archives of Hellenic Medicine.* (2017);34 (4), 439-447.
- 5) Chatzidaki, M. D.; Papavasileiou, K. D.; **Papadopoulos, M. G.; Xenakis, A.** Reverse Micelles As Antioxidant Carriers: An Experimental and Molecular Dynamics Study. *Langmuir* (2017), 33 (20), 5077–5085. <https://doi.org/10.1021/acs.langmuir.7b00213>.
- 6) **Chatziioannou, A.; Georgiadis, P.**; Hebels, D. G.; Liampa, I.; Valavanis, I.; Bergdahl, I. A.; Johansson, A.; Palli, D.; Chadeau-Hyam, M.; Siskos, A. P.; Keun, H.; Botsivali, M.; de Kok, T. M. C. M.; Perez, A. E.; Kleinjans, J. C. S.; Vineis, P.; **Kyrtopoulos, S. A.**; Consorti, E. P. Blood-Based Omic Profiling Supports Female Susceptibility to Tobacco Smoke-Induced Cardiovascular Diseases. *Sci. Rep.* (2017), 7. <https://doi.org/10.1038/srep42870>.
- 7) Diamanti-Kandarakis, E.; Dattilo, M.; Macut, D.; Duntas, L.; **Gonos, E. S.**; Goulis, D. G.; Gantenbein, C. K.; Kapetanou, M.; Koukkou, E.; Lambrinouadaki, I.; Michalaki, M.; Eftekhari-Nader, S.; Pasquali, R.; Peppas, M.; Tzanela, M.; Vassilatou, E.; Vryonidou, A. Mechanisms in Endocrinology: Aging and Anti-Aging: A Combo- Endocrinology Overview. *European Journal of Endocrinology.* (2017), R283–R308. <https://doi.org/10.1530/EJE-16-1061>.

- 8) Draganidis, D.; **Chondrogianni, N.**; Chatzinikolaou, A.; Terzis, G.; Karagounis, L.G.; Sovatzidis, A.; Avloniti, A.; Lefaki, M.; Protopapa, M.; Deli, C.K.; Papanikolaou, K.; Jamurtas, A.Z.; Fatouros, I.G. Protein ingestion preserves proteasome activity during intense aseptic inflammation and facilitates skeletal muscle recovery in humans. *Br J Nutr.* (2017), 118(3), 189-200. <https://doi.org/10.1017/S0007114517001829>.
- 9) Drakou, C. E.; Tsitsanou, K. E.; Potamitis, C.; Fessas, D.; **Zervou, M.**; **Zographos, S. E.** The Crystal Structure of the AgamOBP1aEuro Cent Icaridin Complex Reveals Alternative Binding Modes and Stereo-Selective Repellent Recognition. *Cell. Mol. LIFE Sci.* (2017), 74 (2), 319–338. <https://doi.org/10.1007/s00018-016-2335-6>.
- 10) Egea, J.; Fabregat, I.; Frapart, Y. M.; Ghezzi, P.; Görlach, A.; Kietzmann, T.; Kubaichuk, K.; Knaus, U. G.; Lopez, M. G.; Olaso-Gonzalez, G.; Petry, A.; Schulz, R.; Vina, J.; Winyard, P.; Abbas, K.; Ademowo, O. S.; Afonso, C. B.; Andreadou, I.; Antelmann, H.; Antunes, F.; Aslan, M.; Bachschmid, M. M.; Barbosa, R. M.; Belousov, V.; Berndt, C.; Bernlohr, D.; Bertrán, E.; Bindoli, A.; Bottari, S. P.; Brito, P. M.; Carrara, G.; Casas, A. I.; Chatzi, A.; **Chondrogianni, N.**; Conrad, M.; Cooke, M. S.; Costa, J. G.; Cuadrado, A.; My-Chan Dang, P.; De Smet, B.; Debeleć-Butuner, B.; Dias, I. H. K.; Dunn, J. D.; Edson, A. J.; El Assar, M.; El-Benna, J.; Ferdinandy, P.; Fernandes, A. S.; Fladmark, K. E.; Förstermann, U.; Giniatullin, R.; Giricz, Z.; Görbe, A.; Griffiths, H.; Hampl, V.; Hanf, A.; Herget, J.; Hernansanz-Agustín, P.; Hillion, M.; Huang, J.; Ilikay, S.; Jansen-Dürr, P.; Jaquet, V.; Joles, J. A.; Kalyanaraman, B.; Kaminsky, D.; Karbaschi, M.; Kleanthous, M.; Klotz, L.-O.; Korac, B.; Korkmaz, K. S.; Koziel, R.; Kračun, D.; Krause, K.-H.; Křen, V.; Krieg, T.; Laranjinha, J.; Lazou, A.; Li, H.; Martínez-Ruiz, A.; Matsui, R.; McBean, G. J.; Meredith, S. P.; Messens, J.; Miguel, V.; Mikhed, Y.; Milisav, I.; Milković, L.; Miranda-Vizuete, A.; Mojović, M.; Monsalve, M.; Mouthuy, P.-A.; Mulvey, J.; Münzel, T.; Muzykantov, V.; Nguyen, I. T. N.; Oelze, M.; Oliveira, N. G.; Palmeira, C. M.; Papaevgeniou, N.; Pavićević, A.; Pedre, B.; Peyrot, F.; Phylactides, M.; Pircalabioru, G. G.; Pitt, A. R.; Poulsen, H. E.; Prieto, I.; Rigobello, M. P.; Robledinos-Antón, N.; Rodríguez-Mañas, L.; Rolo, A. P.; Rousset, F.; Ruskovska, T.; Saraiva, N.; Sasson, S.; Schröder, K.; Semen, K.; Seredenina, T.; Shakirzyanova, A.; Smith, G. L.; Soldati, T.; Sousa, B. C.; Spickett, C. M.; Stancic, A.; Stasia, M. J.; Steinbrenner, H.; Stepanić, V.; Steven, S.; Tokatlidis, K.; Tuncay, E.; Turan, B.; Ursini, F.; Vacek, J.; Vajnerova, O.; Valentová, K.; Van Breusegem, F.; Varisli, L.; Veal, E. A.; Yalçın, A. S.; Yelisyeyeva, O.; Žarković, N.; Zatloukalová, M.; Zielonka, J.; Touyz, R. M.; Papapetropoulos, A.; Grune, T.; Lamas, S.; Schmidt, H. H. H. W.; Di Lisa, F.; Daiber, A. European Contribution to the Study of ROS: A Summary of the Findings and Prospects for the Future from the COST Action BM1203 (EU-ROS). *Redox Biol.* (2017), 13. <https://doi.org/10.1016/j.redox.2017.05.007>.
- 11) Ek, W. E.; Tobi, E. W.; Ahsan, M.; Lampa, E.; Ponzi, E.; **Kyrtopoulos, S. A.**; **Georgiadis, P.**; Lumey, L. H.; Heijmans, B. T.; Botsivali, M.; Bergdahl, I. A.; Karlsson, T.; Rask-Andersen, M.; Palli, D.; Ingelsson, E.; Hedman, Å. K.; Nilsson, L. M.; Vineis, P.; Lind, L.; Flanagan, J. M.; Johansson, A. Tea and Coffee Consumption in Relation to DNA Methylation in Four European Cohorts. *Hum. Mol. Genet.* (2017), 26 (16), 3221–3231. <https://doi.org/10.1093/hmg/ddx194>.

- 12) Filippopoulou, K.; Papaevgeniou, N.; Lefaki, M.; Paraskevopoulou, A.; Biedermann, D.; Křen, V.; **Chondrogianni, N.** 2,3-Dehydrosilybin A/B as a pro-Longevity and Anti-Aggregation Compound. *Free Radic. Biol. Med.* (2017), 103. <https://doi.org/10.1016/j.freeradbiomed.2016.12.042>.
- 13) Filintisi, A.; Fotakis, C.; Asvestas, P.; Matsopoulos, G. K.; **Zoumpoulakis, P.**; Cavouras, D. Automated Metabolite Identification from Biological Fluid 1H NMR Spectra. *Metabolomics* (2017), 13 (12). <https://doi.org/10.1007/s11306-017-1286-8>.
- 14) Fiorito, G.; Polidoro, S.; Dugué, P. A.; Kivimaki, M.; Ponzi, E.; Matullo, G.; Guarrera, S.; Assumma, M. B.; **Georgiadis, P.**; **Kyrtopoulos, S. A.**; Krogh, V.; Palli, D.; Panico, S.; Sacerdote, C.; Tumino, R.; Chadeau-Hyam, M.; Stringhini, S.; Severi, G.; Hodge, A. M.; Giles, G. G.; Marioni, R.; Karlsson Linnér, R.; O'Halloran, A. M.; Kenny, R. A.; Layte, R.; Baglietto, L.; Robinson, O.; McCrory, C.; Milne, R. L.; Vineis, P. Social Adversity and Epigenetic Aging: A Multi-Cohort Study on Socioeconomic Differences in Peripheral Blood DNA Methylation. *Sci. Rep.* (2017), 7 (1). <https://doi.org/10.1038/s41598-017-16391-5>.
- 15) Fotakis, C.; Lantzouraki, D. Z.; Goliomytis, M.; Simitzis, P. E.; Charismiadou, M.; Deligeorgis, S. G.; **Zoumpoulakis, P.** NMR Metabolomics Investigates the Influence of Flavonoid-Enriched Rations on Chicken Plasma. *J. AOAC Int.* (2017), 100 (2), 315–322. <https://doi.org/10.5740/jaoacint.16-0405>.
- 16) Fragkioudaki, S.; Nezos, A.; **Souliotis, V. L.**; Chatziandreou, I.; Saetta, A. A.; Drakoulis, N.; Tzioufas, A. G.; Voulgarelis, M.; Sfikakis, P. P.; Koutsilieris, M.; Crow, M. K.; Moutsopoulos, H. M.; Mavragani, C. P. MTHFR Gene Variants and Non-MALT Lymphoma Development in Primary Sjogren's Syndrome. *Sci. Rep.* (2017), 7 (1). <https://doi.org/10.1038/s41598-017-07347-w>.
- 17) Galtsidis, S.; Logotheti, S.; Pavlopoulou, A.; Zampetidis, C. P.; Papachristopoulou, G.; Scorilas, A.; Vojtesek, B.; Gorgoulis, V.; **Zoumpourlis, V.** Unravelling a P73-Regulated Network: The Role of a Novel P73-Dependent Target, MIR3158, in Cancer Cell Migration and Invasiveness. *Cancer Lett.* (2017), 388. <https://doi.org/10.1016/j.canlet.2016.11.036>.
- 18) **Georgiadis, P.**; Liampa, I.; Hebels, D. G.; Krauskopf, J.; Chatziioannou, A.; Valavanis, I.; de Kok, T. M. C.; Kleinjans, J. C. S.; Bergdahl, I. A.; Melin, B.; Spaeth, F.; Palli, D.; Vermeulen, R. C. H.; Vlaanderen, J.; Chadeau-Hyam, M.; Vineis, P.; **Kyrtopoulos, S. A.**; Gottschalk, R.; van Leeuwen, D.; Timmermans, L.; Botsivali, M.; Bendinelli, B.; Kelly, R.; Portengen, L.; Saberi-Hosnijeh, F.; Hallmans, G.; Lenner, P.; Keun, H. C.; Siskos, A.; Athersuch, T. J.; Kogevinas, M.; Stephanou, E. G.; Myridakis, A.; Fazzo, L.; Santis, M. D.; Comba, P.; Kiviranta, H.; Rantakokko, P.; Airaksinen, R.; Ruokojärvi, P.; Gilthorpe, M.; Fleming, S.; Fleming, T.; Tu, Y.-K.; Jonsson, B.; Lundh, T.; Chen, W. J.; Lee, W.-C.; Hsiao, C. K.; Chien, K.-L.; Kuo, P.-H.; Hung, H.; Liao, S.-F. Evolving DNA Methylation and Gene Expression Markers of B-Cell Chronic Lymphocytic Leukemia Are Present in Pre-Diagnostic Blood Samples More than 10 Years Prior to Diagnosis. *BMC Genomics* (2017), 18 (1), 728. <https://doi.org/10.1186/s12864-017-4117-4>.

- 19) Gialama, D.; Delivoria, D. C.; Michou, M.; Giannakopoulou, A.; **Skretas, G.** Functional Requirements for DJIA- and RraA-Mediated Enhancement of Recombinant Membrane Protein Production in the Engineered Escherichia Coli Strains SuptoxD and SuptoxR. *J. Mol. Biol.* (2017), 429 (12), 1800–1816. <https://doi.org/10.1016/j.jmb.2017.05.003>.
- 20) Gialama, D.; Kostelidou, K.; Michou, M.; Delivoria, D. C. D. C.; Kollis, F. N. F. N.; **Skretas, G.** Development of Escherichia Coli Strains That Withstand Membrane Protein-Induced Toxicity and Achieve High-Level Recombinant Membrane Protein Production. *ACS Synth. Biol.* (2017), 6 (2), 284–300. <https://doi.org/10.1021/acssynbio.6b00174>.
- 21) Goulielmaki M, Margariti M, Khoury N, Georgadaki K, **Zoumpourlis V.** The dual role of mesenchymal stem cells in cancer: Putative applications for cytotherapy. *Archives of Hellenic medicine.* (2017); 34 (6), 737-744.
- 22) Incerti, M.; Vicini, P.; Geronikaki, A.; Eleftheriou, P.; Tsagkadouras, A.; **Zoumpoulakis, P.**; Fotakis, C.; Ćirić, A.; Glamočlija, J.; Soković, M. New: N -(2-Phenyl-4-Oxo-1,3-Thiazolidin-3-Yl)-1,2-Benzothiazole-3-Carboxamides and Acetamides as Antimicrobial Agents. *Medchemcomm* (2017), 8 (11), 2142–2154. <https://doi.org/10.1039/c7md00334j>.
- 23) Jagiello, K.; Chomicz, B.; Avramopoulos, A.; Gajewicz, A.; Mikolajczyk, A.; Bonifassi, P.; **Papadopoulos, M. G.**; Leszczynski, J.; Puzyn, T. Size-Dependent Electronic Properties of Nanomaterials: How This Novel Class of Nanodescriptors Supposed to Be Calculated? *Struct. Chem.* (2017), 28 (3). <https://doi.org/10.1007/s11224-016-0838-2>.
- 24) Kalogianni, E. P. E. P.; Sklaviadis, L.; Nika, S.; **Theochari, I.**; Dimitreli, G.; Georgiou, D.; **Papadimitriou, V.** Effect of Oleic Acid on the Properties of Protein Adsorbed Layers at Water/Oil Interfaces: An EPR Study Combined with Dynamic Interfacial Tension Measurements. *Colloids Surfaces B Biointerfaces* (2017), 158, 498–506. <https://doi.org/10.1016/j.colsurfb.2017.07.022>.
- 25) Kapetanou, M.; **Chondrogianni, N.**; Petrakis, S.; Koliakos, G.; **Gonos, E. S.** Proteasome Activation Enhances Sternness and Lifespan of Human Mesenchymal Stem Cells. *Free Radic. Biol. Med.* (2017), 103, 226–235. <https://doi.org/10.1016/j.freeradbiomed.2016.12.035>.
- 26) Kelly, R. S.; Kiviranta, H.; Bergdahl, I. A.; Palli, D.; Johansson, A. S.; Botsivali, M.; Vineis, P.; Vermeulen, R.; **Kyrtopoulos, S. A.**; Chadeau-Hyam, M. Prediagnostic Plasma Concentrations of Organochlorines and Risk of B-Cell Non-Hodgkin Lymphoma in Environomarkers: A Nested Case-Control Study. *Environ. Heal. A Glob. Access Sci. Source* (2017), 16 (1), 1–12. <https://doi.org/10.1186/s12940-017-0214-8>.
- 27) Kokkinofta, R.; Fotakis, C.; Zervou, M.; **Zoumpoulakis, P.**; Savvidou, C.; Poulli, K.; Louka, C.; Economidou, N.; Tzioni, E.; Damianou, K.; Loupasaki, S.; Kefalas, P. Isotopic and Elemental Authenticity Markers: A Case Study on Cypriot Wines. *Food Anal. Methods* (2017), 10 (12), 3902–3913. <https://doi.org/10.1007/s12161-017-0959-2>

- 28) Kollia, E.; Markaki, P.; **Zoumpoulakis, P.**; Proestos, C. Comparison of Different Extraction Methods for the Determination of the Antioxidant and Antifungal Activity of Cynara Scolymus and C. Cardunculus Extracts and Infusions. *Nat. Prod. Commun.* (2017), 12 (3).
- 29) Kollia, E.; Markaki, P.; **Zoumpoulakis, P.**; Proestos, C. Antioxidant Activity of Cynara Scolymus L. and Cynara Cardunculus L. Extracts Obtained by Different Extraction Techniques. *Nat. Prod. Res.* (2017), 31 (10), 1163–1167. <https://doi.org/10.1080/14786419.2016.1219864>.
- 30) Kollia, E.; Proestos, C.; **Zoumpoulakis, P.**; Markaki, P. Inhibitory Effect of Cynara Cardunculus L. Extract on Aflatoxin B1 Production by Aspergillus Parasiticus in Sesame (Sesamum Indicum L.). *Int. J. Food Prop.* (2017), 20 (6), 1270–1279. <https://doi.org/10.1080/10942912.2016.1206928>.
- 31) Kontogianni, G.; **Papadodima, O.**; Mitrakas, A.; Maglogiannis, I.; Koukourakis, M. I.; Giatromanolaki, A.; **Chatziioannou, A.** “An RNA-Seq Analysis from Non-Small Cell Lung Cancer Biopsies Suggests an Important Role for Aberrant Alternative Splicing in Its Pathophysiology.” *Health Technol. (Berl.)*. (2017), 7 (1). <https://doi.org/10.1007/s12553-016-0158-y>.
- 32) **Kostas, I. D.**; **Antonopoulou, G.**; Potamitis, C.; Raptopoulou, C. P. C. P.; Psycharis, V. Platinum Complexes with a Methoxy-Amino Phosphine or a Nitrogen-Containing Bis(Phosphine) Ligand. Synthesis, Characterization and Application to Hydrogenation of Trans-Cinnamaldehyde. *J. Organomet. Chem.* (2017), 828, 133–141. <https://doi.org/10.1016/j.jorganchem.2016.11.036>.
- 33) Krauskopf, J.; De Kok, T. M.; Hebels, D. G.; Bergdahl, I. A.; Johansson, A.; Spaeth, F.; Kiviranta, H.; Rantakokko, P.; **Kyrtopoulos, S. A.**; Kleinjans, J. C. MicroRNA Profile for Health Risk Assessment: Environmental Exposure to Persistent Organic Pollutants Strongly Affects the Human Blood MicroRNA Machinery. *Sci. Rep.* (2017), 7 (1). <https://doi.org/10.1038/s41598-017-10167-7>.
- 34) Kyriakopoulos, A. M.; Nagl, M.; Baliou, S.; **Zoumpourlis, V.** Alleviating Promotion of Inflammation and Cancer Induced by Nonsteroidal Anti-Inflammatory Drugs. *Int. J. Inflamm.* (2017), <https://doi.org/10.1155/2017/9632018>.
- 35) Lefaki, M.; Papaevgeniou, N.; **Chondrogianni N.** Redox regulation of proteasome function. *Redox Biol.* (2017), 13, 452-458. <https://doi.ORG/10.1016/j.redox.2017.07.005>.
- 36) Mamais, M.; Degli Esposti, A.; Kouloumoundra, V.; Gustavsson, T.; Monti, F.; Venturini, A.; **Chrysin, E. D.**; Markovitsi, D.; Gimisis, T. A New Potent Inhibitor of Glycogen Phosphorylase Reveals the Basicity of the Catalytic Site. *Chem. - A Eur. J.* (2017), 23 (37), 8800–8805. <https://doi.org/10.1002/chem.201701591>.
- 37) Matis, I.; Delivoria, D. C.; Mavroidi, B.; Papaevgeniou, N.; Panoutsou, S.; Bellou, S.; Papavasileiou, K. D.; Linardaki, Z. I.; Stavropoulou, A. V.; Vekrellis, K.; Boukos, N.; Kolisis, F. N.; **Gonos,**

- E. S.; Margarity, M.; **Papadopoulos, M. G.**; Efthimiopoulos, S.; Pelecanou, M.; **Chondrogianni, N.**; **Skretas, G.** An Integrated Bacterial System for the Discovery of Chemical Rescuers of Disease-Associated Protein Misfolding. *Nat. Biomed. Eng.* (2017), 1 (10), 838–852. <https://doi.org/10.1038/s41551-017-0144-3>.
- 38) Miletic, T.; Fermi, A.; Orfanos, I.; Avramopoulos, A.; De Leo, F.; Demitri, N.; Bergamini, G.; Ceroni, P.; **Papadopoulos, M. G.**; Couris, S.; Bonifazi, D. Tailoring Colors by O Annulation of Polycyclic Aromatic Hydrocarbons. *Chem. Eur. J.* (2017), 23 (10), 2363–2378. <https://doi.org/10.1002/chem.201604866>.
- 39) Miletic, T.; Fermi, A.; Papadakis, I.; Orfanos, I.; Karampitsos, N.; Avramopoulos, A.; Demitri, N.; De Leo, F.; Pope, S. J. A.; **Papadopoulos, M. G.**; Couris, S.; Bonifazi, D. A Twisted Bay-Substituted Quaterylene Phosphorescing in the NIR Spectral Region. *Helv. Chim. Acta* (2017), 100 (11). <https://doi.org/10.1002/hlca.201700192>.
- 40) Mitsou, E.; **Xenakis, A.**; **Zoumpantioti, M.** Oxidation Catalysis by Enzymes in Microemulsions. *Catalysts* (2017), 7 (2), 52. <https://doi.org/10.3390/catal7020052>.
- 41) Mostafavi, N.; Vlaanderen, J.; Portengen, L.; Chadeau-Hyam, M.; Modig, L.; Palli, D.; Bergdahl, I. A.; Brunekreef, B.; Vineis, P.; Hebels, D. G. A. J.; Kleinjans, J. C. S.; Krogh, V.; Hoek, G.; **Georgiadis, P.**; **Kyrtopoulos, S. A.**; Vermeulen, R. Associations between Genome-Wide Gene Expression and Ambient Nitrogen Oxides (NO_x). *Epidemiology*. 2017. <https://doi.org/10.1097/EDE.0000000000000628>.
- 42) Panagiotaki, K. N.; Sideratou, Z.; Vlahopoulos, S. A.; Paravatou-Petsotas, M.; Zachariadis, M.; Khoury, N.; **Zoumpourlis, V.**; Tsiourvas, D. A Triphenylphosphonium-Functionalized Mitochondriotropic Nanocarrier for Efficient Co-Delivery of Doxorubicin and Chloroquine and Enhanced Antineoplastic Activity. *Pharmaceuticals* (2017), 10 (4). <https://doi.org/10.3390/ph10040091>.
- 43) Papavasileiou, K. D.; Avramopoulos, A.; Leonis, G.; Papadopoulos, M. G. Computational Investigation of Fullerene-DNA Interactions: Implications of Fullerene's Size and Functionalization on DNA Structure and Binding Energetics. *J. Mol. Graph. Model.* (2017), 74, 177–192. <https://doi.org/10.1016/j.jmgm.2017.02.015>.
- 44) Plusquin, M.; Guida, F.; Polidoro, S.; Vermeulen, R.; Raaschou-Nielsen, O.; Campanella, G.; Hoek, G.; **Kyrtopoulos, S. A.**; **Georgiadis, P.**; Naccarati, A.; Sacerdote, C.; Krogh, V.; Bas Bueno-de-Mesquita, H.; Monique Verschuren, W. M.; Sayols-Baixeras, S.; Panni, T.; Peters, A.; Hebels, D. G. A. J.; Kleinjans, J.; Vineis, P.; Chadeau-Hyam, M. DNA Methylation and Exposure to Ambient Air Pollution in Two Prospective Cohorts. *Environ. Int.* (2017), 108 (August), 127–136. <https://doi.org/10.1016/j.envint.2017.08.006>.

- 45) Pournara, D.; **Heropoulos, G. A.**; **Koufaki, M.** Convenient Method for the Synthesis of 5-(4-Methoxyphenyl)-3H-1,2-Dithiole-3-Thione (ADT-OMe) and 5-(4-Hydroxyphenyl)-3H-1,2-Dithiol-3-Thione (ADT-OH) Using Microwave Irradiation. *Tetrahedron Lett.* (2017), 58 (24), 2378–2380. <https://doi.org/10.1016/j.tetlet.2017.05.010>.
- 46) Savic, V.; Todosijevic, M.; Ilic, T.; Lukic, M.; Mitsou, E.; **Papadimitriou, V.**; Avramiotis, S.; Markovic, B.; Cekic, N.; Savic, S. Tacrolimus Loaded Biocompatible Lecithin-Based Microemulsions with Improved Skin Penetration: Structure Characterization and in Vitro/in Vivo Performances. *Int. J. Pharm.* (2017), 529 (1–2), 491–505. <https://doi.org/10.1016/j.ijpharm.2017.07.036>.
- 47) Savvidou, M. G.; Lympelopoulou, T. V.; Mamma, D.; Balta-Brouma, K. P.; **Sotiroudis, T. G.**; Kekos, D.; Kolisis, F. N. A Study on the Combined Effects of Carbon and Nitrogen Source on High Added Value Products Synthesis by Nannochloropsis Oceanica CCMP1779 Using Response Surface Methodology. *Biocatal. Agric. Biotechnol.* (2017), 10. <https://doi.org/10.1016/j.bcab.2017.04.006>.
- 48) Sinanoglou, V. J. V. J.; Cavouras, D.; Boutsikou, T.; Briana, D. D. D.; Lantzouraki, D. Z. D. Z.; Paliatsiou, S.; Volaki, P.; Bratakos, S.; Malamitsi-Puchner, A.; **Zoumpoulakis, P.** Factors Affecting Human Colostrum Fatty Acid Profile: A Case Study. *PLoS One* (2017), 12 (4). <https://doi.org/10.1371/journal.pone.0175817>.
- 49) Skaltsas, T.; Goulielmaki, M.; **Pintzas, A.**; Pispas, S.; Tagmatarchis, N. Carbon Quantum Dots/Block Copolymer Ensembles for Metal-Ion Sensing and Bioimaging. *J. Mater. Chem. B* (2017), 5 (27), 5397–5402. <https://doi.org/10.1039/c7tb01352c>.
- 50) Stagno, M. J.; Zacharopoulou, N.; Bochem, J.; Tsapara, A.; Pelzl, L.; al-Maghout, T.; Kallergi, G.; Alkahtani, S.; Alevizopoulos, K.; Dimas, K.; **Calogeropoulou, T.**; Warmann, S. W.; Lang, F.; Schmid, E.; Stournaras, C. Istaroxime Inhibits Motility and Down-Regulates Orai1 Expression, SOCE and FAK Phosphorylation in Prostate Cancer Cells. *Cell. Physiol. Biochem.* (2017). <https://doi.org/10.1159/000479200>.
- 51) Stamatopoulos, I.; Roulia, M.; Vallianatou, K. A.; Raptopoulou, C. P.; Psycharis, V.; Carravetta, M.; Papachristodoulou, C.; Hey-Hawkins, E.; **Kostas, I. D.**; Kyritsis, P. Immobilization of $\{[Pd\{(Ph_2P)(2)N(CH_2)(3)Si(OCH_3)(3)-\kappa P,P\}X-2] (X=Cl, Br)$ onto Montmorillonite: Investigating Their Performance as Homogeneous or Heterogenized Suzuki-Miyaura Catalysts. *CHEMISTRYSELECT* (2017), 2 (36), 12051–12059. <https://doi.org/10.1002/slct.201702601>.
- 52) Theochari, I.; Goulielmaki, M.; Danino, D.; **Papadimitriou, V.**; **Pintzas, A.**; **Xenakis, A.** Drug Nanocarriers for Cancer Chemotherapy Based on Microemulsions: The Case of Vemurafenib Analog PLX4720. *Colloids Surfaces B Biointerfaces* (2017), 154, 350–356. <https://doi.org/10.1016/j.colsurfb.2017.03.032>.

- 53) Trachana, V.; Petrakis, S.; Fotiadis, Z.; Siska, E. K.; Balis, V.; **Gonos, E. S.**; Kaloyianni, M.; Koliakos, G. Human Mesenchymal Stem Cells with Enhanced Telomerase Activity Acquire Resistance against Oxidative Stress-Induced Genomic Damage. *Cytotherapy* (2017), 19 (7). <https://doi.org/10.1016/j.jcyt.2017.03.078>.
- 54) Vafeiadi, M.; Roumeliotaki, T.; Chalkiadaki, G.; Rantakokko, P.; Kiviranta, H.; Fthenou, E.; **Kyrtopoulos, S. A.**; Kogevinas, M.; Chatzi, L. Persistent Organic Pollutants in Early Pregnancy and Risk of Gestational Diabetes Mellitus. *Environ. Int.* (2017), 98, 89–95. <https://doi.org/10.1016/j.envint.2016.10.005>.
- 55) Vineis, P.; **Chatziioannou, A.**; Cunliffe, V. T.; Flanagan, J. M.; Hanson, M.; Kirsch-Volders, M.; **Kyrtopoulos, S.** Epigenetic Memory in Response to Environmental Stressors. *FASEB J.* (2017), 31 (6). <https://doi.org/10.1096/fj.201601059RR>.
- 56) Vineis, P.; Chadeau-Hyam, M.; Gmuender, H.; Gulliver, J.; Herceg, Z.; Kleinjans, J.; Kogevinas, M.; **Kyrtopoulos, S.**; Nieuwenhuijsen, M.; Phillips, D. H.; Probst-Hensch, N.; Scalbert, A.; Vermeulen, R.; Wild, C. P. The Exposome in Practice: Design of the EXPOSOMICS Project. *Int. J. Hyg. Environ. Health* (2017), 220 (2), 142–151. <https://doi.org/10.1016/j.ijheh.2016.08.001>.
- 57) Virgiliou, C.; Valianou, L.; Witting, M.; Moritz, F.; Fotakis, C.; **Zoumpoulakis, P.**; Chatziioannou, A. C. C.; Lazaros, L.; Makrydimas, G.; Chatzimeletiou, K.; Raikos, N.; Theodoridis, G. A. Metabolic Profile of Human Coelomic Fluid. *Bioanalysis* (2017), 9 (1), 37–51. <https://doi.org/10.4155/bio-2016-0223>.
- 58) Vlaanderen, J.; Leenders, M.; Chadeau-Hyam, M.; Portengen, L.; **Kyrtopoulos, S. A.**; Bergdahl, I. A.; Johansson, A. S.; Hebels, D. D. G. A. J.; de Kok, T. M. C. M.; Vineis, P.; Vermeulen, R. C. H. Exploring the Nature of Prediagnostic Blood Transcriptome Markers of Chronic Lymphocytic Leukemia by Assessing Their Overlap with the Transcriptome at the Clinical Stage. *BMC Genomics* (2017), 18 (1). <https://doi.org/10.1186/s12864-017-3627-4>.
- 59) **Voutetakis, K.**; Delitsikou, V.; Magouritsas, M. G.; **Gonos, E. S.** Anti-Ageing Properties of Khelma Longevity™: Treatment of Human Fibroblasts Increases Proteasome Levels and Decreases the Levels of Oxidized Proteins. *N. Biotechnol.* (2017), 38, 36–39. <https://doi.org/10.1016/j.nbt.2017.03.002>.
- 60) Weber, D.; Stuetz, W.; Toussaint, O.; Debaq-Chainiaux, F.; Dollé, M. E. T.; Jansen, E.; **Gonos, E. S.**; Franceschi, C.; Sikora, E.; Hervonen, A.; Breusing, N.; Sindlinger, T.; Moreno-Villanueva, M.; Bürkle, A.; Grune, T. Associations between Specific Redox Biomarkers and Age in a Large European Cohort: The MARK-AGE Project. *Oxid. Med. Cell. Longev.* (2017), 2017. <https://doi.org/10.1155/2017/1401452>
- 61) Yeles, C.; Vlachavas, E. I.; **Papadodima, O.**; Pilalis, E.; Vorgias, C. E.; Georgakilas, A. G.; **Chatziioannou, A.** Integrative Bioinformatic Analysis of Transcriptomic Data Identifies Conserved

Molecular Pathways Underlying Ionizing Radiation-Induced Bystander Effects (RIBE). *Cancers (Basel)*. (2017), 9 (12). <https://doi.org/10.3390/cancers9120160>.

62) **Zoumpoulakis, P.**; Sinanoglou, V.; **Siapi, E.**; **Heropoulos, G.**; Proestos, C. Evaluating Modern Techniques for the Extraction and Characterisation of Sunflower (*Helianthus Annus L.*) Seeds Phenolics. *Antioxidants* 2017, 6 (3), 46 <https://doi.org/10.3390/antiox6030046>

63) **Zoumpourlis V**, Skourti E, Goulielmaki M, Vlahopoulos S, Christodoulou I. The Ideological Frame of the Genetic Basis of Cancer: The Important Role of miRNAs. *Crit Rev Oncog.* 2017;22(3-4):303-311 <https://doi.org/10.1615/CritRevOncog.2017024535>.

PEER REVIEWED PUBLICATIONS IN PROCEEDINGS

1) Baira, E.; Siapi, E.; **Zoumpoulakis, P.**; Stelios G., D.; Skaltsounis, A. L.; Gikas, E. Post-Acquisition Spectral Stitching. An Alternative Approach for Data Processing in Untargeted Metabolomics by UHPLC-ESI(-)-HRMS. *J. Chromatogr. B Anal. Technol. Biomed. Life Sci.* (2017), 1047. <https://doi.org/10.1016/j.jchromb.2016.10.030>.

2) Chatzidaki, M. D.; **Sotiroudis, G.**; **Zoumpantioti, M.**; Bourlieu-Lacanal, C.; Villeneuve, P.; Xenakis, A*. Antioxidant Activity of Bioactive Molecules in Homogeneous and Heterogeneous Media. In 3rd IMEKOFOODS Conference: Metrology Promoting Harmonization and Standardization in Food and Nutrition; International Measurement Confederation (IMEKO, 2017; p 149.

3) Dimitropoulou, A.; Fotakis, C.; Fotiou, M.; Tsakoumaki, F.; Kyrkou, C.; Menexes, G.; Athanasiadis, A. P.; Biliaderis, C. G.; **Zoumpoulakis, P.**; Michaelidou, A. M. Exploring the Link between the Circulatory and Excreted Metabolome during Pregnancy A Pilot Study. In 3rd IMEKOFOODS Conference: Metrology Promoting Harmonization and Standardization in Food and Nutrition; International Measurement Confederation (IMEKO, 2017; pp 215–218.

4) Fotiou, M.; Kyrkou, C.; Tsakoumaki, F.; Dimitropoulou, A.; Virgiliou, C.; Fotakis, C.; Athanasiadou, E.; Loukri, A.; Papadopoulos, S.; Stamkopoulos, A.; Gika, H.; Theodoridis, G.; Athanasiadis, A. P.; Biliaderis, C. G.; **Zoumpoulakis, P.**; Michaelidou, A. M. A Pilot Study to Explore the Link between Habitual Diet and Urinary Biomarkers during Pregnancy. In 3rd IMEKOFOODS Conference: Metrology Promoting Harmonization and Standardization in Food and Nutrition; International Measurement Confederation (IMEKO); 2017; pp 17–20.

Books

- 1) Leszczynski, J.; Kaczmarek-Kedziera, A.; Puzyn, T.; **Papadopoulos, M. G.; Reis, H.**; Shukla, M. K. Preface. *Handb. Comput. Chem.* 2017, v–vii <https://doi.org/10.1007/978-3-319-27282-5>.
- 2) Medved', M.; Budzák, Š.; Bartkowiak, W.; **Reis, H.** Solvent Effects on Molecular Electric Properties. In *Handbook of Computational Chemistry*; Springer International Publishing: 2017; pp 741–794.
- 3) Richarz A. N. , A. Avramopoulos, E. Benfenati, A. Gajewicz, N. G. Bakhtyari, G. Leonis, R. L. M. Robinson, **M. G. Papadopoulos**, M. T. D. Cronin and T. Puzyn, in *Advances in Experimental Medicine and Biology*, 2017, vol. 947, pp. 303–324.
- 4) Tsiaka, T.; Sinanoglou, V. J.; **Zoumpoulakis, P.** Extracting Bioactive Compounds From Natural Sources Using Green High-Energy Approaches: Trends and Opportunities in Lab- and Large-Scale Applications. , In: *Handbook of Food Bioengineering Vol.4. Ingredients extraction by physicochemical methods in food*, Eds. Alexandru Mihai Grumezescu, Alina Maria Holban. Elsevier Academic Press,, (2017), pp. 307- 365. ISBN: 978-0-12-811521-3

EDITORIALS

- 1) **Kostas, I.D. (Editor)** "Suzuki–Miyaura Cross-Coupling Reaction and Potential Applications". Printed Edition of the Special Issue Published in *Catalysts*, MDPI, Basel, First Edition **2017**.
- 2) Kyriakopoulos Anthony M , Stella Balliou, Nikolas Khoury and **Vasillios Zoumpourlis**. Towards Making the Real Antidote for Malaria. *EC Microbiology* 2017 March 17: 191-194

PEER REVIEWED ABSTRACTS IN PROCEEDINGS

- 1) Baliou, S.; Nagl, M.; Kyriakopoulos, A. M.; **Zoumpourlis, V.** The Anti-Cancer Effect of Bromo-Amine T (BAT). *Int. J. Mol. Med.* (2017), 40 (1), S21.
- 2) **Chondrogianni, N.** Proteasome Activators as Diet Constituents: A Promising Strategy against Aging and Aggregation. *Free Radic. Biol. Med.* (2017), 108 (1), S6–S7. <https://doi.org/10.1016/j.freeradbiomed.2017.04.050>.
- 3) Delivoria, D. C.; Linardaki, Z.; Matis, I.; Bellou, S.; **Pletsas, V.; Skretas, G.** Identification of Potentially Therapeutic Short Cyclic Peptides against Protein Misfolding Diseases. *Free Radic. Biol. Med.* (2017), 108 (1), S14. <https://doi.org/10.1016/j.freeradbiomed.2017.04.075>.

- 4) Devetzi M, Goulielmaki M, Christodoulou I, **Zoumpourlis V.** Mesenchymal stem cells for cancer cytotherapy: Challenges and novel approaches. *Int J Mol Med.* 2017;40:S21-S21.
- 5) Fragkioudaki, S.; Nezos, A.; Saetta, A. A.; Drakoulis, N.; **Souliotis, V. L.**; Sfikakis, P. P.; Tzioufas, A. G.; Voulgarelis, M.; Koutsilieris, M.; Crow, M. K.; Moutsopoulos, H. M.; Mavragani, C. P. CONTRIBUTION OF MTHFR GENE POLYMORPHISMS IN PRIMARY SJOGREN'S SYNDROME RELATED LYMPHOMAGENESIS. *Ann. Rheum. Dis.* (2017), 76 (1), A70. <https://doi.org/10.1136/annrheumdis-2016-211054.8>.
- 6) Papaevgeniou, N.; Hoehn, A.; Grune, T.; **Chondrogianni, N.** Lipofuscin Effects in Caenorhabditis Elegans Ageing Model. *Free Radic. Biol. Med.* (2017), 108 (1), S48. <https://doi.org/10.1016/j.freeradbiomed.2017.04.175>
- 7) Rizos, E.; Siafakas, N.; Skourti, E.; Papageorgiou, C.; Tsoporis, J.; Parker, T.; Spandidos, D. A.; Katsantoni, E.; **Zoumpourlis, V.** Could Schizophrenia Be a Protective Factor against Cancer? The Possible Role of MicroRNAs on This Hypothesis. *Int. J. Mol. Med.* (2017), 40 (1), S58.

