PUBLICATIONS 2019

ORIGINAL PUBLICATIONS AND REVIEWS

1) Abu-Toamih Atamni, H.J., Kontogianni, G., Binenbaum, I., Mott, R., Himmelbauer, H., Lehrach, H., **Chatziioannou, A.,** Iraqi, F.A.,(2019). Hepatic gene expression variations in response to high-fat diet-induced impaired glucose tolerance using RNAseq analysis in collaborative cross mouse population. **Mamm. GENOME** *30*, 260–275. https://doi.org/10.1007/s00335-019-09816-1

2) Alves, L.C., Berger, M.D., Koutsandreas, T., Kirschke, N., Lauer, C., Sporri, R., **Chatziioannou, A.**, Corazza, N., Krebs, P., n.d. Non-apoptotic TRAIL function modulates NK cell activity during viral infection. **EMBO Rep** 21:e48789 https://doi.org/10.15252/embr.201948789

3) Baira E, Dagla I, **Siapi E, Zoumpoulakis P,** Tsarbopoulos A, Simitzis P, Goliomytis M, Deligeorgis SG, Skaltsounis AL, Gikas E., (2019). Development and validation of an UPLC-ESI(-)-HRMS methodology for the simultaneous quantification of hesperidin, naringin and their aglycones in chicken tissue samples. **J AOAC Int.**, 6. https://doi.org/10.5740/jaoacint.18-0408

4) Baira, E., Dagla, I., **Siapi, E., Zoumpoulakis, P.**, Tsarbopoulos, A., Simitzis, P., Goliomytis, M., Deligeorgis, S.G., Skaltsounis, A.-L., Gikas, E.,(2019). Development of a Validated UHPLC-ESI (-)-HRMS Methodology for the Simultaneous Quantitative Determination of Hesperidin, Hesperetin, Naringin, and Naringenin in Chicken Plasma. **Food Anal. Methods** *12*, 1187–1196. https://doi.org/10.1007/s12161-018-01420-4

5) Balafas, E.*, **Katsila, T.***, Melissa, P., Doulou, A., Moltsanidou, E., Agapaki, A., Patrinos, G.P., Kostomitsopoulos, N.,(2019). A Noninvasive Ocular (Tear) Sampling Method for Genetic Ascertainment of Transgenic Mice and Research Ethics Innovation. **Omics J. Integr. Biol.** *23*, 312–317. https://doi.org/10.1089/omi.2019.0057

6) Banerjee, P., **Avramopoulos, A.,** Nandi, P.K.,(2019). Static second-hyperpolarizability of diffuse electron cyclic compounds M(2)A(2) (M = Be, Mg, Ca; A = Li, Na, K): Effect of basis set and electron correlation. **Chem. Phys. Lett.** *729*, 92–98. https://doi.org/10.1016/j.cplett.2019.05.031

7) Barrias, E., Reignault, L.C., **Calogeropoulou, T.,** de Souza, W.,(2019). In vitro activities of adamantylidene-substituted alkylphosphocholine TCAN26 against Trypanosoma cruzi: Antiproliferative and ultrastructural effects. **Exp. Parasitol.** *206*. https://doi.org/10.1016/j.exppara.2019.107730

8) Bohler, S., Krauskopf, J., Espin-Perez, A., Gebel, S., Palli, D., Rantakokko, P., Kiviranta, H., **Kyrtopoulos, S.A.**, Balling, R., Kleinjans, J.,(2019). Genes associated with Parkinson's disease respond to increasing polychlorinated biphenyl levels in the blood of healthy females. **Environ. Pollut.** *250*, 107–117. https://doi.org/10.1016/j.envpol.2019.04.005
9) **Botsivali, M., Kyrtopoulos, S.A.,***(2019). Transplacental exposure to carcinogens and risks to children: evidence from biomarker studies and the utility of omic profiling. **Arch. Toxicol.** *93*, 833–857. https://doi.org/10.1007/s00204-019-02428-3

10) Caini, S., Bendinelli, B., Masala, G., Saieva, C., Assedi, M., Querci, A., Lundh, T., **Kyrtopoulos, S.A.**, Palli, D.,(2019). Determinants of Erythrocyte Lead Levels in 454 Adults in Florence, Italy. **Int. J. Environ. Res. Public Health** *16*. https://doi.org/10.3390/ijerph16030425

11) Charitos, G., Trafalis, D.T., Dalezis, P., **Potamitis, C**., Sarli, V., **Zoumpoulakis, P.*,** Camoutsis, C.,(2019). Synthesis and anticancer activity of novel 3,6-disubstituted 1,2,4-triazolo-{[}3,4-b]-1,3, 4-thiadiazole derivatives. **Arab. J. Chem.** *12*, 4784–4794. https://doi.org/10.1016/j.arabjc.2016.09.015

12) **Chatzidaki,** M.D., **Balkiza,** F., **Gad, E**., Alexandraki, V., **Avramiotis, S**., Georgalaki, M., **Papadimitriou, V.,** Tsakalidou, E., Papadimitriou, K., **Xenakis,** A*.,(2019). Reverse micelles as nano-carriers of nisin against foodborne pathogens. Part II: The case of essential oils. **FOOD Chem.** *278*, 415–423. https://doi.org/10.1016/j.foodchem.2018.11.078

13) Chountoulesi, M., Pippa, N., Chrysostomou, V., Pispas, S., **Chrysina, E.D**., Forys, A., Otulakowski, L., Trzebicka, B., Demetzos, C.,(2019). Stimuli-Responsive Lyotropic Liquid Crystalline Nanosystems with Incorporated Poly(2-Dimethylamino Ethyl Methacrylate)-b-Poly(Lauryl Methacrylate) Amphiphilic Block Copolymer. **Polymers (Basel).** *11*. https://doi.org/10.3390/polym11091400

14) **Delivoria, D.C.**, Chia, S., Habchi, J., Perni, M., **Matis, I.**, **Papaevgeniou, N.**, Reczko, M., **Chondrogianni, N.**, Dobson, C.M., Vendruscolo, M., **Skretas, G.*,**(2019). Bacterial production and direct functional screening of expanded molecular libraries for discovering inhibitors of protein aggregation. **Sci. Adv.** *5*. https://doi.org/10.1126/sciadv.aax5108

15) Espin-Perez, A., Hebels, D.G.A.J., Kiviranta, H., Rantakokko, P., **Georgiadis, P., Botsivali, M.**, Bergdahl, I.A., Palli, D., Spath, F., Johansson, A., Chadeau-Hyam, M., **Kyrtopoulos, S.A.**, Kleinjans, J.C.S., de Kok, T.M.C.M.,(2019). Identification of Sex-Specific Transcriptome Responses to Polychlorinated Biphenyls (PCBs). **Sci. Rep.** *9*. https://doi.org/10.1038/s41598-018-37449-y

16) Fischer, T., Koulas, S.M., Tsagkarakou, A.S., Kyriakis, E., Stravodimos, G.A., Skamnaki, V.T., **Liggri, P.G. V, Zographos, S.E**., Riedl, R., Leonidas, D.D.,(2019). High Consistency of Structure-Based Design and X-Ray Crystallography: Design, Synthesis, Kinetic Evaluation and Crystallographic Binding Mode Determination of Biphenyl-N-acyl-beta-d-Glucopyranosylamines as Glycogen Phosphorylase Inhibitors. **MOLECULES** *24*. https://doi.org/10.3390/molecules24071322

17) Fokialakis, N., **Alexi, X.**, Aligiannis, N., **Boulaka, A**., **Meligova, A.K.**, Lambrinidis, G., Kalpoutzakis, E., Pratsinis, H., Cheilari, A., **Mitsiou, D.J.**, Mitakou, S., **Alexis, M.N.***,(2019). Biological evaluation of isoflavonoids from Genista halacsyi using estrogen-target cells: Activities of glucosides compared to aglycones. **PLoS One** *14*. https://doi.org/10.1371/journal.pone.0210247

18) Gaudet, M.M., Deubler, E.L., Kelly, R.S., Diver, W.R., Teras, L.R., Hodge, J.M., Levine, K.E., Haines, L.G., Lundh, T., Lenner, P., Palli, D., Vineis, P., Bergdahl, I.A., Gapstur, S.M., **Kyrtopoulos, S.A.**,(2019). Blood levels of cadmium and lead in relation to breast cancer risk in three prospective cohorts. **Int. J. CANCER** *144*, 1010–1016. https://doi.org/10.1002/ijc.31805

19) **Georgiadis, P*.**, **Gavriil, M.,** Rantakokko, P., **Ladoukakis, E., Botsivali, M.,** Kelly, R.S., Bergdahl, I.A., Kiviranta, H., Vermeulen, R.C.H., Spaeth, F., Hebbels, D.G.A.J., Kleinjans, J.C.S., de Kok, T.M.C.M., Palli, D., Vineis, P., **Kyrtopoulos, S.A.*,**(2019). DNA methylation profiling implicates exposure to PCBs in the pathogenesis of B-cell chronic lymphocytic leukemia. **Environ. Int.** *126*, 24–36. https://doi.org/10.1016/j.envint.2019.01.068

20) Giannakopoulou, A., Patila, M., Spyrou, K., Chalmpes, N., **Zarafeta, D.**, **Skretas, G.**, Gournis, D., Stamatis, H.*,(2019). Development of a Four-Enzyme Magnetic Nanobiocatalyst for Multi-Step Cascade Reactions. **Catalysts** *9*. https://doi.org/10.3390/catal9120995

21) Giannakourou, M., Strati, I.F., Kriebardis, A.G., Mantanika, V., Poulis, S., **Zoumpoulakis, P.**, Sinanoglou, V.J.,(2019). Shelf Life Extension and Quality Improvement of Cucumber Slices Impregnated in Infusions of Edible Herbs. **Anal. Lett.** *52*, 2677–2691. https://doi.org/10.1080/00032719.2019.1589476

22) **Goulielmaki, M., Assimomytis, N.,** Rozanc, J., **Taki, E., Christodoulou, I.,** Alexopoulos, L., **Zoumpourlis, V., Pintzas, A., Papahatjis, D.*** (2019). DPS-2: A novel dual MEK/ERK and PI3K/AKT pathway inhibitor with powerful ex vivo and in vivo anti-cancer properties. **Translational Oncology** *12,* 932-950. https://doi.org/10.1016/j.tranon.2019.04.005

23) Hrivnak, T., Budzak, S., Reis, H., Zalesny, R., Carbonniere, P., Medved', M.,(2019). Electric properties of hydrated uracil: From micro- to macrohydration. **J. Mol. Liq.** *275*, 338–346. https://doi.org/10.1016/j.molliq.2018.11.044

24) **Ioannou, P.-C., Arbez-Gindre, C., Zoumpanioti, M.**, Raptopoulou, C.P., Psycharis, V., **Kostas, I.D.***, Kyritsis, P.*,(2019). Catalytic reactivity of the complexes {[}Pd{(Ph2P)(2)N(Bu-t)-P,P `}X-2], X = Cl, Br, I, in the Suzuki-Miyaura C-C coupling reaction: Probing effects of the halogeno ligand X- and the ligand's Bu-t group. **J. Organomet. Chem.** *879*, 40–46. https://doi.org/10.1016/j.jorganchem.2018.10.006

25) Jenko Bizjan, B., **Katsila, T.,** Tesovnik, T., Šket, R., Debeljak, M., Matsoukas, M.T., Kovač, J., (2019) Challenges in identifying large germline structural variants for clinical use by long read sequencing. **Comput. Struct. Biotechnol. J.** 18, 83–92. https://doi.org/10.1016/j.csbj.2019.11.008

26) Karavasili, C., Andreadis, D.A., Katsamenis, O.L., Panteris, E., Anastasiadou, P., Kakazanis, Z., **Zoumpourlis, V.,** Markopoulou, C.K., Koutsopoulos, S., Vizirianakis, I.S., Fatouros, D.G.,(2019). Synergistic Antitumor Potency of a Self-Assembling Peptide Hydrogel for the Local Co-delivery of Doxorubicin and Curcumin in the Treatment of Head and Neck Cancer. **Mol. Pharm.** *16*, 2326–2341. https://doi.org/10.1021/acs.molpharmaceut.8b01221

27) Kardeby, C., Paramel V, G., Pournara, D., Fotopoulou, T., Sirsjo, A., **Koufaki, M.**, Fransen, K., Grenegard, M.,(2019). A novel purine analogue bearing nitrate ester prevents platelet activation by ROCK activity inhibition. **Eur. J. Pharmacol.** *857*. https://doi.org/10.1016/j.ejphar.2019.172428

28) Karetsi, V.A., Banti, C.N., Kourkoumelis, N., Papachristodoulou, C., Stalikas, C.D., Raptopoulou, C.P., Psycharis, V., **Zoumpoulakis, P.**, Mavromoustakos, T., Sainis, I., Hadjikakou, S.K.,(2019). An Efficient Disinfectant, Composite Material {SLS@{[}Zn-3(CitH)(2)]} as Ingredient for Development of Sterilized and Non Infectious Contact Lens. **ANTIBIOTICS-BASEL** *8*. https://doi.org/10.3390/antibiotics8040213

29) **Katsila, T.***, Balasopoulou, A., Tsagaraki, I., Patrinos, G.P.,(2019). Pharmacomicrobiomics informs clinical pharmacogenomics. **Pharmacogenomics** *20*, 731–740. https://doi.org/10.2217/pgs-2019-0027

30) Kavga, A., Strati, I.F., Sinanoglou, V.J., **Fotakis, C., Sotiroudis, G., Christodoulou, P., Zoumpoulakis, P.***,(2019). Evaluating the experimental cultivation of peppers in low-energy-demand greenhouses. An interdisciplinary study. **J. Sci. Food Agric.** *99*, 781–789. https://doi.org/10.1002/jsfa.9246

31) Kollia, E., Proestos, C., **Zoumpoulakis, P.**, Markaki, P.,(2019). Capsaicin, an inhibitor of Ochratoxin A production by Aspergillus section Nigri strains in grapes (Vitis vinifera L.). **FOOD Addit. Contam. PART A-CHEMISTRY Anal. Control Expo. RISK Assess.** *36*, 1709–1721. https://doi.org/10.1080/19440049.2019.1652771

32) Koutrotsios, G., Patsou, M., Mitsou, E.K., Bekiaris, G., Kotsou, M., Tarantilis, P.A., **Pletsa, V.,** Kyriacou, A., Zervakis, G.I.,(2019). Valorization of olive by-products as substrates for the cultivation of ganoderma lucidum and pleurotus ostreatus

mushrooms with enhanced functional and prebiotic properties. **Catalysts** *9*. https://doi.org/10.3390/catal9060537

33) **Koutsandreas, T.**, Ladoukakis, E., Pilalis, E., **Zarafeta, D.,** Kolisis, F.N., **Skretas, G., Chatziioannou, A.A**.*,(2019). ANASTASIA: An Automated Metagenomic Analysis Pipeline for Novel Enzyme Discovery Exploiting Next Generation Sequencing Data. **Front. Genet.** *10*. https://doi.org/10.3389/fgene.2019.00469

34) Koutsoukos, S., **Tsiaka, T.**, Tzani, A., **Zoumpoulakis, P.**, Detsi, A.,(2019). Choline chloride and tartaric acid, a Natural Deep Eutectic Solvent for the efficient extraction of phenolic and carotenoid compounds. **J. Clean. Prod.** *241*. https://doi.org/10.1016/j.jclepro.2019.118384

35) **Kritsi, E.**, Matsoukas, M.-T., Potamitis, C., Detsi, A., Ivanov, M., Sokovic, M., **Zoumpoulakis, P.***,(2019). Novel Hit Compounds as Putative Antifungals: The Case of Aspergillus fumigatus. **MOLECULES** *24*. https://doi.org/10.3390/molecules24213853

36) **Lantzouraki DZ, Tsiaka T,** Soteriou N, Asimomiti G, Spanidi E, Natskoulis P, Gardikis K, Sinanoglou VJ, **Zoumpoulakis P.***, (2019). Antioxidant Profiles of Vitis vinifera L. and Salvia triloba L. Leaves Using High Energy Extraction Methodologies. **J AOAC Int.,** 17. https://doi.org/10.5740/jaoacint.19-0261

37) Maffeis, V., Mavreas, K., Monti, F., **Mamais, M.**, Gustavsson, T., **Chrysina, E.D**., Markovitsi, D., Gimisis, T., Venturini, A.,(2019). Multiscale time-resolved fluorescence study of a glycogen phosphorylase inhibitor combined with quantum chemistry calculations. **Phys. Chem. Chem. Phys.** *21*, 7685–7696. https://doi.org/10.1039/c8cp07538g

38) Mansier, O., Prouzet-Mauleon, V., Jegou, G., Barroso, K., Raymundo, D.P., Chauveau, A., Dumas, P.-Y., Lagarde, V., Turcq, B., Pasquet, J.-M., Viallard, J.-F., James, C., Praloran, V., **Voutetakis, K., Chatziioannou, A.**, Mahon, F.-X., Chevet, E., Lippert, E.,(2019). The Expression of Myeloproliferative Neoplasm-Associated Calreticulin Variants Depends on the Functionality of ER-Associated Degradation. **Cancers (Basel).** *11*. https://doi.org/10.3390/cancers11121921

39) Maurel, M., Obacz, J., Avril, T., Ding, Y.-P., Papadodima, O., Treton, X., Daniel, F., Pilalis, E., Horberg, J., Hou, W., Beauchamp, M.-C., Tourneur-Marsille, J., Cazals-Hatem, D., Sommerova, L., Samali, A., Tavernier, J., Hrstka, R., Dupont, A., Fessart, D., Delom, F., Fernandez-Zapico, M.E., Jansen, G., Eriksson, L.A., Thomas, D.Y., Jerome-Majewska, L., Hupp, T., **Chatziioannou, A.,** Chevet, E., Ogier-Denis, E.,(2019). Control of anterior GRadient 2 (AGR2) dimerization links endoplasmic reticulum proteostasis to inflammation. **EMBO Mol. Med.** *11*. https://doi.org/10.15252/emmm.201810120

40) **Michou, M.**, Kapsalis, C., Pliotas, C., **Skretas, G.***,(2019). Optimization of Recombinant Membrane Protein Production in the Engineered Escherichia coli Strains SuptoxD and SuptoxR. **ACS Synth. Biol.** *8*, 1631–1641. https://doi.org/10.1021/acssynbio.9b00120

41) Mitsiogianni, M., Koutsidis, G., Mavroudis, N., Trafalis, D.T., Botaitis, S., Franco, R., **Zoumpourlis, V.,** Amery, T., Galanis, A., Pappa, A., Panayiotidis, M.I.,(2019). The Role of Isothiocyanates as Cancer Chemo-Preventive, Chemo-Therapeutic and Anti-Melanoma Agents. **ANTIOXIDANTS** *8*. https://doi.org/10.3390/antiox8040106

42) **Mitsou,** E., Dupin, A., Sassi, A.H., Monteil, J., **Sotiroudis,** G.T., Leal-Calderon, F., **Xenakis,** A*.,(2019). Hydroxytyrosol encapsulated in biocompatible water-in-oil microemulsions: How the structure affects in vitro absorption. **COLLOIDS AND SURFACES B-BIOINTERFACES** *184*. https://doi.org/10.1016/j.colsurfb.2019.110482

43) **Mitsou,** E., Kalogianni, E.P., Georgiou, D., Stamatis, H., **Xenakis,** A., **Zoumpanioti,** M*.,(2019). Formulation and Structural Study of a Biocompatible Water-in-Oil Microemulsion as an Appropriate Enzyme Carrier: The Model Case of Horseradish Peroxidase. **LANGMUIR** *35*, 150–160. https://doi.org/10.1021/acs.langmuir.8b03124

44) Moraes, C.B., Witt, G., Kuzikov, M., Ellinper, B., **Calogeropoulou, T., Prousis, K.C.,** Mangani, S., Di Pisa, F., Landi, G., Dello Lacono, L., Pozzi, C., Freitas-Junior, L.H., Pascoalino, B. dos S., Bertolacini, C.P., Behrens, B., Keminer, O., Leu, J., Wolf, M., Reinshagen, J., Cordeiro-da-Silva, A., Santarem, N., Venturelli, A., Wrigley, S., Karunakaran, D., Kebede, B., Poehner, I., Mueller, W., Panecka-Hofman, J., Wade, R.C., Fenske, M., Clos, J., Maria Alunda, J., Jesus Corral, M., Uliassi, E., Bolognesi, M.L., Linciano, P., Quotadamo, A., Ferrari, S., Santucci, M., Borsari, C., Costi, M.P., Gul, S.,(2019). Accelerating Drug Discovery Efforts for Trypanosomatidic Infections Using an Integrated Transnational Academic Drug Discovery Platform. **SLAS Discov.** *24*, 346–361. https://doi.org/10.1177/2472555218823171

45) Moysidou, E., **Goulielmaki, M., Christodoulou, I.**, **Zoumpourlis, V.***(2019). Induced pluripotent stem cells: Cell therapy in regenerative medicine and modeling of human disease. **Arch. Hell. Med.** *36*, 300–311.

46) Obiedat, A., Seidel, E., Mahameed, M., Berhani, O., Tsukerman, P., **Voutetakis, K., Chatziioannou, A.,** McMahon, M., Avril, T., Chevet, E., Mandelboim, O., Tirosh, B.,(2019). Transcription of the NKG2D ligand MICA is suppressed by the IRE1/XBP1 pathway of the unfolded protein response through the regulation of E2F1. **FASEB J.** *33*, 3481–3495. https://doi.org/10.1096/fj.201801350RR

47) Papachristos, A., Kemos, P., **Katsila, T.**, Panoilia, E., Patrinos, G.P., Kalofonos, H., Sivolapenko, G.B.,(2019). VEGF-A and ICAM-1 Gene Polymorphisms as Predictors of Clinical Outcome to First-Line Bevacizumab-Based Treatment in Metastatic Colorectal Cancer. **Int. J. Mol. Sci.** *20*. https://doi.org/10.3390/ijms20225791

48) Papadopoulou, A., **Zarafeta, D.,** Galanopoulou, A.P., Stamatis, H.,(2019). Enhanced Catalytic Performance of Trichoderma reesei Cellulase Immobilized on Magnetic Hierarchical Porous Carbon Nanoparticles. **Protein J.** *38*, 640–648. https://doi.org/10.1007/s10930-019-09869-w

49) **Papaevgeniou, N.**, Hoehn, A., Tur, J.A., Klotz, L.-O., Grune, T., **Chondrogianni, N.***, (2019) Sugar-derived AGEs accelerate pharyngeal pumping rate and increase the lifespan of Caenorhabditis elegans. **Free Radic. Res.** https://doi.org/10.1080/10715762.2019.1661403

50) Paunkov, A., Chartoumpekis V, D., Ziros, P.G., **Chondrogianni, N.,** Kensler, T.W., Sykiotis, G.P.,(2019). Impact of Antioxidant Natural Compounds on the Thyroid Gland and Implication of the Keap1/Nrf2 Signaling Pathway. **Curr. Pharm. Des.** *25*, 1828–1846. https://doi.org/10.2174/1381612825666190701165821

51) Pinchuk, I., Weber, D., Kochlik, B., Stuetz, W., Toussaint, O., Debacq-Chainiaux, F., Dolle, M.E.T., Jansen, E.H.J.M., Gonos, E.S., Sikora, E., Breusing, N., Gradinaru, D., Sindlinger, T., Moreno-Villanueva, M., Buerkle, A., Grune, T., Lichtenberg, D.,(2019). Gender- and age-dependencies of oxidative stress, as detected based on the steady state concentrations of different biomarkers in the MARK-AGE study. **REDOX Biol.** *24*. https://doi.org/10.1016/j.redox.2019.101204

52) **Potamitis, C**., **Siakouli, D**., **Papavasileiou, K.D**., **Boulaka, A.**, **Ganou, V**., **Roussaki, M**., **Calogeropoulou, T**., **Zoumpoulakis, P**., **Alexis, M.N**., **Zervou, M**.*, **Mitsiou, D.J**.*,(2019). Discovery of New non-steroidal selective glucocorticoid receptor agonists. **J. Steroid Biochem. Mol. Biol.** *186*, 142–153. https://doi.org/10.1016/j.jsbmb.2018.10.007

53) Rezaei-Mazinani, S., Ivanov, A.I., Biele, M., Rutz, A.L., Gregoriou, V.G., Avgeropoulos, A., Tedde, S.F., **Chochos, C.L.**, Bernard, C., O'Connor, R.P., Malliaras, G.G., Ismailova, E.,(2019). Monitoring fluorescent calcium signals in neural cells with organic photodetectors. **J. Mater. Chem. C** *7*, 9049–9056. https://doi.org/10.1039/c9tc02373a

54) Rietman, M.L., Spijkerman, A.M.W., Wong, A., van Steeg, H., Buerkle, A., Moreno-Villanueva, M., Sindlinger, T., Franceschi, C., Grubeck-Loebenstein, B., Bernhardt, J., Slagboog, P.E., Toussaint, O., Debacq-Chainiaux, F., Sikora, E., **Gonos, E.S.,** Breusing, N., Stuetz, W., Weber, D., Grune, T., Basso, A., Piacenza, F., Malavolta, M., Collino, S., Jansen, E.H.J.M., Verschuren, W.M.M., Dolle, M.E.T.,(2019). Antioxidants linked with physical, cognitive and psychological frailty: Analysis of candidate biomarkers and markers derived from the MARK-AGE study. **Mech. Ageing Dev.** *177*, 135–143. https://doi.org/10.1016/j.mad.2018.04.007

55) Sakellari, A., Karavoltsos, S., Tagkouli, D., Rizou, C., Sinanoglou, V.J., **Zoumpoulakis, P.**, Koutrotsios, G., Zervakis, G.I., Kalogeropoulos, N.,(2019). Trace Elements in Pleurotus Ostreatus, P. Eryngii, and P. Nebrodensis Mushrooms Cultivated on Various Agricultural By-Products. **Anal. Lett.** *52*, 2692–2709. https://doi.org/10.1080/00032719.2019.1594865

56) **Sakellari, M., Chondrogianni, N.*, Gonos, E.S.***, (2019). Protein synthesis inhibition induces proteasome assembly and function. **Biochem. Biophys. Res. Commun.** *514*, 224–230. https://doi.org/10.1016/j.bbrc.2019.04.114

57) Santin-Marquez, R., Alarcon-Aguilar, A., Edith Lopez-Diazguerrero, N., **Chondrogianni, N.,** Konigsberg, M.,(2019). Sulforaphane-role in aging and neurodegeneration. **GEROSCIENCE** *41*, 655–670. https://doi.org/10.1007/s11357-019-00061-7

58) Sauzay, C., **Voutetakis, K., Chatziioannou, A.,** Chevet, E., Avril, T.,(2019). CD90/Thy-1, a Cancer-Associated Cell Surface Signaling Molecule. **Front. CELL Dev. Biol.** *7*. https://doi.org/10.3389/fcell.2019.00066

59) Sinanoglou, V.J., Kavga, A., Strati, I.F., **Sotiroudis, G., Lantzouraki, D., Zoumpoulakis, P.***,(2019). Effects of Infrared Radiation on Eggplant (Solanum melongena L.) Greenhouse Cultivation and Fruits' Phenolic Profile. **FOODS** *8*. https://doi.org/10.3390/foods8120630

60) Singh, R., **Chochos, C.L.***, Gregoriou, V.G., Nega, A.D., Kim, M., Kumar, M., Shin, S.-C., Kim, S.H., Shim, J.W., Lee, J.-J.,(2019). Highly Efficient Indoor Organic Solar Cells by Voltage Loss Minimization through Fine-Tuning of Polymer Structures. **ACS Appl. Mater. Interfaces** *11*, 36905–36916. https://doi.org/10.1021/acsami.9b12018

61) **Souliotis, V.L.,** Vlachogiannis, N.I., Pappa, M., Argyriou, A., Sfikakis, P.P.,(2019). DNA damage accumulation, defective chromatin organization and deficient DNA repair capacity in patients with rheumatoid arthritis. **Clin. Immunol.** *203*, 28–36. https://doi.org/10.1016/j.clim.2019.03.009

62) Stathi, A., Mamais, M., **Chrysina, E.D.**, Gimisis, T.,(2019). Anomeric Spironucleosides of beta-d-Glucopyranosyl Uracil as Potential Inhibitors of Glycogen Phosphorylase. **MOLECULES** *24*. https://doi.org/10.3390/molecules24122327

63) Szabo, K.E., Kyriakis, E., Psarra, A.-M.G., Karra, A.G., Sipos, A., Docsa, T., Stravodimos, G.A., Katsidou, E., Skamnaki, V.T., **Liggri, P.G. V, Zographos, S.E**., Mandi, A., Kiraly, S.B., Kurtan, T., Leonidas, D.D., Somsak, L.,(2019). Glucopyranosylidene-spiro-imidazolinones, a New Ring System: Synthesis and Evaluation as Glycogen Phosphorylase Inhibitors by Enzyme Kinetics and X-ray Crystallography. **J. Med. Chem.** *62*, 6116–6136. https://doi.org/10.1021/acs.jmedchem.9b00356

64) Tatsi, E., Spanos, M., Katsouras, A., Squeo, B.M., Ibraikulov, O.A., Zimmermann, N., Heiser, T., Leveque, P., Gregoriou, V.G., Avgeropoulos, A., Leclerc, N., **Chochos, C.L.***,(2019). Effect of Aryl Substituents and Fluorine Addition on the Optoelectronic Properties and Organic Solar Cell Performance of a High Efficiency Indacenodithienothiophene-alt-Quinoxaline pi-Conjugated Polymer. **Macromol. Chem. Phys.** *220*. https://doi.org/10.1002/macp.201800418

65) van Veldhoven, K., Kiss, A., Keski-Rahkonen, P., Robinot, N., Scalbert, A., Cullinan, P., Chung, K.F., Collins, P., Sinharay, R., Barratt, B.M., Nieuwenhuijsen, M., Rodoreda, A.A., Carrasco-Turigas, G., Vlaanderen, J., Vermeulen, R., Portengen, L., **Kyrtopoulos, S.A.,** Ponzi, E., Chadeau-Hyam, M., Vineis, P.* (2019) Impact of short-term traffic-related air pollution on the metabolome - Results from two metabolome-wide experimental studies. **Environ Int.** *123,* 124-131. https://doi.org/10.1016/j.envint.2018.11.034

66) Vekris, A., Pilalis, E., **Chatziioannou, A.**, Petry, K.G.,(2019). A Computational Pipeline for the Extraction of Actionable Biological Information From NGS-Phage Display Experiments. **Front. Physiol.** *10*. https://doi.org/10.3389/fphys.2019.01160

67) **Vlachavas, E.-I.**, **Pilalis, E., Papadodima, O.**, Koczan, D., Willis, S., Klippel, S., Cheng, C., Pan, L., Sachpekidis, C., **Pintzas, A., Gregoriou, V.,** Dimitrakopoulou-Strauss, A., **Chatziioannou, A.**,*(2019). Radiogenomic Analysis of F-18-Fluorodeoxyglucose Positron Emission Tomography and Gene Expression Data Elucidates the Epidemiological Complexity of Colorectal Cancer Landscape. **Comput. Struct. Biotechnol. J.** *17*, 177–185. https://doi.org/10.1016/j.csbj.2019.01.007

68) Vlahopoulos, S., Adamaki, M., Khoury, N., **Zoumpourlis, V.**, Boldogh, I.,(2019). Roles of DNA repair enzyme OGG1 in innate immunity and its significance for lung cancer. **Pharmacol. Ther.** *194*, 59–72. https://doi.org/10.1016/j.pharmthera.2018.09.004

BOOKS

1) **Chatzidaki**, M.D., **Papadimitriou**, V., **Xenakis, A. ***, (2019) "Encapsulation of food ingredients by microemulsions" in Nanoencapsulation in the Food Industry, Vol 2: Lipid-Based Nanostructures for Food Encapsulation Purposes, Elsevier, pp 129-149

2) **Chatzidaki, M.D., Xenakis, A.*,** (2019) "Food nanodispersions for bioactive delivery: General concepts and applications" in Encyclopedia of Food Chemistry, Elsevier, Vol.7, pp. 701-707

3) **Theodora Calogeropoulou,*** George E. Magoulas, Ina Pöhner, Rebecca C. Wade,2 Joanna Panecka-Hofman, Pasquale Linciano, Stefania Ferrari, Maria Paola Costi,* Nuno Santarem, Ma Dolores Jiménez-Antón, Ana Isabel Olías-Molero, Anabela Cordeiro da Silva and José María Alunda **"**Hits and Lead Discovery in the Identification of New Drugs against the Trypanosomatidic Infections" Chapter 10 in: Medicinal Chemistry of Neglected and Tropical Diseases: Advances in the Design and Synthesis of Antimicrobial Agents, (Edited by:

Venkatesan Jayaprakash, Daniele Castagnolo, Yusuf Özkay) CRC Press (**2019**) Pages. 185-231

EDITORIALS

Gonos, E.S., Chondrogianni, N., Djordjevic, A.M.,(2019). Where ageing goes nowadays: Mechanisms, pathways, biomarkers and anti-ageing strategies. **Mech. Ageing Dev.** *177*, 1–3. https://doi.org/10.1016/j.mad.2018.12.002

PEER REVIEWED ABSTRACTS IN PROCCEDINGS

1) Alves, L.C., Berger, M.D., Koutsandreas, T., Kirschke, N., Lauer, C., Sporri, R., **Chatziioannou, A.**, Corazza, N., Krebs, P., (2019). Non-apoptotic TRAIL function modulates NK cell activity during viral infection. **EMBO Rep.** https://doi.org/10.15252/embr.201948789

2) **Adamaki, M., Zoumpourlis, V.,*** (2019). Existing immunotherapy approaches to prostate cancer treatment and novel combinations that circumvent therapeuttic resistance.**Int J Mol Med**. *44:* S21.
3) **Baliou, S**., Nagl, M., Kyriakopoulos, A., **Zoumpourlis, V.,***(2019)**.** N-Bromotaurine and its stable analogue molecule (Bromamine T-BAT) exhibit a therapeutic effect against cancer and inflammation in vitro and in vivo.**Int J Mol Med.***44*: S20.
4) Castagne, R., Kelly-Irving, M., **Kyrtopoulos, S.A.**, Vineis, P., Chadeau-Hyam, M., Delpierre, C.,(2019). A multi-omics approach to investigate the inflammatory response of life course socioeconomic position: findings from epic-italy. **J. Epidemiol. Community Health** *73*, A40. https://doi.org/10.1136/jech-2019-SSMabstracts.84

5) **Gavriil, V., Sarantopoulou, E., Kollia, Z., Goulielmaki, M., Zoumpourlis, V., Cefalas, A., C.***, (2019). Cytoskeletal stressing models in cancer cells. **Int J Mol Med.** *44*: S20.
6) **Georgiadis, P.*, Christodoulou, P., Lianou, E., Boulaka, A.,** Mitsou, E., Vlassopoulou, M., Zervakis, G.I., Karagouni, A.D., Kyriacou, A., Zervou, M., **Pletsa, V.*,**(2019). In vitro fermentation of pleurotus ostreatus and ganoderma lucidum by human gut microbiota: cytotoxic, genotoxic and metabolomic analysis of the products. **Toxicol. Lett.** *314*, S290.
7) Gkotzamanidou, M., Chyra, Z., Shammas, M., **Souliotis, V.L.,** Xu, Y., Samur, M., Hajek, R., Fulciniti, M., Munshi, N.,(2019). HDAC8 Mediates Homologous Recombination and Cytoskeleton Integrity in Myeloma with Potential Impact on Cell Growth and Survival. **Clin. LYMPHOMA MYELOMA Leuk.** *19*, E127–E128. https://doi.org/10.1016/j.clml.2019.09.211

8) Kardeby, C., Paramel, G.V., **Pournara, D.**, **Fotopoulou, T.**, Sirsjö, A., **Koufaki, M.**, Fransén, K., Grenegård, M., (2019) A novel purine analogue bearing nitrate ester prevents platelet activation by ROCK activity inhibition, **Eur. J. Pharmacol.** *857*, 172428
9) **Goulielmaki, M., Christodoulou, I., Zoumpourlis, V.,*** (2019). Mesenchymal stem cells isolated from the umbilical cord act as potent anticancer agents. **Int J Mol Med.***44*: S21.
10) Kyriakopoulos, A., Nagl, M., Gottardi, W., Baliou, S., **Zoumpourlis, V.,*** (2019). Taurine and derivative clinical data.**Int J Mol Med.** *44*: S20.
11) Liggri, P., Tsitsanou, K., **Zografos, S.,**(2019). Structural and biochemical studies of an odorant binding protein from the malaria vector Anopheles gambiae. **FEBS Open Bio** *9*, 269.

12) **Papadodima, O*., Kontogianni, G., Piroti, G.**, Maglogiannis, I. & **Chatziioannou, A***. Genomics of Cutaneous Melanoma: Focus on Next-Generation Sequencing Approaches and Bioinformatics. (2019). **J Transl Genet Genom** 3:7. https://doi.org/10.20517/jtgg.2018.33

13) Papaevgeniou, N., Fotopoulou, T., Vasilopoulou, M.A., Panat, N., Pick, E., Golan, A., **Gonos, E.S., Papahatjis, D., Calogeropoulou, T., Koufaki, M., Chondrogianni, N.,**(2019). A novel bioinspired proteasome activator: potential anti-ageing strategies offered by mother nature (but not only). **Free Radic. Biol. Med.** *139*, S8.

14) Pappa, M., Vlachogiannis, N., Argyriou, A., **Souliotis, V.L.,** Sfikakis, P.,(2019). DEFICIENT DNA DAMAGE RESPONSE AND REPAIR IN ACTIVE RHEUMATOID ARTHRITIS AND THE EFFECT OF TREATMENT. **Ann. Rheum. Dis.** *78*, 1093. https://doi.org/10.1136/annrheumdis-2019-eular.5129

15) Rizos, E., Siafakas, N., Skourti, E., Papageorgiou, C., Tsoporis, J., Parker, Th., Spandidos, D., A., Katsantoni, E., Tsamakis, K., Nikolakakis, N., **Zoumpourlis, V.***, (2019). The possiblee low cancer risk in schizophrenic patients, through the regulatory role of microRNAs: Preliminary data. **Int J Mol Med.** *44*: S24.

16) Rizos, E., **Zoumpourlis, V.,** Siafakas, N., Katsantoni, E.*, (2019). The low cancer risk in patients suffering from schizophrenic spectrum disorder. The possible role of microRNAs. Future medication strategies. **Eur Arch Psychiatry Clin Neurosci.** *269* (Suppl 1):S22.

17) **Vidali, S.M.*, Georgiadis, P*.**, Stefanos, D., Vlastos, D.,(2019). Analysis of the biological effects of Persistant Organic Pollutants (POPs) on human leukocyte cell lines and peripheral blood mononuclear cells. **Toxicol. Lett.** *314*, S108.

18) **Zoumpourlis, V.***, (2019). Identification of miRNAs with potential therapeutic value in the treatment of various cancer types. **Eur Arch Psychiatry Clin Neurosci.** 269 (Suppl 1):S22.