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**2015**

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## 4.1 Publications

- 1.** Giordano E, Dávalos A, Crespo MC, Tome-Carneiro J, Gómez-Coronado D, Visioli F. Soy Isoflavones in Nutritionally Relevant Amounts Have Varied Nutrigenomic Effects on Adipose Tissue. *Molecules* (2015) 20 (2), 2310-2322. doi:10.3390/molecules20022310

**2.** Casas-Agustench P, Fernandes FS, do Carmo MGT, Visioli F, Herrera E, Dávalos A. Consumption of Distinct Dietary Lipids during Early Pregnancy Differentially Modulates the Expression of microRNAs in Mothers and Offspring. *Plos One* (2015) 10 (2), UNSP e0117858

**3.** Jaime L, Vázquez E, Fornari T, López-Hazas MD, García-Risco MR, Santoyo S, Reglero G. Extraction of functional ingredients from spinach (*Spinacia oleracea L.*) using liquid solvent and supercritical CO<sub>2</sub> extraction. *Journal of the Science of Food and Agriculture* (2015) 95 (4), 722-729. doi: 10.1002/jsfa.6788

**4.** Zanon-Moreno V, Zanon-Moreno L, Ortega-Azorin C, Asensio-Marquez EM, García-Medina JJ, Sanz P, Pinazo-Duran MD, Ordovás JM, Corella, D. Genetic polymorphism related to exfoliative glaucoma is also associated with primary open-angle glaucoma risk. *Clinical and Experimental Ophthalmology* (2015) 43 (1), 26-30. doi: 10.1111/ceo.12367

**5.** Dashti HS, Follis JL, Smith CE, Tanaka T, Cade BE, Gottlieb DJ, Hruby A, Jacques PF, Lamon-Fava S, Richardson K, Saxena R, Scheer FAJL, Kovanen L, Bartz TM, Perala MM, Jonsson A, Frazier-Wood AC, Kalafati IP, Mikkila V, Partonen T, Lemaitre RN, Lahti J, Hernández DG, Toft U, Johnson WC, Kanoni S, Raitakari OT, Perola M, Psaty BM, Ferrucci L, Grarup N, Highland HM, Rallidis L, Kahonen M, Havulinna AS, Siscovick DS, Jorgensen T, Rotter JI, Deloukas P, Viikari JSA, Mozaffarian D, Linneberg A, Seppala I, Hansen T, Salomaa V, Gharib SA, Eriksson JG, Bandinelli S, Pedersen O, Rich SS, Dedoussis G, Lehtimaki T, Ordovás JM. Habitual sleep duration is associated with BMI and macronutrient intake and may be modified by CLOCK genetic variants. *American Journal of Clinical Nutrition* (2015) 101 (1), 135-143. doi: 10.3945/ajcn.114.095026

**6.** Corella D, Ordovás JM. Biomarkers: background, classification and guidelines for applications in nutritional epidemiology. *Nutrición Hospitalaria* (2015) 31 (s03) 177-188. doi: 10.3305/nh.2015.31.sup3.8765

**7.** Gil-Ramírez A, Soler-Rivas C, Rodríguez-Casado A, Ruiz-Rodríguez A, Reglero G, Martín FR. Effect of Selenium-Enriched *Agaricus bisporus* (Higher Basidiomycetes) Extracts, Obtained by Pressurized Water Extraction, on the Expression of Cholesterol Homeostasis Related Genes by Low-Density Array. *International Journal of Medicinal Mushrooms* (2015) 17 (2), 105-16. doi: 10.1615/IntJMedMushrooms.v17.i2.20

**8.** Ramírez de Molina A, Vargas T, Molina S, Sánchez J, Martínez-Romero J, González-Vallinas M, Martín-Hernández RM, Sánchez-Martínez R, Gómez de Cedrón M, Dávalos A, Calani L, Del Rio D, González-Sarrías A, Espín JC, Tomás-Barberán FA, Reglero G. The Ellagic Acid Derivative 4,4'-Di-O-Methylellagic Acid Efficiently Inhibits Colon Cancer Cell Growth through

a Mechanism Involving WNT16. *Journal of Pharmacology and Experimental Therapeutics* (2015) 353 (2), 433-44. doi: 10.1124/jpet.114.221796

**9.** Crespo MC, Tomé-Carneiro J, Burgos-Ramos E, Kohen VL, Espinosa MI, Herranz J, Visioli F. One-week administration of hydroxytyrosol to humans does not activate Phase II enzymes. *Pharmacological Research* (2015) 95-96, 132-7. doi: 10.1016/j.phrs.2015.03.018

**10.** Vargas T, Moreno-Rubio J, Herranz J, Cejas P, Molina S, González-Vallinas M, Mendiola M, Burgos E, Aguayo C, Custodio AB, Machado I, Ramos D, Gironella M, Espinosa-Salinas I, Ramos R, Martín-Hernández R, Risueño A, De Las Rivas J, Reglero G, Yaya R, Fernández-Martos C, Aparicio J, Maurel J, Feliú J, Ramírez de Molina A. ColoLipidGene: signature of lipid metabolism-related genes to predict prognosis in stage-II colon cancer patients. *Oncotarget* (2015) 6 (9), 7348-63. doi: 10.18632/oncotarget.3130

**11.** Sour S, Belarbi M, Sari N, Benammar C H, Baghdad C H, Visioli F. Argan oil reduces, in rats, the high fat diet-induced metabolic effects of obesity. *Nutrition, Metabolism and Cardiovascular Diseases* (2015) 25 (4), 382-7. doi: 10.1016/j.numecd.2015.01.001

**12.** Corbalán-Tutau MD, Gómez-Abellán P, Madrid JA, Canteras M, Ordovás JM, Garaulet M. Toward a chronobiological characterization of obesity and metabolic syndrome in clinical practice. *Clinical Nutrition* (2015) 34 (3), 477-83. doi: 10.1016/j.clnu.2014.05.007

**13.** Dashti HS, Aslibekyan S, Scheer FA, Smith CE, Lamón-Fava S, Jacques P, Lai CQ, Tucker KL, Arnett DK, Ordovás JM. Clock Genes Explain a Large Proportion of Phenotypic Variance in Systolic Blood Pressure and This Control Is Not Modified by Environmental Temperature. *American Journal of Hypertension* (2015) 29 (1), 132-40. doi: 10.1093/ajh/hpv082

**14.** Dashti HS, Follis JL, Smith CE, Tanaka T, Garaulet M, Gottlieb DJ, Hruby A, Jacques PF, Kieft-de Jong JC, Lamón-Fava S, Scheer FA, Bartz TM, Kovanen L, Wojczynski MK, Frazier-Wood AC, Ahluwalia TS, Perälä MM, Jonsson A, Muka T, Kalafati IP, Mikkilä V, Ordovás JM, *Gene-Environment Interactions of Circadian-Related Genes for Cardiometabolic Traits Diabetes Care* (2015) 38 (8), 1456-66. doi: 10.2337/dc14-2709

**15.** de Gonzalo-Calvo D, Dávalos A, Montero A, García-González Á, Tyshkovska I, González Medina A, Soares SM, Martínez-Camblor P, Casas-Agustench P, Rabadán M, Díaz-Martínez ÁE, Úbeda N, Iglesias-Gutiérrez E. Circulating inflammatory miRNA signature in response to different doses of aerobic exercise. *Journal of Applied Physiology* (2015) 119 (2), 124-134. doi: 10.1152/japplphysiol.00077.2015

**16.** Gil-Ramírez A, Caz V, Martín-Hernández R, Marín FR, Largo C, Rodríguez-Casado A, Tabernero M, Ruiz-Rodríguez A, Reglero G, Soler-Rivas C. Modulation of cholesterol-related gene expression by ergosterol and ergosterol-enriched extracts obtained from Agaricus bisporus. *European Journal of Nutrition* (2015) 55 (3), 1041-1057. doi: 10.1007/s00394-015-0918-x





- 17.** Khymenets O, Andrés-Lacueva C, Urpi-Sarda M, Vázquez-Fresno R, Mart MM, Reglero G, Torres M, Llorach R. Metabolic fingerprint after acute and under sustained consumption of a functional beverage based on grape skin extract in healthy human subjects. *Food and Function Journal* (2015) 6 (4), 1288-98. doi: 10.1039/c4fo00684d
- 18.** Nuñez-Sánchez MA, Dávalos A, González-Sarrías A, Casas-Agustench P, Visioli F, Monegro-Saiz T, García-Talavera NV, Gómez-Sánchez MB, Sánchez-Álvarez C, García-Albert AM, Rodríguez-Gil FJ, Ruiz-Marín M, Pastor-Quirante FA, Martínez-Díaz F, Tomás-Barberán FA, García-Conesa MT, Espín JC. MicroRNAs expression in normal and malignant colon tissues as biomarkers of colorectal cancer and in response to pomegranate extracts consumption: Critical issues to discern between modulatory effects and potential artefacts. *Molecular Nutrition Food Research* (2015) 59 (10), 1973–1986. doi: 10.1002/mnfr.201500357
- 19.** Martín Sánchez C, Pérez Martín JM, Martín Sánchez C, Pérez Martín JM, Jin JS, Dávalos A, Zhang W, de la Peña G, Martínez-Botás J, Rodríguez-Acebes S, Suárez Y, Hazen MJ, Gómez-Coronado D, Bustos R, Cheng YC, Lasunción MA. Disruption of the mevalonate pathway induces dNTP depletion and DNA damage. *Biochimica et Biophysica Acta* (2015) 1851 (9), 1240-1253 doi: 10.1016/j.bbapap.2015.06.001
- 20.** Olivera-Castillo L, Dávalos A, Grant G, Valadez-Gonzalez N, Montero J, Barrera-Pérez HA, Chim-Chi Y, Olvera-Novoa MA, Ceja-Moreno V, Acereto-Escoffie P, Rubio-Piña J, Rodríguez-Canul R. Correction: Diets containing sea cucumber (*Isostichopus badionotus*) meals are hypocholesterolemic in young rats. *PLoS One* (2015) 10 (4), e0125451. doi: 10.1371/journal.pone.0125451
- 21.** Ruiz-Hernández A, Kuo CC, Rentero-Garrido P, Tang WY, Redon J, Ordovás JM, Navas-Acien A, Tellez-Plaza M. Environmental chemicals and DNA methylation in adults: a systematic review of the epidemiologic evidence. *Clinical Epigenetics* (2015) 7 (1), 55. doi: 10.1186/s13148-015-0055-7
- 22.** Arranz E, Jaime L, López de las Hazas MC, Reglero G, Santoyo S. Supercritical fluid extraction as an alternative process to obtain essential oils with anti-inflammatory properties from marjoram and sweet basil. *Industrial Crops and Products* (2015) 67, 121–129. doi: 10.1016/j.indcrop.2015.01.012
- 23.** Sánchez-Martínez R, Gómez de Cedrón M, Vargas T, Molina S, García B, Herranz J, Álvarez-Fernández M, Moreno-Rubio J, Reglero G, Pérez-Moreno M, Feliú J, Malumbres M, Ramírez de Molina A. A link between lipid metabolism and epithelial-mesenchymal transition provides a target for combined drug therapy in colon cancer. *Oncotarget* (2015) 6 (36), 38719-36. doi: 10.18632/oncotarget.5340
- 24.** González-Vallinas M, Reglero G, Ramírez de Molina A. Rosemary (*Rosmarinus officinalis* L.) extract as a potential complementary agent in anticancer therapy. *Nutrition and Cancer* (2015) 67 (8), 1221-9. doi: 10.1080/01635581.2015.1082110

- 25.** Castro-Gómez P, García-Serrano A, Visioli F, Fontecha J. Relevance of dietary glycerophospholipids and sphingolipids to human health. *Prostaglandins, Leukotrienes and Essential Fatty Acids* (2015) 10, 41-51. doi:10.1016/j.plefa.2015.07.004
- 26.** Clementi E, Visioli F. Changes to Pharmacological Research. *Pharmacological Research* (2015) 95-96, 1-1. doi: 10.1016/j.phrs.2015.02.009
- 27.** Lamaziere A, Richard D, Bausero P, Barbe U, Kefi K, Wolf C, Visioli F. Comparison of docosahexaenoic acid uptake in murine cardiomyocyte culture and tissue: Significance to physiologically relevant studies. *Prostaglandins Leukotrienes and Essential Fatty Acids* (2015) 94, 49-54. doi: 10.1016/j.plefa.2014.11.004
- 28.** Bermejo DV, Ibanez E, Reglero G, Turner C, Fornari T, Rodríguez-Meizoso I. High catechins/low caffeine powder from green tea leaves by pressurized liquid extraction and supercritical antisolvent precipitation. *Separation and Purification Technology* (2015) 148, 49-56. doi: 10.1016/j.seppur.2015.04.037
- 29.** Caz V, Gil-Ramírez A, Largo C, Tabernero M, Santarnaria M, Martín-Hernández R, Marín FR, Reglero G, Soler-Rivas C. Modulation of Cholesterol-Related Gene Expression by Dietary Fiber Fractions from Edible Mushrooms. *Journal of Agricultural and Food Chemistry* (2015) 63 (33), 7371-7380. doi: 10.1021/acs.jafc.5b02942
- 30.** Sánchez CM, Martín JMP, Jin JS, Dávalos A, Zhang W, de la Peña G, Martínez-Botas J, Rodríguez-Acebes S, Suárez Y, Hazen MJ, Gómez-Coronado D, Bustos R, Cheng YC, Lasunción, MA. *Biochimica et Biophysica Acta-Molecular and Cell Biology of Lipids* (2015) 1851 (9), 1240-1253. doi: 10.1016/j.bbalip.2015.06.001
- 31.** Casas-Agustench P, Iglesias-Gutiérrez E, Dávalos A. Mother's nutritional miRNA legacy: Nutrition during pregnancy and its possible implications to develop cardiometabolic disease in later life. *Pharmacological Research* (2015) 29 (100), 322-334. doi: 10.1016/j.phrs.2015.08.017
- 32.** Daimiel-Ruiz L, Klett-Mingo M, Konstantinidou V, Mico V, Aranda J Francisco, García B, Martínez-Botas Jr, Dávalos A, Fernández-Hernando C, Ordovás JM. Dietary lipids modulate the expression of miR-107, a miRNA that regulates the circadian system. *Molecular Nutrition & Food Research* (2015) 59 (9), 1865-78. doi:10.1002/mnfr.201570094
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**34.** Hidalgo B, Aslibekyan S, Wiener HW, Irvin MR, Straka RJ, Borecki IB, Tiwari HK, Tsai MY, Hopkins PN, Ordovás JM, Arnett DK. A family-specific linkage analysis of blood lipid response to fenofibrate in the Genetics of Lipid Lowering Drug and Diet Network. *Pharmacogenet Genomics* (2015) 25 (10), 511-4. doi: 10.1097/FPC.0000000000000162

**35.** Aslibekyan S, Demerath EW, Mendelson M, Zhi D, Guan W, Liang L, Sha J, Pankow JS, Liu C, Irvin MR, Fornage M, Hidalgo B, Lin LA, Thibeault KS, Bressler J, Tsai MY, Grove ML, Hopkins PN, Boerwinkle E, Borecki IB, Ordovás JM, Levy D, Tiwari HK, Absher DM, Arnett DK. Epigenome-wide study identifies novel methylation loci associated with body mass index and waist circumference. *Obesity (Silver Spring)* (2015) 23 (7), 1493-501. doi: 10.1002/oby.21111

**36.** Villanueva Bermejo D, Angelov I, Vicente G, Stateva RP, Rodríguez García-Risco M, Reglero G, Ibanez E, Fornari T. Extraction of thymol from different varieties of thyme plants using green solvents. *Journal of the Science of Food and Agriculture* (2015) 95 (14), 2901-7. doi:10.1002/jsfa.7031

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**38.** Richardson K, Schnitzler GR, Lai CQ, Ordovás JM. Functional Genomics Analysis of Big Data Identifies Novel Peroxisome Proliferator-Activated Receptor Target Single Nucleotide Polymorphisms Showing Association with Cardiometabolic Outcomes. *Circulation-Cardiovascular Genetics* (2015) 8 (6), 842-851. doi: 10.1161/CIRCGENETICS.115.001174

- 39.** Laclaustra M, Hurtado-Roca Y, Sendin M, León M, Ledesma M, Andrés E, Fernández-Ortiz A, Guallar E, Ordovás JM, Casasnovas JA. Lower-normal TSH is associated with better metabolic risk factors: A cross-sectional study on Spanish men. *Nutrition Metabolism and Cardiovascular Diseases* (2015) 25 (12), 1095-1103. doi: 10.1016/j.numecd.2015.09.007
- 40.** Dashti HS, Scheer FAJL, Jacques PF, Lamont-Fava S, Ordovás JM. Short Sleep Duration and Dietary Intake: Epidemiologic Evidence, Mechanisms, and Health Implications. *Advances in Nutrition* (2015) 6 (6), 648-659. doi: 10.3945/an.115.008623
- 41.** Fretts AM, Follis JL, Nettleton JA, Lemaitre RN, Ngwa JS, Wojczynski MK, Kalafati IP, Varga TV, Frazier-Wood AC, Houston DK, Lahti J, Ericson U, van den Hooven EH, Mikkila V, Kieft-de Jong JC, Mozaffarian D, Rice K, Renstrom F, North KE, McKeown NM, Feitosa MF, Kanoni S, Smith CE, García ME, Tiainen AM, Sonestedt E, Manichaikul A, Van Rooij FJA, Dimitriou M, Raitakari O, Pankow JS, Djousse L, Province MA, Hu FB, Lai CQ, Keller MF, Peralta MM, Rotter JI, Hofman A, Graff M, Kahonen M, Mukamal K, Johansson I, Ordovás JM, Liu YM, Mannisto S, Uitterlinden AG, Deloukas P, Seppala I, Psaty BM, Cupples LA, Borecki IB, Franks PW, Arnett DK, Nalls MA, Eriksson JG, Orho-Melander M, Franco OH, Lehtimaki T, Dedousis GV, Meigs JB, Siscovick DS. Consumption of meat is associated with higher fasting glucose and insulin concentrations regardless of glucose and insulin genetic risk scores: a meta-analysis of 50,345 Caucasians. *American Journal of Clinical Nutrition* (2015) 102 (5), 1266-1278. doi: 10.3945/ajcn.114.101238
- 42.** Philip D, Buch A, Moorthy D, Scott TM, Parnell LD, Lai CQ, Ordovás JM, Selhub J, Rosenberg IH, Tucker KL, Troen AM. Dihydrofolate reductase 19-bp deletion polymorphism modifies the association of folate status with memory in a cross-sectional multiethnic study of adults. *American Journal of Clinical Nutrition* (2015) 102 (5), 1279-1288. doi: 10.3945/ajcn.115.111054
- 43.** Wojczynski MK, Parnell LD, Pollin TI, Lai CQ, Feitosa MF, O'Connell JR, Frazier-Wood AC, Gibson Q, Aslibekyan S, Ryan KA, Province MA, Tiwari HK, Ordovás JM, Shuldiner AR, Arnett DK, Borecki IB. Genome-wide association study of triglyceride response to a high-fat meal among participants of the NHLBI Genetics of Lipid Lowering Drugs and Diet



Network (GOLDN). *Metabolism-Clinical and Experimental* (2015) 64 (10), 1359-1371. doi: 10.1016/j.metabol.2015.07.001

**44.** Poli A, Visioli F. Recent evidence on omega 6 fatty acids 11 and cardiovascular risk. *European Journal of Lipid Science and Technology* (2015) 117 (11), 1847-1852. doi: 10.1002/ejlt.201500049

**45.** Giordano E, Dangles O, Rakotomanomana N, Baracchini S, Visioli F. 3-O-Hydroxytyrosol glucuronide and 4-O-hydroxytyrosol glucuronide reduce endoplasmic reticulum stress in vitro. *Food & Function* (2015) 6 (10), 3275-3281. doi: 10.1039/c5fo00562k

**46.** Loria-Kohen V, Espinosa-Salinas I, Marcos-Pasero H, Lourenço-Nogueira T, Herranz J, Molina S, Reglero Gu, Ramírez de Molina A. Polymorphism in the CLOCK gene may influence the effect of fat intake reduction on weight loss. *Nutrition* (2015) 32 (4), 453–460. doi: 10.1016/j.nut.2015.10.013

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