

PUBLICATIONS 2018

ORIGINAL PUBLICATIONS AND REVIEWS

- 1) Andreou, V., Strati, I.F., **Fotakis, C.**, Liouni, M., **Zoumpoulakis, P.**, Sinanoglou, V.J.* , (2018). Herbal distillates: A new era of grape marc distillates with enriched antioxidant profile. **Food Chemistry** 253, 171–178. <https://doi.org/10.1016/j.foodchem.2018.01.162>
- 2) Angelopoulou, A., Kolokithas-Ntoukas, A., Papaioannou, L., **Kakazanis, Z.**, **Khoury, N.**, **Zoumpourlis, V.**, Papatheodorou, S., Kardamakis, D., Bakandritsos, A., Hatziantoniou, S., Avgoustakis, K.* , (2018). Canagliflozin-loaded magnetic nanoparticles as potential treatment of hypoxic tumors in combination with radiotherapy. **NANOMEDICINE** 13, 2435–2454. <https://doi.org/10.2217/nmm-2018-0145>
- 3) **Athanasopoulou, S.**, **Chondrogianni, N.**, Santoro, A., **Asimaki, K.**, **Delitsikou, V.**, **Voutetakis, K.**, Fabbri, C., Pietruszka, B., Kaluza, J., Franceschi, C., **Gonos, E.S.***, (2018). Beneficial effects of elderly tailored Mediterranean diet on the proteasomal proteolysis. **Frontiers in Physiology** 9. <https://doi.org/10.3389/fphys.2018.00457>
- 4) Avramopoulos, A., Otero, N., Reis, H., Karamanis, P., **Papadopoulos, M.G.***, (2018). A computational study of photonic materials based on Ni bis(dithiolene) fused with benzene, possessing gigantic second hyperpolarizabilities. **Journal of Materials Chemistry C** 6, 91–110. <https://doi.org/10.1039/c7tc05047j>
- 5) Baira, E., Dagla, I., **Siapi, E.**, **Zoumpoulakis, P.**, Simitzis, P., Goliomytis, M., Deligeorgis, S.G., Skaltsounis, A.-L., Gikas, E.* , (2018). UHPLC–HRMS-based tissue untargeted metabolomics study of naringin and hesperidin after dietary supplementation in chickens. **Food Chemistry** 269, 276–285. <https://doi.org/10.1016/j.foodchem.2018.06.146>
- 6) **Baliou, S.**, **Adamaki, M.**, **Kyriakopoulos, A.M.**, Spandidos, D.A., Panayiotidis, M., **Christodoulou, I.**, **Zoumpourlis, V.***, (2018). CRISPR therapeutic tools for complex genetic disorders and cancer (Review). **International Journal of Oncology** 53, 443–468. <https://doi.org/10.3892/ijo.2018.4434>
- 7) **Baliou, S.**, **Adamaki, M.**, **Kyriakopoulos, A.M.**, Spandidos, D.A., Panayiotidis, M., **Chrstodoulou, I.**, **Zoumpourlis, V.***, (2018). Role of the CRISPR system in controlling gene transcription and monitoring cell fate (Review). **Molecular Medicine Reports** 17, 1421–1427. <https://doi.org/10.3892/mmr.2017.8099>

- 8) Berger, E.* , Delpierre, C., Hosnijeh, F.S., Kelly-Irving, M., Portengen, L., Bergdahl, I.A., Johansson, A.-S., Krogh, V., Palli, D., Panico, S., Sacerdote, C., Tumino, R., **Kyrtopoulos, S.A.**, Vineis, P., Chadeau-Hyam, M., Vermeulen, R., Castagné, R., Melin, B., Lenner, P., Bendinelli, B., **Botsivali, M.**, **Chatziioannou, A.**, **Valavanis, I.**, Bodinier, B., Garrido-Manriquez, J., Athersuch, T.J., Liquet, B., Lokhorst, H., **Georgiadis, P.**, Kleinjans, J.C.S., De Kok, T.M.C.M., Keun, H.C., Kelly, R., Hallmans, G., Stephanou, E.G., Myridakis, A., Kogevinas, M., Fazzo, L., De Santis, M., Comba, P., Kiviranta, H., Rantakokko, P., Airaksinen, R., Ruokojarvi, P., Gilthorpe, M., Fleming, S., Fleming, T., Tu, Y.-K., Lundh, T., Chien, K.-L., Chen, W.J., Lee, W.-C., Hsiao, C.K., Kuo, P.-H., Hung, H., Liao, S.-F., (2018). Association between low-grade inflammation and Breast cancer and B-cell Myeloma and Non-Hodgkin Lymphoma: Findings from two prospective cohorts. **Scientific Reports** 8. <https://doi.org/10.1038/s41598-018-29041-1>
- 9) Caini, S.* , Bendinelli, B., Masala, G., Saieva, C., Lundh, T., **Kyrtopoulos, S.A.**, Palli, D., (2018). Predictors of erythrocyte cadmium levels in 454 adults in Florence, Italy. **Science of the Total Environment** 644, 37–44. <https://doi.org/10.1016/j.scitotenv.2018.06.347>
- 10) Campanella, G.* , Gunter, M.J., Polidoro, S., Krogh, V., Palli, D., Panico, S., Sacerdote, C., Tumino, R., Fiorito, G., Guarrera, S., Iacoviello, L., Bergdahl, I.A., Melin, B., Lenner, P., de Kok, T.M.C.M., **Georgiadis, P.**, Kleinjans, J.C.S., **Kyrtopoulos, S.A.**, Bueno-de-Mesquita, H.B., Lillycrop, K.A., May, A.M., Onland-Moret, N.C., Murray, R., Riboli, E., Verschuren, M., Lund, E., Mode, N., Sandanger, T.M., Fiano, V., Trevisan, M., Matullo, G., Froguel, P., Elliott, P., Vineis, P., Chadeau-Hyam, M., (2018). Epigenome-wide association study of adiposity and future risk of obesity-related diseases. **International Journal of Obesity**. <https://doi.org/10.1038/s41366-018-0064-7>
- 11) Cardoso, A.L., Fernandes, A., Aguilar-Pimentel, J.A., de Angelis, M.H., Guedes, J.R., Brito, M.A., Ortolano, S., Pani, G., Athanasopoulou, S., Gonos, E.S., Schosserer, M., Grillari, J., Peterson, P., Tuna, B.G., Dogan, S., Meyer, A., van Os, R., Trendelenburg, A.-U., (2018). Towards frailty biomarkers: Candidates from genes and pathways regulated in aging and age-related diseases. **AGEING RESEARCH REVIEWS** 47, 214–277. <https://doi.org/10.1016/j.arr.2018.07.004>
- 12) Chaari, M., **Theochari, I.**, **Papadimitriou, V.**, **Xenakis, A.**, Ammar, E*., (2018). Encapsulation of carotenoids extracted from halophilic Archaea in oil-in-water (O/W) micro- and nano-emulsions. **Colloids and Surfaces B: Biointerfaces** 161, 219–227. <https://doi.org/10.1016/j.colsurfb.2017.10.042>
- 13) **Chatzidaki, M.D.**, Papadimitriou, K., Alexandraki, V., **Balkiza, F.**, Georgalaki, M., **Papadimitriou, V.**, Tsakalidou, E., **Xenakis, A.***, (2018). Reverse micelles as nanocarriers of nisin against foodborne pathogens. **Food Chemistry** 255, 97–103. <https://doi.org/10.1016/j.foodchem.2018.02.053>
- 14) Cheimonidi, C., Samara, P., Polychronopoulos, P., Tsakiri, E.N., Nikou, T., Myrianthopoulos, V., Sakellaropoulos, T., **Zoumpourlis, V.**, Mikros, E., Papassideri, I., Argyropoulou, A., Halabalaki, M., Alexopoulos, L.G., Skaltsounis, A.-L., Tsitsilonis, O.E., Aligiannis, N.N., Trougakos, I.P.* , (2018). Selective cytotoxicity of the herbal substance acteoside against tumor cells and its mechanistic insights. **Redox Biology** 16, 169–178. <https://doi.org/10.1016/j.redox.2018.02.015>
- 15) Chountoulesi, M., Pippa, N., Pispas, S., **Chrysin, E.D.**, Forys, A., Trzebicka, B., Demetzos, C.* , (2018). Cubic lyotropic liquid crystals as drug delivery carriers: Physicochemical and morphological studies. **INTERNATIONAL JOURNAL OF PHARMACEUTICS** 550, 57–70. <https://doi.org/10.1016/j.ijpharm.2018.08.003>

- 16) Christodoulou, I., Goulielmaki, M., Devetzi, M., Panagiotidis, M., Koliakos, G., **Zoumpourlis, V.***, (2018). Mesenchymal stem cells in preclinical cancer cytotherapy: a systematic review. **STEM CELL RESEARCH & THERAPY** 9. <https://doi.org/10.1186/s13287-018-1078-8>
- 17) Deraos, G., **Kritsi, E.**, Matsoukas, M.-T., Christopoulou, K., Kalbacher, H., **Zoumpoulakis, P.***, Apostolopoulos, V.*, Matsoukas, J., (2018). Design of Linear and Cyclic Mutant Analogues of Dirucotide Peptide (MBP82-98) against Multiple Sclerosis: Conformational and Binding Studies to MHC Class II. **BRAIN SCIENCES** 8. <https://doi.org/10.3390/brainsci8120213>
- 18) **Devetzi, M., Goulielmaki, M., Khoury, N.**, Spandidos, D.A., Sotiropoulou, G., Christodoulou, I., **Zoumpourlis, V.***, (2018). Genetically-modified stem cells in treatment of human diseases: Tissue kallikrein (KLK1)-based targeted therapy (Review). **International Journal of Molecular Medicine** 41, 1177–1186. <https://doi.org/10.3892/ijmm.2018.3361>
- 19) Draganidis, D., Jamurtas, A.Z., Stampoulis, T., Laschou, V.C., Deli, C.K., Georgakouli, K., Papanikolaou, K., Chatzinikolaou, A., Michalopoulou, M., Papadopoulos, C., Tsimeas, P., **Chondrogianni, N.**, Koutedakis, Y., Karagounis, L.G., Fatouros, I.G.* (2018). Disparate habitual physical activity and dietary intake profiles of elderly men with low and elevated systemic inflammation. **Nutrients** 10. <https://doi.org/10.3390/nu10050566>
- 20) Fotiou, M., **Fotakis, C.**, Tsakoumaki, F., Athanasiadou, E., Kyrkou, C., Dimitropoulou, A., **Tsiaka, T.**, Chatziioannou, A.C., Sarafidis, K., Menexes, G., Theodoridis, G., Biliaderis, C.G., **Zoumpoulakis, P.***, Athanasiadis, A.P.* , Michaelidou, A.-M.* (2018). 1H NMR-based metabolomics reveals the effect of maternal habitual dietary patterns on human amniotic fluid profile. **Scientific Reports** 8. <https://doi.org/10.1038/s41598-018-22230-y>
- 21) Fragiadaki, I., Katogiritis, A., **Calogeropoulou, T.**, Brückner, H., Scoulica, E., (2018). Synergistic combination of alkylphosphocholines with peptaibols in targeting *Leishmania infantum* in vitro. **International Journal for Parasitology: Drugs and Drug Resistance** 8, 194–202. <https://doi.org/10.1016/j.ijpddr.2018.03.005>
- 22) Galanos, P., Pappas, G., Polyzos, A., Kotsinas, A., Svolaki, I., Giakoumakis, N.N., Glytsou, C., Pateras, I.S., Swain, U., **Souliotis, V.L.**, Georgakilas, A.G., Geacintov, N., Scorrano, L., Lukas, C., Lukas, J., Livneh, Z., Lygerou, Z., Chowdhury, D., Sørensen, C.S., Bartek, J., Gorgoulis, V.G.* (2018). Mutational signatures reveal the role of RAD52 in p53-independent p21-driven genomic instability. **Genome Biology** 19. <https://doi.org/10.1186/s13059-018-1401-9>
- 23) Giacconi, R.* , Costarelli, L., Piacenza, F., Basso, A., Burkle, A., Moreno-Villanueva, M., Grune, T., Weber, D., Stuetz, W., **Gonos, E.S.**, Schon, C., Grubeck-Loebenstein, B., Sikora, E., Toussaint, O., Debacq-Chainiaux, F., Franceschi, C., Hervonen, A., Slagboom, E., Ciccarone, F., Zampieri, M., Caiafa, P., Jansen, E., Dolle, M.E.T., Breusing, N., Mocchegiani, E., Malavolta, M., (2018). Zinc-Induced Metallothionein in Centenarian Offspring From a Large European Population: The MARK-AGE Project. **The journals of gerontology. Series A, Biological sciences and medical sciences** 73, 745–753. <https://doi.org/10.1093/gerona/glx192>
- 24) Giannakourou, M., Strati, I.F., Manika, E.-M., Resiti, V., Tataridis, P., **Zoumpoulakis, P.**, Sinanoglou, V.J.* (2018) Assessment of phenolic content, antioxidant activity, colour and sensory attributes of wood aged “tsipouro”, **CURRENT RESEARCH IN NUTRITION AND FOOD SCIENCE** 6, 2, 2018,318-328, <https://doi.org/10.12944/CRNFSJ.6.2.07>

- 25) **Golfomitsou, I., Mitsou, E., Xenakis, A., Papadimitriou, V***, (2018). Development of food grade O/W nanoemulsions as carriers of vitamin D for the fortification of emulsion based food matrices: A structural and activity study. **Journal of Molecular Liquids** 268, 734–742.
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- 27) **Gonos, E.S.**, Kapetanou, M., Sereikaite, J., Bartosz, G., Naparło, K., Grzesik, M., Sadowska-Bartos, I., (2018). Origin and pathophysiology of protein carbonylation, nitration and chlorination in age-related brain diseases and aging. **Aging** 10, 868–901. <https://doi.org/10.18632/aging.101450>
- 28) Igoumenidis, P.E., **Zoumpoulakis, P.**, Karathanos, V.T.*, (2018). Physicochemical interactions between rice starch and caffeic acid during boiling. **Food Research International** 109, 589–595.
<https://doi.org/10.1016/j.foodres.2018.04.062>
- 29) Jeong, A.*, Fiorito, G., Keski-Rahkonen, P., Imboden, M., Kiss, A., Robinot, N., Gmuender, H, Vlaanderen, J., Vermeulen, R., **Kyrtopoulos, S.**, Herceg, Z., Ghantous, A., Lovison, G., Galassi, C., Ranzani, A., Krogh, V., Grioni, S., Agnoli, C., Sacerdote, C., Mostafavi, N., Naccarati, A., Scalbert, A., Vineis, P., Probst-Hensch, N., EXPOOMICS Consortium, (2018). Perturbation of metabolic pathways mediates the association of air pollutants with asthma and cardiovascular diseases. **Environment International** 119, 334–345. <https://doi.org/10.1016/j.envint.2018.06.025>
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- 31) **Kontogianni, G., Piroti, G.**, Maglogiannis, I., **Chatziioannou, A.***, **Papadodima, O.***, (2018). Dissecting the mutational landscape of cutaneous melanoma: An omic analysis based on patients from Greece. **Cancers** 10. <https://doi.org/10.3390/cancers10040096>
- 32) **Kostelidou, K., Matis, I., Skretas, G.***, (2018). Microbial Genetic Screens for Monitoring Protein Misfolding Associated with Neurodegeneration: Tools for Identifying Disease-Relevant Genes and for Screening Synthetic and Natural Compound Libraries for the Discovery of Potential Therapeutics. **CURRENT PHARMACEUTICAL DESIGN** 24, 2055–2075.
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- 36) **Margariti, M., Goulielmaki, M.**, Kyriakopoulos, A., Christodoulou, I., **Zoumpourlis, V.***, (2018). Unraveling the role of autophagy in cancer: Cellular protection or cytotoxicity? **Archives of Hellenic Medicine** 35, 50–56.
- 37) Mitsiogianni, M., Amery, T., Franco, R., **Zoumpourlis, V.**, Pappa, A., Panayiotidis, M.I., (2018). From chemo-prevention to epigenetic regulation: The role of isothiocyanates in skin cancer prevention. **Pharmacology and Therapeutics**. <https://doi.org/10.1016/j.pharmthera.2018.06.001>
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- 40) **Papaevgeniou, N., Chondrogianni, N.***, (2018). Anti-aging and Anti-aggregation Properties of Polyphenolic Compounds in *C. elegans*. **CURRENT PHARMACEUTICAL DESIGN** 24, 2107–2120. <https://doi.org/10.2174/1381612824666180515145652>
- 41) Papanikolaou, N.E., **Kalaitzaki, A.**, Karamaouna, F., Michaelakis, A., **Papadimitriou, V.**, Dourtoglou, V., Papachristos, D.P.* , (2018). Nano-formulation enhances insecticidal activity of natural pyrethrins against *Aphis gossypii* (Hemiptera: Aphididae) and retains their harmless effect to non-target predators. **Environmental Science and Pollution Research** 25, 10243–10249. <https://doi.org/10.1007/s11356-017-8596-2>
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