

PUBLICATIONS 2015

ORIGINAL PUBLICATIONS AND REVIEWS

- 1) Begum, J.; Skamnaki, V. T.; Moffatt, C.; Bischler, N.; Sarrou, J.; Skaltsounis, A. L.; Leonidas, D. D.; **Oikonomakos, N. G.**; Hayes, J. M. An Evaluation of Indirubin Analogues as Phosphorylase Kinase Inhibitors. *J. Mol. Graph. Model.* (2015), *61*, 231–242. <https://doi.org/10.1016/j.jmgm.2015.07.010>.

- 2) Buerkle, A.; Moreno-Villanueva, M.; Bernhard, J.; Blasco, M.; Zondag, G.; Hoeijmakers, J. H. J.; Toussaint, O.; Grubeck-Loebenstein, B.; Mocchegiani, E.; Collino, S.; **Gonos, E. S.**; Sikora, E.; Gradinaru, D.; Dolle, M.; Salmon, M.; Kristensen, P.; Griffiths, H. R.; Libert, C.; Grune, T.; T.; Breusing, N.; Simm, A.; Franceschi, C.; Capri, M.; Talbot, D.; Caiafa, P.; Friguet, B.; Slagboom, P. E.; Hervonen, A.; Hurme, M.; Aspinall, R. MARK-AGE Biomarkers of Ageing. *Mech. Ageing Dev.* (2015), *151* (SI), 2–12. <https://doi.org/10.1016/j.mad.2015.03.006>.

- 3) Capri, M.; Moreno-Villanueva, M.; Cevenini, E.; Pini, E.; Scurti, M.; Borelli, V.; Palmas, M. G. M. G.; Zoli, M.; Schön, C.; Siepelmeier, A.; Bernhardt, J.; Fiegl, S.; Zondag, G.; de Craen, A. J. M. A. J. M.; Hervonen, A.; Hurme, M.; Sikora, E.; **Gonos, E. S.**; **Voutetakis, K.**; et al. MARK-AGE Population: From the Human Model to New Insights. *Mech. Ageing Dev.* (2015), *151*, 13–17. <https://doi.org/10.1016/j.mad.2015.03.010>.

- 4) Chambers, J. C. J. C.; Loh, M.; Lehne, B.; Drong, A.; Kriebel, J.; Motta, V.; Wahl, S.; Elliott, H. R. H. R.; Rota, F.; Scott, W. R. W. R.; Zhang, W.; Tan, S. T. S. T.; Campanella, G.; Chadeau-Hyam, M.; Yengo, L.; Richmond, R. C. R. C.; Adamowicz-Brice, M.; Afzal, U.; Bozaoglu, K.; Mok, Z. Y.; Ng, H. K.; Pattou, F.; Prokisch, H.; Rozario, M. A.; Tarantini, L.; Abbott, J.; Ala-Korpela, M.; Albetti, B.; Ammerpohl, O.; Bertazzi, P. A.; Blancher, C.; Caiazzo, R.; Danesh, J.; Gaunt, T. R.; de Lusignan, S.; Gieger, C.; Illig, T.; Jha, S.; Jones, S.; Jowett, J.; Kangas, A. J.; Kasturiratne, A.; Kato, N.; Kotea, N.; Kowlessur, S.; Pitkaniemi, J.; Punjabi, P.; Saleheen, D.; Schafmayer, C.; Soininen, P.; Tai, E. S.; Thorand, B.; Tuomilehto, J.; Wickremasinghe, A. R.; **Kyrtopoulos, S. A.**; Aitman, T. J.; Herder, C.; Hampe, J.; Cauchi, S.; Relton, C. L.; Froguel, P.; Soong, R.; Vineis, P.; Jarvelin, M. R.; Scott, J.; Grallert, H.; Bollati, V.; Elliott, P.; McCarthy, M. I.; Kooner, J. S. Epigenome-Wide Association of DNA Methylation Markers in Peripheral Blood from Indian Asians and Europeans with Incident Type 2 Diabetes: A Nested Case-Control Study. *Lancet Diabetes Endocrinol.* (2015), *3* (7), 526–534. [https://doi.org/10.1016/S2213-8587\(15\)00127-8](https://doi.org/10.1016/S2213-8587(15)00127-8).

- 5) Chatzidaki, M. D.; Mitsou, E.; Yagmur, A.; **Xenakis, A.**; **Papadimitriou, V.** Formulation and Characterization of Food-Grade Microemulsions as Carriers of Natural Phenolic Antioxidants. *Colloids Surfaces A Physicochem. Eng. Asp.* (2015), *483*, 130–136. <https://doi.org/10.1016/j.colsurfa.2015.03.060>.

- 6) **Chondrogianni, N.**; Georgila, K.; Kourtis, N.; Tavernarakis, N.; **Gonos, E. S.** 20S Proteasome Activation Promotes Life Span Extension and Resistance to Proteotoxicity in *Caenorhabditis Elegans*. *FASEB J.* (2015), 29 (2), 611–622. <https://doi.org/10.1096/fj.14-252189>.
- 7) **Chondrogianni, N.**; **Voutetakis, K.**; Kapetanou, M.; Delitsikou, V.; Papaevgeniou, N.; Sakellari, M.; Lefaki, M.; Filippopoulou, K.; Gonos, E. S. Proteasome Activation: An Innovative Promising Approach for Delaying Aging and Retarding Age-Related Diseases. *Ageing Res. Rev.* (2015), 23 (PA), 37–55. <https://doi.org/10.1016/j.arr.2014.12.003>.
- 8) Dhimolea, E.; Tiniakos, D. G.; Chantzi, N. I.; Goutas, N.; Vassilaros, S. D.; **Mitsiou, D. J.**; **Alexis, M. N.** Estrogen Receptors B1 and B2 Are Associated with Distinct Responses of Estrogen Receptor α -Positive Breast Carcinoma to Adjuvant Endocrine Therapy. *Cancer Lett.* (2015), 358 (1), 37–42. <https://doi.org/10.1016/j.canlet.2014.12.022>.
- 9) Gabriel, C.; Vangelis, A. A.; Raptopoulou, C. P.; Terzis, A.; Psycharis, V.; **Zervou, M.**; Bertmer, M.; Salifoglou, A. Structural-Spectrochemical Correlations of Variable Dimensionality Crystalline Metal-Organic Framework Materials in Hydrothermal Reactivity Patterns of Binary-Ternary Systems of Pb(II) with (a)Cyclic (Poly)Carboxylate and Aromatic Chelator Ligands. *Cryst. Growth Des.* (2015), 15 (11), 5310–5326. <https://doi.org/10.1021/acs.cgd.5b00861>.
- 10) **Gonos, E.** Proteasome Activation Delays Aging and Protects against Proteotoxicity in Neurodegenerative Disease. *Adv. Exp. Med. Biol.* (2015), 821, 7. https://doi.org/10.1007/978-3-319-08939-3_4.
- 11) Guida, F.; Sandanger, T. M. T. M.; Castagn??, R.; Campanella, G.; Polidoro, S.; Palli, D.; Krogh, V.; Tumino, R.; Sacerdote, C.; Panico, S.; Severi, G.; **Kyrtopoulos, S. A.**; **Georgiadis, P.**; Vermeulen, R. C. H. R. C. H.; Lund, E.; Vineis, P.; Chadeau-Hyam, M.; Castagné, R.; Campanella, G.; et al. Dynamics of Smoking-Induced Genome-Wide Methylation Changes with Time since Smoking Cessation. *Hum. Mol. Genet.* (2015), 24 (8), 2349–2359. <https://doi.org/10.1093/hmg/ddu751>.
- 12) Jansen, E.; Beekhof, P.; Cremers, J.; Weinberger, B.; Fiegl, S.; Toussaint, O.; Bernhard, J.; **Gonos, E.**; Capri, M.; Franceschi, C.; Sikora, E.; Moreno-Villanueva, M.; Breusing, N.; Grune, T.; Bürkle, A.; Dollé, M. E. T. M. E. T. Quality Control Data of Physiological and Immunological Biomarkers Measured in Serum and Plasma. *Mech. Ageing Dev.* (2015), 151, 54–59. <https://doi.org/10.1016/j.mad.2015.06.004>.
- 13) Joas, A.; Knudsen, L. E.; Kolossa-Gehring, M.; Sepai, O.; Casteleyn, L.; Schoeters, G.; Angerer, J.; Castaño, A.; Aerts, D.; Biot, P.; Horvat, M.; Bloemen, L.; Reis, M. F.; Lupsa, I. R.; Katsonouri, A.; Cerna, M.; Berglund, M.; Crettaz, P.; Rudnai, P.; Halzlova, K.; Mulcahy, M.; Gutleb, A. C.; Fischer, M. E.; Becher, G.; Fréry, N.; Jensen, G.; Van Vliet, L.; Koch, H. M.; Hond, E. Den; Fiddicke, U.; Esteban, M.; Exley, K.; Schwedler, G.; Seiwert, M.; Ligocka, D.; Hohenblum, P.; **Kyrtopoulos, S.**; **Botsivali, M.**; DeFelip, E.; Guillou, C.; Reniero, F.; Grazuleviciene, R.; Veidebaum, T.; Mørck, T. A.; Nielsen, J. K. S.; Jensen, J. F.; Rivas, T. C.; Sanchez, J.; Koppen, G.; Smolders, R.; Kozepesy, S.; Hadjipanayis, A.; Krskova, A.; Mannion, R.; Jakubowski, M.; Fucic, J. A.; Pereira-Miguel, J.; Gurzau, A. E.; Jajcaj, M.; Mazej, D.; Tratnik, J. S.;

Lehmann, A.; Larsson, K.; Dumez, B.; Joas, R. Policy Recommendations and Cost Implications for a More Sustainable Framework for European Human Biomonitoring Surveys. *Environ. Res.* **2015**, *141*, 42–57 <https://doi.org/10.1016/j.envres.2014.10.012>.

14) Kalaitzaki, A.; **Xenakis, A.**; **Papadimitriou, V.** Highly Water Dilutable Microemulsions: A Structural Study. *Colloid Polym. Sci.* (2015), *293* (4), 1111–1119. <https://doi.org/10.1007/s00396-014-3496-1>.

15) Kalaitzaki, A.; Papanikolaou, N. E.; Karamaouna, F.; Dourtoglou, V.; **Xenakis, A.**; **Papadimitriou, V.** Biocompatible Colloidal Dispersions as Potential Formulations of Natural Pyrethrins: A Structural and Efficacy Study. *Langmuir* (2015), *31* (21), 5722–5730. <https://doi.org/10.1021/acs.langmuir.5b00246>.

16) Kato, N.; Loh, M.; Takeuchi, F.; Verweij, N.; Wang, X.; Zhang, W.; Kelly, T. N.; Saleheen, D.; Lehne, B.; Leach, I. M. I. M.; Drong, A. W. A. W.; Abbott, J.; Wahl, S.; Tan, S. T. S. T.; Scott, W. R. W. R.; Campanella, G.; Chadeau-Hyam, M.; Afzal, U.; Ahluwalia, T. S. T. S.; Bonder, M. J.; Chen, P.; Dehghan, A.; Edwards, T. L.; Esko, T.; Go, M. J.; Harris, S. E.; Hartiala, J.; Kasela, S.; Kasturiratne, A.; Khor, C.-C.; Kleber, M. E.; Li, H.; Mok, Z. Y.; Nakatochi, M.; Sapari, N. S.; Saxena, R.; Stewart, A. F. R.; Stolk, L.; Tabara, Y.; Teh, A. L.; Wu, Y.; Wu, J.-Y.; Zhang, Y.; Aits, I.; Da Silva Couto Alves, A.; Das, S.; Dorajoo, R.; Hopewell, J. C.; Kim, Y. K.; Koivula, R. W.; Luan, J.; Lyytikäinen, L.-P.; Nguyen, Q. N.; Pereira, M. A.; Postmus, I.; Raitakari, O. T.; Bryan, M. S.; Scott, R. A.; Sorice, R.; Tragante, V.; Traglia, M.; White, J.; Yamamoto, K.; Zhang, Y.; Adair, L. S.; Ahmed, A.; Akiyama, K.; Asif, R.; Aung, T.; Barroso, I.; Bjornes, A.; Braun, T. R.; Cai, H.; Chang, L.-C.; Chen, C.-H.; Cheng, C.-Y.; Chong, Y.-S.; Collins, R.; Courtney, R.; Davies, G.; Delgado, G.; Do, L. D.; Doevendans, P. A.; Gansevoort, R. T.; Gao, Y.-T.; Grammer, T. B.; Grarup, N.; Grewal, J.; Gu, D.; Wander, G. S.; Hartikainen, A.-L.; Hazen, S. L.; He, J.; Heng, C.-K.; Hixson, J. E.; Hofman, A.; Hsu, C.; Huang, W.; Husemoen, L. L. N.; Hwang, J.-Y.; Ichihara, S.; Igase, M.; Isono, M.; Justesen, J. M.; Katsuya, T.; Kibriya, M. G.; Kim, Y. J.; Kishimoto, M.; Koh, W.-P.; Kohara, K.; Kumari, M.; Kwek, K.; Lee, N. R.; Lee, J.; Liao, J.; Lieb, W.; Liewald, D. C. M.; Matsubara, T.; Matsushita, Y.; Meitinger, T.; Mihailov, E.; Milani, L.; Mills, R.; Mononen, N.; Müller-Nurasyid, M.; Nabika, T.; Nakashima, E.; Ng, H. K.; Nikus, K.; Nutile, T.; Ohkubo, T.; Ohnaka, K.; Parish, S.; Paternoster, L.; Peng, H.; Peters, A.; Pham, S. T.; Pinidiyapathirage, M. J.; Rahman, M.; Rakugi, H.; Rolandsson, O.; Rozario, M. A.; Ruggiero, D.; Sala, C. F.; Sarju, R.; Shimokawa, K.; Snieder, H.; Sparsø, T.; Spiering, W.; Starr, J. M.; Stott, D. J.; Stram, D. O.; Sugiyama, T.; Szymczak, S.; Tang, W. H. W.; Tong, L.; Trompet, S.; Turjanmaa, V.; Ueshima, H.; Uitterlinden, A. G.; Umemura, S.; Vaarasmaki, M.; van Dam, R. M.; van Gilst, W. H.; van Veldhuisen, D. J.; Viikari, J. S.; Waldenberger, M.; Wang, Y.; Wang, A.; Wilson, R.; Wong, T.-Y.; Xiang, Y.-B.; Yamaguchi, S.; Ye, X.; Young, R. D.; Young, T. L.; Yuan, J.-M.; Zhou, X.; Asselbergs, F. W.; Ciullo, M.; Clarke, R.; Deloukas, P.; Franke, A.; Franks, P. W.; Franks, S.; Friedlander, Y.; Gross, M. D.; Guo, Z.; Hansen, T.; Jarvelin, M.-R.; Jørgensen, T.; Jukema, J. W.; Kähönen, M.; Kajio, H.; Kivimaki, M.; Lee, J.-Y.; Lehtimäki, T.; Linneberg, A.; Miki, T.; Pedersen, O.; Samani, N. J.; Sørensen, T. I. A.; Takayanagi, R.; Toniolo, D.; Ahsan, H.; Allayee, H.; Chen, Y.-T.; Danesh, J.; Deary, I. J.; Franco, O. H.; Franke, L.; Heijman, B. T.; Holbrook, J. D.; Isaacs, A.; Kim, B.-J.; Lin, X.; Liu, J.; März, W.; Metspalu, A.; Mohlke, K. L.; Sanghera, D. K.; Shu, X.-O.; van Meurs, J. B. J.; Vithana, E.; Wickremasinghe, A. R.; Wijmenga, C.; Wolfenbuttel, B. H. W.; Yokota, M.; Zheng, W.; Zhu, D.; Vineis, P.; **Kyrtpoulos, S. A.**; Kleinjans, J. C. S.; McCarthy, M. I.; Soong, R.; Gieger, C.; Scott, J.; Teo, Y.-Y.; He, J.; Elliott, P.; Tai, E. S.; van der Harst, P.; Kooner, J. S.; Chambers, J. C. Trans-Ancestry Genome-Wide Association Study

Identifies 12 Genetic Loci Influencing Blood Pressure and Implicates a Role for DNA Methylation. *Nat. Genet.* (2015), 47 (11), 1282–1293. <https://doi.org/10.1038/ng.3405>.

17) Kellici, T. F.; Ntountaniotis, D.; Leonis, G.; Chatziathanasiadou, M.; Chatzikonstantinou, A. V.; Becker-Baldus, J.; Glaubitz, C.; Tzakos, A. G.; Viras, K.; Chatzigeorgiou, P.; Tzimas, S.; Kefala, E.; Valsami, G.; Archontaki, H.; **Papadopoulos, M. G.**; Mavromoustakos, T. Investigation of the Interactions of Silibinin with 2-Hydroxypropyl-Beta-Cyclodextrin through Biophysical Techniques and Computational Methods. *Mol. Pharm.* (2015), 12 (3), 954–965. <https://doi.org/10.1021/mp5008053>.

18) Lantzouraki, D. Z.; Sinanoglou, V. J.; **Zoumpoulakis, P.**; Glamocilija, J.; Ciric, A.; Sokovic, M.; **Heropoulos, G.**; Proestos, C. Total Phenolic Content, Antioxidant Capacity and Phytochemical Profiling of Grape and Pomegranate Wines. *RSC Adv.* (2015), 5 (123), 101683–101692 c10.1039/C5RA20064.

19) Lantzouraki, D. Z.; Sinanoglou, V. J.; **Zoumpoulakis, P. G.**; Glamočlija, J.; Ćirić, A.; Soković, M.; **Heropoulos, G.**; Proestos, C. Antiradical–antimicrobial Activity and Phenolic Profile of Pomegranate (*Punica Granatum* L.) Juices from Different Cultivars: A Comparative Study. *RSC Adv.* (2015), 5 (4), 2602–2614 doi.org/10.1039/C4RA11795F.

20) Leonis, G.; Avramopoulos, A.; Papavasileiou, K. D.; **Reis, H.**; Steinbrecher, T.; **Papadopoulos, M. G.** A Comprehensive Computational Study of the Interaction between Human Serum Albumin and Fullerenes. *J. Phys. Chem. B* (2015), 119 (48), 14971–14985. <https://doi.org/10.1021/acs.jpcc.5b05998>.

21) Mamais, M.; Kouloumoundra, V.; Smyrli, E.; Grammatopoulos, P.; **Chrysina, E. D.**; Gimisis, T. Synthesis of N-4-Aryl-Beta-D-Glucopyranosylcytosines: A Methodology Study. *TETRAHEDRON Lett.* (2015), 56 (41), 5549–5552. <https://doi.org/10.1016/j.tetlet.2015.08.037>.

22) Markou, G.; Iconomou, D.; **Sotiroudis, T.**; Israilides, C.; Muylaert, K.; **Sotiroudis, G.**; Israilides, C.; Muylaert, K. Exploration of Using Stripped Ammonia and Ash from Poultry Litter for the Cultivation of the Cyanobacterium *Arthrospira Platensis* and the Green Microalga *Chlorella Vulgaris*. *Bioresour. Technol.* (2015), 196, 459–468. <https://doi.org/10.1016/j.biortech.2015.08.007>.

23) Mavrokefalos, N.; Myriantopoulos, V.; Chajistamatiou, A. S.; **Chrysina, E. D.**; Mikros, E. Discovery of the Glycogen Phosphorylase-Modulating Activity of a Resveratrol Glucoside by Using a Virtual Screening Protocol Optimized for Solvation Effects. *Planta Med.* (2015), 81 (6), 507–516. <https://doi.org/10.1055/s-0035-1545910>.

24) Michailidi, C.; Theocharis, S.; Tsourouflis, G.; **Pletsa, V.**; Kouraklis, G.; Patsouris, E.; Papavassiliou, A. G.; Troungos, C. Expression and Promoter Methylation Status of HMLH1, MGMT, APC, and CDH1 Genes in Patients with Colon Adenocarcinoma. *Exp. Biol. Med.* (2015), 240 (12), 1599–1605. <https://doi.org/10.1177/1535370215583800>.

25) Minic, S. L.; Milcic, M.; Stanic-Vucinic, D.; Radibratovic, M.; **Sotiroudis, T. G.**; Nikolic, M. R.; Velickovic, T. Ć. Phycocyanobilin, a Bioactive Tetrapyrrolic Compound of Blue-Green Alga *Spirulina*,

Binds with High Affinity and Competes with Bilirubin for Binding on Human Serum Albumin. *RSC Adv.* (2015), 5 (76), 61787–61798. <https://doi.org/10.1039/C5RA05534B>.

26) Mostafavi, N.; Vlaanderen, J.; Chadeau-Hyam, M.; Beelen, R.; Modig, L.; Palli, D.; Bergdahl, I. A.; Vineis, P.; Hoek, G.; **Kyrtopoulos, S. A.**; Vermeulen, R. Inflammatory Markers in Relation to Long-Term Air Pollution. *Environ. Int.* (2015), 81. <https://doi.org/10.1016/j.envint.2015.04.003>.

27) Pedersen, M.; Mendez, M. A. M. A.; Schoket, B.; Godschalk, R. W. R. W.; Espinosa, A.; Landström, A.; Villanueva, C. M. C. M.; Merlo, D. F. D. F.; Fthenou, E.; Gracia-Lavedan, E.; van Schooten, F. J. F. J.; Hoek, G.; Brunborg, G.; Meltzer, H. M. H. M.; Alexander, J.; Nielsen, J. K. J. K.; Sunyer, J.; Wright, J.; Kovács, K.; de Hoogh, K.; Gutzkow, K. B.; Hardie, L. J.; Chatzi, L.; Knudsen, L. E.; Anna, L.; Ketzel, M.; Haugen, M.; Botsivali, M.; Nieuwenhuijsen, M. J.; Cirach, M.; Toledano, M. B.; Smith, R. B.; Fleming, S.; Agramunt, S.; **Kyrtopoulos, S. A.**; Lukács, V.; Kleinjans, J. C.; Segerbäck, D.; Kogevinas, M. Environmental, Dietary, Maternal, and Fetal Predictors of Bulky DNA Adducts in Cord Blood: A European Mother–child Study (NewGeneris). *Environ. Health Perspect.* (2015), 123 (4), 374–380. <https://doi.org/10.1289/ehp.1408613>.

28) Peppas, V. I.; Venkat, H.; Kantsadi, A. L.; Inamdar, S. R.; Bhat, G. G.; Eligar, S.; Shivanand, A.; Chachadi, V. B.; Satisha, G. J.; Swamy, B. M.; Skamnaki, V. T.; **Zographos, S. E.**; Leonidas, D. D. Molecular Cloning, Carbohydrate Specificity and the Crystal Structure of Two Sclerotium Rolfsii Lectin Variants. *Molecules* (2015), 20 (6), 10848–10865. <https://doi.org/10.3390/molecules200610848>.

29) Pilalis, E.; Koutsandreas, T.; Valavanis, I.; Athanasiadis, E.; Spyrou, G.; **Chatziioannou, A.** KENeV: A Web-Application for the Automated Reconstruction and Visualization of the Enriched Metabolic and Signaling Super-Pathways Deriving from Genomic Experiments. *Comput. Struct. Biotechnol. J.* (2015), 13, 248–255. <https://doi.org/10.1016/j.csbj.2015.03.009>.

30) Proestos, C.; Sflomos, K.; **Zoumpoulakis, P.**; Tatarides, P., Sinanoglou, V.J. Botanical Extracts Used as Wine Preservatives, *Int. J. Agric. Sci. Food Technol.*, 2015 1(1): 007-011. <https://doi.org/10.17352/2455-815X.000003>

31) Reis, H.; Rasulev, B.; **Papadopoulos, M. G.**; Leszczynski, J. Reliable but Timesaving: In Search of an Efficient Quantum-Chemical Method for the Description of Functional Fullerenes. *Curr. Top. Med. Chem.* (2015), 15 (18), 0–0. <https://doi.org/http://dx.doi.org/10.2174/1568026615666150506150601>.

32) Ramaswamy, S.; Sleiman, M. H.; Masuyer, G.; **Arbez-Gindre, C.**; **Micha-Screttas, M.**; **Calogeropoulou, T.**; **Steele, B. R.**; Acharya, K. R. Structural Basis of Multivalent Galactose-Based Dendrimer Recognition by Human Galectin-7. *FEBS J.* 2015, 282 (2), 372–387 <https://doi.org/10.1111/febs.13140>.

33) Rizos, E.; Siafakas, N.; Katsantoni, E.; Skourti, E.; Salpeas, V.; Rizos, I.; Tsoporis, J. N. J. N.; Kastania, A.; Filippopoulou, A.; Xiros, N.; Margaritis, D.; Parker, T. G. T. G.; Papageorgiou, C.;

Zoumpourlis, V. Let-7, Mir-98 and Mir-181 as Biomarkers for Cancer and Schizophrenia. *PLoS One* (2015), 10 (4). <https://doi.org/10.1371/journal.pone.0123522>.

34) Roidaki, A.; **Zoumpoulakis, P.G.** and Proestos, C. Comparison of Extraction Methods for the Determination of Antioxidant Activity in Extracts of Hippophae Rhamnoides L. and Lippia Citriodora. The Effect of Seasonal Collection, *Austin J. Nutr. Food Sci.*, (2015), 3, 1–8.

35) Rudrapaul, P.; Kyriakopoulos, A. M.; De, U. C.; **Zoumpourlis, V.**; Dinda, B. New Flavonoids from the Fruits of Cornus Mas, Cornaceae. *Phytochem. Lett.* (2015), 11, 292–295. <https://doi.org/10.1016/j.phytol.2015.01.011>.

36) Sadeghpour, A.; Rappolt, M.; Ntountaniotis, D.; Chatzigeorgiou, P.; Viras, K.; Megariotis, G.; **Papadopoulos, M. G.**; Siapi, E.; Mali, G.; Mavromoustakos, T. Comparative Study of Interactions of Aliskiren and AT1 Receptor Antagonists with Lipid Bilayers. *Biochim. Biophys. Acta* (2015), 1848 (4), 984–994. <https://doi.org/10.1016/j.bbamem.2014.12.004>.

37) Sinanoglou, V. J.; **Zoumpoulakis, P.**; Heropoulos, G.; Proestos, C.; Ćirić, A.; Petrovic, J.; Glamoclija, J.; Sokovic, M. Lipid and Fatty Acid Profile of the Edible Fungus Laetiporus Sulphurous. Antifungal and Antibacterial Properties. *J. Food Sci. Technol.* (2015), 52 (6). <https://doi.org/10.1007/s13197-014-1377-8>.

38) Sinanoglou, V. J. V. J.; Koutsouli, P.; Fotakis, C.; **Sotiropoulou, G.**; Cavouras, D.; Bizelis, I. Assessment of Lactation Stage and Breed Effect on Sheep Milk Fatty Acid Profile and Lipid Quality Indices. *Dairy Sci. Technol.* (2015), 95 (4), 509–531. <https://doi.org/10.1007/s13594-015-0234-5>.

39) Sinanoglou, V. J. V. J.; Strati, I. F. I. F.; Kokkotou, K.; Lantzouraki, D.; Makris, C.; **Zoumpoulakis, P.** GC-FID and NMR Spectroscopic Studies on Gamma Irradiated Walnut Lipids. *J. Spectrosc.* (2015), 2015. <https://doi.org/10.1155/2015/532762>.

40) Sleiman, M. H.; Csonka, R.; **Arbez-Gindre, C.**; Heropoulos, G. A.; Calogeropoulou, T.; Signorelli, M.; Schiraldi, A.; **Steele, B. R.**; Fessas, D.; **Micha-Screttas, M.** Binding and Stabilisation Effects of Glycodendritic Compounds with Peanut Agglutinin. *Int. J. Biol. Macromol.* (2015), 80, 692–701. <https://doi.org/10.1016/j.ijbiomac.2015.07.036>.

41) **Souliotis, V. L.**; Sfikakis, P. P. Increased DNA Double-Strand Breaks and Enhanced Apoptosis in Patients with Lupus Nephritis. *Lupus* (2015), 24 (8), 804–815. <https://doi.org/10.1177/0961203314565413>.

42) Stefanou, D. T.; Bamias, A.; Episkopou, H.; **Kyrtopoulos, S. A.**; Likka, M.; Kalampokas, T.; Photiou, S.; Gavalas, N.; Sfikakis, P. P.; Dimopoulos, M. A.; Souliotis, V. L. Aberrant Dna Damage Response Pathways May Predict the Outcome of Platinum Chemotherapy in Ovarian Cancer. *PLoS One* (2015), 10 (2). <https://doi.org/10.1371/journal.pone.0117654>.

43) Tenchiu, A. C.; Ventouri, I. K.; Ntasi, G.; Palles, D.; Kokotos, G.; Kovala-Demertzi, D.; **Kostas, I. D.** Synthesis of a Palladium Complex with a Beta-D-Glucopyranosylthiosemicarbazone and Its

Application in the Suzuki-Miyaura Coupling of Aryl Bromides with Phenylboronic. *Inorganica Chim. Acta* (2015), 435, 142–146. <https://doi.org/10.1016/j.ica.2015.06.019>.

44) Tsiaka, T.; **Zoumpoulakis, P.**; Sinanoglou, V. J.; Makris, C.; Heropoulos, G. A.; Calokerinos, A. C. Response Surface Methodology toward the Optimization of High-Energy Carotenoid Extraction from *Aristeus Antennatus* Shrimp. *Anal. Chim. Acta* (2015), 877, 100–110. <https://doi.org/10.1016/j.aca.2015.03.051>.

45) Tsinisizeli, N.; **Sotiroudis, G.**; **Xenakis, A.**; Lykeridou, K. E. Determination of Nicotine and Cotinine in Meconium from Greek Neonates and Correlation with Birth Weight and Gestational Age at Birth. *Chemosphere* 2015, 119, 1200–1207 <https://doi.org/10.1016/j.chemosphere.2014.09.094>

46) Tzoupis, H.; Leonis, G.; Avramopoulos, A.; Reis, H.; Czynnikowska, Z.; Zerva, S.; Vergadou, N.; Peristeras, L. D.; Papavasileiou, K. D.; **Alexis, M. N.**; Mavromoustakos, T.; **Papadopoulos, M. G.** Elucidation of the Binding Mechanism of Renin Using a Wide Array of Computational Techniques and Biological Assays. *J. Mol. Graph. Model.* (2015), 62, 138–149. <https://doi.org/10.1016/j.jmgm.2015.09.015>.

47) Vafeiadi, M.; Georgiou, V.; Chalkiadaki, G.; Rantakokko, P.; Kiviranta, H.; Karachaliou, M.; Fthenou, E.; Venihaki, M.; Sarri, K.; Vassilaki, M.; **Kyrtopoulos, S. A.**; Oken, E.; Kogevinas, M.; Chatzi, L. Association of Prenatal Exposure to Persistent Organic Pollutants with Obesity and Cardiometabolic Traits in Early Childhood: The Rhea Mother–child Cohort (Crete, Greece). *Environ. Health Perspect.* (2015), 123 (10), 1015–1021. <https://doi.org/10.1289/ehp.1409062>.

48) Valavanis, I.; Pilalis, E.; **Georgiadis, P.**; **Kyrtopoulos, S.**; **Chatziioannou, A.** Cancer Biomarkers from Genome-Scale DNA Methylation: Comparison of Evolutionary and Semantic Analysis Methods. *Microarrays* (Basel, Switzerland) (2015), 4 (4), 647–670 <https://doi.org/10.3390/microarrays4040647>.

49) Valavanis, I.; Maglogiannis, I.; Chatziioannou, A. A. Exploring Robust Diagnostic Signatures for Cutaneous Melanoma Utilizing Genetic and Imaging Data. *IEEE J. Biomed. Heal. Informatics* (2015), 19 (1), 190–198 <https://doi.org/10.1109/JBHI.2014.2336617>

50) Vanhooren, V.; Navarrete Santos, A.; **Voutetakis, K.**; Petropoulos, I.; Libert, C.; Simm, A.; **Gonos, E. S.**; Friguet, B. Protein Modification and Maintenance Systems as Biomarkers of Ageing. *Mech. Ageing Dev.* (2015), 151, 71–84. <https://doi.org/10.1016/j.mad.2015.03.009>.

51) **Voutetakis, K.**; **Chatziioannou, A.**; **Gonos, E. S.**; Trougakos, I. P. Comparative Meta-Analysis of Transcriptomics Data during Cellular Senescence and in Vivo Tissue Ageing. *Oxid. Med. Cell. Longev.* (2015), 2015. <https://doi.org/10.1155/2015/732914>.

52) Vrontaki, E.; Leonis, G.; Avramopoulos, A.; **Papadopoulos, M. G.**; Simčič, M.; Grdadolnik, S. G.; Afantitis, A.; Melagraki, G.; Hadjikakou, S. K.; Mavromoustakos, T. Stability and Binding Effects of Silver(I) Complexes at Lipoxigenase-1. *J. Enzyme Inhib. Med. Chem.* (2015), 30 (4), 539–549. <https://doi.org/10.3109/14756366.2014.951348>.

53) Westberg, E. A. C. E. A. C.; Singh, R.; Hedebrant, U.; Koukouves, G.; **Souliotis, V. L.**; Farmer, P. B. P. B.; Segerbäck, D.; **Kyrtopoulos, S.**; Törnqvist, M. A. M. A. Adduct Levels from Benzo[a]Pyrenediol Epoxide: Relative Formation to Histidine in Serum Albumin and to Deoxyguanosine in DNA in Vitro and in Vivo in Mice Measured by LC/MS-MS Methods. *Toxicol. Lett.* (2015), 232 (1), 28–36. <https://doi.org/10.1016/j.toxlet.2014.09.019>.

PEER REVIEWED PUBLICATIONS IN PROCEEDINGS

- 1) Avramopoulos, A.; **Papadopoulos, M. G.** A Theoretical Study of the Non-Linear Optical Properties of a Series of Ni-Dithiolene Derivatives. In *PROCEEDINGS OF THE INTERNATIONAL CONFERENCE OF COMPUTATIONAL METHODS IN SCIENCES AND ENGINEERING 2010 (ICCMSE-2010)*; Simos, TE and Maroulis, G, Ed.; AIP Conference Proceedings; AMER INST PHYSICS: 2 HUNTINGTON QUADRANGLE, STE 1NO1, MELVILLE, NY 11747-4501 USA, (2015); Vol. 1642, pp 102–109. <https://doi.org/10.1063/1.4906636>.
- 2) Valavanis, I.; Goudas, T.; Michailidou, M.; Maglogiannis, I.; Loutrari, H.; **Chatziioannou, A.** A Novel Image Analysis Methodology for the Evaluation of Angiogenesis in Matrigel Assays and Screening of Angiogenesis-Modulating Compounds. In *IFIP Advances in Information and Communication Technology*; (2015); Vol. 458, pp 61–71. https://doi.org/10.1007/978-3-319-23868-5_5.
- 3) Zanette, A.; Zampakidi, I.; **Zoumpantioti, M.**; Souza, R.; **Xenakis, A.**; Filho, L.; Cardozo, L. Epoxidation of oleic acid catalyzed by candida antarctic lipase Immobilized in microemulsion based organogels, In: Blucher Chemistry Engineering Proceedings, v.1, n.2. São Paulo, 2015 p. 383-390

EDITORIALS

- 1) Kleinjans, J.; **Botsivali, M.**; Kogevinas, M.; Merlo, D. F. Fetal Exposure to Dietary Carcinogens and Risk of Childhood Cancer: What the NewGeneris Project Tells Us: Table 1. *BMJ* (2015), 351, h4501. <https://doi.org/10.1136/bmj.h4501>.
- 2) Buerkle, A.; Grune, T.; **Gonos, E. S.**; Bohr, V. A. Special Issue Biomarkers of Human Ageing. *Mech. Ageing Dev.* (2015), 151 (SI), 1. <https://doi.org/10.1016/j.mad.2015.08.008>.

PEER REVIEWED ABSTRACTS IN PROCEEDINGS

- 1) Chatzi, L.; Vafeiadi, M.; Roumeliotaki, T.; Chalkiadaki, G.; Rantakokko, P.; Kiviranta, H.; Fthenou, E.; **Kyrtopoulos, S. A.**; Kogevinas, M. Exposure to Persistent Organic Pollutants in Early Pregnancy and Risk of Gestational Diabetes Mellitus. *Diabetologia* (2015), 58 (1), S161.

- 2) Cheimonidou C., Argyropoulou A., Samara P., Tsakiri E.N., Papassideri I., **Zoumpourlis V.**, Polychronopoulos P., Tsitsilonis O.E., Aligiannis N., Skaltsounis A.L., Trougakos I.P. SELECTIVE KILLING OF TUMOR CELLS BY THE NATURAL COMPOUND ACTEOSIDE. 66th Conference of the HSBMB, Athens, Greece, 2015.
- 3) **Chondrogianni, N.** The Pivotal Role of Proteasome Enhancement in Ageing, Longevity and Proteostasis across Species. *Free Radic. Biol. Med.* (2015), 86 (1), S12. <https://doi.org/10.1016/j.freeradbiomed.2015.07.052>.
- 4) Christodoulou I., A Kritikos, E Taki, **V Zoumpourlis.** Naive and genetically-modified hMSCs exhibit anti-proliferative effects on human cancer cells. FEBS JOURNAL 282, 267-267, 2015
- 5) Emmanouil, T.; Christou, C.; **Chatziioannou, A.**; Falidas, E.; Vardas, C.; Kontoravdis, N.; Baratsis, S. How Could Female Infertility Be Reduced after Open IPAA. *J. CROHNS COLITIS* (2015), 9 (1), S252.
- 6) Galtsidis, S.; Logotheti, S.; Pavlopoulou, A.; Gorgoulis, V.; Vojtesek, B.; **Zoumpourlis, V.** MiR-3158: A TAp73-Induced Target Which Inhibits Epithelial-Mesenchymal Transition through Downregulation of Vimentin. *FEBS J.* (2015), 282 (1, SI), 261.
- 7) Gkotzamanidou, M.; Terpos, E.; Munshi, N. C.; **Souliotis, V. L.**; Dimopoulos, M. A. The State of Chromatin Condensation, the Expression of Genes Involved in DNA Damage Response and the DNA Repair Capacity Affect the Drug Sensitivity of PBMCs of Myeloma Patients Treated with Melphalan. *Blood* (2015), 126 (23).
- 8) Gkotzamanidou, M.; Terpos, E.; Munshi, N. C.; **Souliotis, V. L.**; Dimopoulos, M. A. The Simultaneous Accumulation of the Extremely Cytotoxic Interstrand Cross-Links and Double-Strand Breaks Contributes to the Successful Anti-Myeloma Therapy; The Effect of DNA Repair Inhibitors. *Blood* (2015), 126 (23).
- 9) Logotheti M, **Papadodima O, Chatziioannou A**, Venizelos N, Kollis F. Gene expression Analysis of fibroblasts from patients with Bipolar Disorder. *J Neuropsychopharmacol Mental Health* 2015 1: 103. Doi: 10.4172/2472-095X.1000103
- 10) Maglogiannis, I., Goudas, T., Billiris, A., Karanikas, H., Valavanis, I., **Papadodima, O.**, Kontogianni, G., **Chatziioannou, A.** (2015, September). Redesigning EHRs and Clinical Decision Support Systems for the Precision Medicine Era. In Proceedings of the 16th International Conference on Engineering Applications of Neural Networks (INNS) (p. 14). ACM.
- 11) Lefaki, M.; Chatzinikolaou, G.; Andoniade, C.; **Gonos, E.**; Garinis, G.; **Chondrogianni, N.** Investigation of the Crosstalk between Proteasome Function and Nucleotide Excision Repair Mechanism during Ageing. *Free Radic. Biol. Med.* (2015), 86 (1), S5–S6. <https://doi.org/10.1016/j.freeradbiomed.2015.07.032>.

- 12) Rizos, E.; Sinfakas, N.; Katsantoni, E.; Skourti, E.; Salpeas, V.; Rizos, I.; Tsoporis, J.; Kastania, A.; Xiros, N.; Parker, T.; Papageorgiou, C.; **Zoumpourlis, V.** The Possible Role of Let-7, MiR-98 and MiR-181 as Biomarkers of Low Cancer Risk in Schizophrenic Patients. *Int. J. Mol. Med.* (2015), 36 (1), S110.
- 13) Makropoulou, M.; Karakasi, C.; Aligiannis, N.; Kalpoutzakis, E.; Skaltsounis, A. L.; **Alexis, M.**; Mitakou, S. Greek Iris Species as Sources of Agents Potentially Effective in Bone Metabolism. *Planta Med.* (2015), 81 (16), 1440.
- 14) Vontzalidou, A.; Meligova, A.; Bagouraki, S.; Makropoulou, M.; Boka I, V.; Stathopoulou, K.; Mitsiou, D.; Kalpoutzakis, E.; Aligiannis, N.; **Alexis, M.**; Mitakou, S. Greek Flora as a Source for the Detection of Natural Compounds Potentially Effective in Preventing Post-Menopausal Osteoporosis. *Planta Med.* (2015), 81 (16), 1519.