



**instituto madrileño
de estudios avanzados**

informe
bienal
2011-12

**instituto
IMdea
alimentación**

informe bienal
2011-12

- 15.** Amelia Martí, José Ordovas. Epigenetics lights up the obesity field. *Obes Facts* 2011;4:187- 190.
- 16.** José M. Ordovás, Ruairí Robertson and Ellen Ní Cléirigh. Gene-gene and gene-environment defining lipid-related traits. *Current Opinion in Lipidology*. 2011. 22(2):129-36.
- 17.** Dávalos A, Goedeke L, Smibert P, Ramírez CM, Warrier NP, Andreo U, Cirera-Salinas D, Rayner K, Suresh U, Pastor-Pareja JC, Esplugues E, Fisher EA, Penalva LO, Moore KJ, Suárez Y, Lai EC, Fernández-Hernando C. miR-33a/b contribute to the regulation of fatty acid metabolism and insulin signaling. *Proc Natl Acad Sci U S A*. 2011 May 31;108(22):9232-7. Epub 2011 May 16.
- 18.** Marta González-Castejón, Francisco Marín, Cristina Soler-Rivas, Guillermo Reglero, Francisco Vissioli, Arantxa Rodríguez-Casado. Functional non-synonymous polymorphisms prediction methods. *Current medicinal Chemistry* 2011 18 (33): 5095- 5103.
- 19.** Marta González-Castejón, Arantxa Rodríguez-Casado. Dietary phytochemicals and their potential effects on obesity: A review. *Pharmacological Research*. 2011. 64(5):438-455.
- 20.** I Espinosa-Salinas, A Rodríguez-Casado, S Molina, A Rodríguez-González, JM Ordovas, A Ramírez de Molina. Beneficial effects of bioactive phospholipids: Genomic bases. *Nutrition Reviews*. *Current Nutrition & Food Science*. 2011. 7(3):145-154.
- 21.** Vissioli F, Lastra CA, Andres-Lacueva C, Aviram M, CValhau C, Cassano A, D'Archivio M, Faria A, Favé G, Fogliano V, Llorach R, Vitaglione P, Zoratti M, Edeas M. Polyphenols and human health: a prospectus. *Crit Rev Food Sci Nutr*. 2011 Jul; 51(6):524-46.
- 22.** Di Lorenzo A, Manes TD, Dávalos A, Wright PL, Sessa WC. Endothelial reticulon-4B (Nogo-B) regulates ICAM-1-mediated leukocyte transmigration and acute inflammation. *Blood*. 2011 Feb 17;117(7):2284-95. Epub 2010 Dec 23.
- 23.** Vissioli F. Polyphenol studies: time for a physiological tea party? *Br J Nutr*. 2011. 22:1-2.
- 24.** Belarbi M, Bendimerad S, Sour S Soualem Z, Baghdad C, Hmimed S, Chemat F, Vissioli F. Oleaster oil positively modulates plasma lipids in humans. *J Agric Food Chem*. 2011. 59(16):8667-9.
- 25.** Vissioli F, Bernardini E. Extra virgin olive oil's polyphenols: biological activities. *Curr Pharm Des*. 2011. 17(8): 786-804.



26. Pareyson D, Reilly MM, Schenone A, Fabrizi GM, Cavallaro T, Santoro L, Vita G, Quattrone A, Padua L, Gemignani F, Visioli F, Laurà M, Radice D, Calabrese D, Hughes RA, Solari A;. Ascorbic acid in Charcot-Marie-Tooth disease type 1A (CMT-TRIAAL and CMT-TRAUK): a double-blind randomised trial. CMT-TRIAAL; CMT-TRAUK groups. Lancet Neurol 2011;10(4):320-8.

27. Pareyson, D., Reilly, M. M., Schenone, A., Fabrizi, GM., Cavallaro, T., Santoro, L., Vita, G., Quattrone, A., Padua, L., Gemignani, F., Visioli, F., Laura, M., Calabrese, D., Hughes, RAC., Radice, D., Marchesi, C., Solari, S. HOW TO DETECT DISEASE PROGRESSION AND TREATMENT EFFECT IN CHARCOT-MARIE-TOOTH DISEASE? RESPONSIVENESS OF CLINICAL OUTCOME MEASURES. Journal of the Peripheral Nervous System (2011) 16: S103-S104.

28. Pareyson, D., Reilly, M. M., Schenone, A., Fabrizi, GM., Cavallaro, T., Santoro, L., Vita, G., Quattrone, A., Padua, L., Gemignani, F., Visioli, F., Laura, M., Calabrese, D., Hughes, RAC., Radice, D., Marchesi, C., Solari, S. SENSITIVITY TO CHANGE OF CLINICAL OUTCOME MEASURES IN CHARCOT-MARIE-TOOTH DISEASE. Journal of the Peripheral Nervous System (2011) 16: S29-S30.

2012

1. Corella D, Ortega-Azorín C, Sorlí JV, Covas MI, Carrasco P, Salas-Salvadó J, Martínez-González MÁ, Arós F, Lapetra J, Serra-Majem L, Lamuela-Raventos R, Gómez-Gracia E, Fiol M, Pintó X, Ros E, Martí A, Coltell O, Ordovás JM, Estruch R. Statistical and Biological Gene-Lifestyle Interactions of MC4R and FTO with Diet and Physical Activity on Obesity: New Effects on Alcohol Consumption. PLoS One. 2012;7(12):e52344. doi: 10.1371/journal.pone.0052344. Epub 2012 Dec 21.

2. Bandín C, Martínez-Nicolas A, Ordovás JM, Ros Lucas JA, Castell P, Silvente T, Madrid JA, Garaulet M. Differences in circadian rhythmicity in CLOCK 3111T/C genetic variants in moderate obese women as assessed by thermometry, actimetry and body position. Int J Obes (Lond). 2012 Nov 27. doi: 10.1038/ijo.2012.180.

3. Aslibekyan S, An P, Frazier-Wood AC, Kabagambe EK, Irvin MR, Straka RJ, Tiwari HK, Tsai MY, Hopkins PN, Borecki IB, Ordovás JM, Arnett DK. Preliminary evidence of genetic determinants of adiponectin response to fenofibrate in the Genetics of Lipid Lowering Drugs and Diet Network. Nutr Metab Cardiovasc Dis. 2012 Nov 10. doi:pii: S0939-4753(12)00189-5. 10.1016/j.numecd.2012.07.010.

4. Hernandez-Morante JJ, Gomez-Santos C, Margareto J, Formiguera X, Martínez CM, González R, Martínez-Augustín O, Madrid JA, Ordovás JM, Garaulet M. Influence of menopause on adipose tissue clock gene genotype and its relationship with metabolic syndrome in morbidly obese women. Age (Dordr). 2012 Dec;34(6):1369-80. doi: 10.1007/s11357-011-9309-2.

5. Cowley AW Jr, Nadeau JH, Baccarelli A, Berecek K, Fornage M, Gibbons GH, Harrison DG, Liang M, Nathanielsz PW, O'Connor DT, Ordovás JM, Peng W, Soares MB, Szyf M, Tolunay HE, Wood KC, Zhao K, Galis ZS. Report of the National Heart,Lung, and Blood Institute Working Group on epigenetics and hypertension. Hypertension. 2012 May;59(5):899-905. Epub 2012 Mar 19.



- 6.** Milagro FI, Gómez-Abellán P, Campión J, Martínez JA, Ordovás JM, Garaulet M. CLOCK, PER2 and BMAL1 DNA Methylation: Association with Obesity and Metabolic Syndrome Characteristics and Monounsaturated Fat Intake. *Chronobiol Int.* 2012 Nov;29(9):1180-94. doi: 0.3109/07420528.2012.719967.
- 7.** Frazier-Wood AC, Aslibekyan S, Borecki IB, Hopkins PN, Lai CQ, Ordovás JM, Straka RJ, Tiwari HK, Arnett DK. Genome-wide association study indicates variants associated with insulin signaling and inflammation mediate lipoprotein responses to fenofibrate. *Pharmacogenet Genomics.* 2012 Oct;22(10):750-757.
- 8.** Casasnovas JA, Alcaide V, Civeira F, Guallar E, Ibañez B, Borreguero JJ, Laclaustra M, León M, Peñalvo JL, Ordovás JM, Pocovi M, Sanz G, Fuster V. Aragon workers' health study - design and cohort description *BMC Cardiovasc Disord.* 2012 Jun 19;12:45.
- 9.** Corella D, Ordovás JM. Interactions between dietary n-3 fatty acids and genetic variants and risk of disease. *Br J Nutr.* 2012 Jun;107 Suppl 2:S271-83. Review.
- 10.** Frazier-Wood AC, Ordovás JM, Straka RJ, Hixson JE, Borecki IB, Tiwari HK, Arnett DK. The PPAR alpha gene is associated with triglyceride, low-density cholesterol and inflammation marker response to fenofibrate intervention: the GOLDN study. *Pharmacogenomics J.* 2012 May 1. doi: 10.1038/tpj.2012.9.
- 11.** Yiannakouris N, Katsoulis M, Dilis V, Parnell LD, Trichopoulos D, Ordovás JM, Trichopoulou A. Genetic predisposition to coronary heart disease and stroke using an additive genetic risk score: a population-based study in Greece. *Atherosclerosis.* 2012 May;222(1):175-9.
- 12.** Ordovás-Montañes JM, Ordovás JM. Cholesterol, Inflammasomes, and Atherogenesis. *Curr Cardiovasc Risk Rep.* 2012 Feb 1;6(1):45-52.
- 13.** Frazier-Wood AC, Kabagambe EK, Borecki IB, Tiwari HK, Ordovás JM, Arnett DK. Preliminary evidence for an association between LRP-1 genotype and body mass index in humans. *PLoS One.* 2012;7(2):e30732.
- 14.** Aslibekyan S, Kabagambe EK, Irvin MR, Straka RJ, Borecki IB, Tiwari HK, Tsai MY, Hopkins PN, Shen J, Lai CQ, Ordovás JM, Arnett DK. A genome-wide association study of inflammatory biomarker changes in response to fenofibrate treatment in the Genetics of Lipid Lowering Drug and Diet Network. *Pharmacogenet Genomics.* 2012 Mar;22(3):191-7. doi: 10.1097/PG.0b013e32834fdd41.
- 15.** Aslibekyan S, Goodarzi MO, Frazier-Wood AC, Yan X, Irvin MR, Kim E, Tiwari HK, Guo X, Straka RJ, Taylor KD, Tsai MY, Hopkins PN, Korenman SG, Borecki IB, Chen YD, Ordovás JM, Rotter JI, Arnett DK. Variants identified in a GWAS meta-analysis for blood lipids are associated with the lipid response to fenofibrate. *PLoS One.* 2012;7(10):e48663. doi: 10.1371/journal.pone.0048663.
- 16.** Gómez-Abellán P, Madrid JA, Ordovás JM, Garaulet M. Chronobiological aspects of obesity and metabolic syndrome. *Endocrinol Nutr.* 2012 Jan;59(1):50-61.
- 17.** Gómez-Abellán P, Madrid JA, Luján JA, Frutos MD, González R, Martínez-Augustín O, de Medina FS, Ordovás JM, Garaulet M. Sexual dimorphism in clock genes expression in human adipose tissue. *Obes Surg.* 2012 Jan;22(1):105-12.
- 18.** Gómez-Abellán P, Díez-Noguera A, Madrid JA, Luján JA, Ordovás JM, Garaulet M. Glucocorticoids affect 24 h clock genes expression in human adipose tissue explant cultures. *PLoS One.* 2012;7(12):e50435. doi: 10.1371/journal.pone.0050435.
- 19.** Basulto Marset J, Casas-Agustench P, Babio Sánchez N, Salas-Salvadó J. Knowledge,

- interest, predisposition and evaluation of functional foods in Spanish dietitians-nutritionists and experts in human nutrition and dietetics. *Nutr Hosp.* 2012;27(2):632-44. doi: 10.1590/S0212-16112012000200042.
- 20.** Casas-Agustench P, Serra M, Pérez-Heras A, Cofán M, Pintó X, Trautwein EA, Ros. Effects of plant sterol esters in skimmed milk and vegetable-fat-enriched milk on serum lipids and non-cholesterol sterols in hypercholesterolaemic subjects: a randomised, placebo-controlled, crossover study. *Br J Nutr.* 2012;107(12):1766-75. doi: 10.1017/S0007114511005162.
- 21.** Ramírez de Molina A, de la Cueva A, Machado-Pinilla R, Rodríguez-Fanjul V, Del Pulgar TG, Cebrán A, Perona R, Lacal JC. Acid ceramidase as a chemotherapeutic target to overcome resistance to the antitumoral effect of choline kinase inhibition. *Curr Cancer Drug Targets.* 2012 Jul;12(6):617-24.
- 22.** Sour S., Belarbi M., Khalidi D., Benmansour N., Sari N., Nani A., Chemat F., and Visioli F. Argan oil improves surrogate markers of cardiovascular disease in humans. *British Journal of Nutrition.* 2012 Jun;107(12):1800-5.
- 23.** Visioli F, Colombo C., and Galli C. Differential partitioning of antioxidants, including hydroxytyrosol, in human plasma and LDL: implications for their antioxidant activity in vivo. *Food Chemistry.* 2012, 132 (1), pp. 499-501.
- 24.** Visioli F, Giordano E, Nicod NM, Dávalos A. Molecular targets of omega 3 and conjugated linoleic Fatty acids - "micromanaging" cellular response. *Front Physiol. "Frontiers in Fatty Acid and Lipid Physiology".* 2012;3:42. doi: 10.3389/fphys.2012.00042.
- 25.** Fornari T, Vicente G, Vázquez E, García-Risco MR, Reglero G. Isolation of essential oil from different plants and herbs by supercritical fluid extraction. *Journal of Chromatography A.* 2012 Aug 10;1250:34-48. Epub 2012 Apr 26.
- 26.** Ocaña A, Reglero G. Effects of Thyme Extract Oils (from *Thymus vulgaris*, *Thymus zygis*, and *Thymus hyemalis*) on Cytokine Production and Gene Expression of oxLDL-Stimulated THP-1-Macrophages. *J Obes.* 2012;2012:104706.
- 27.** Santoyo, S. Jaime, L. Plaza, M Herrero, M. Rodriguez-Meizoso, I . Ibanez, E. Reglero, G. Antiviral compounds obtained from microalgae commonly used as carotenoid sources. *Journal of Applied Phycology.* 24(4) 731-741 (2012).
- 28.** Santoyo S, Ramírez-Anguiano, AC, Aldars-García, L, Reglero G, Soler-Rivas, C. Antiviral activities of *Boletus edulis*, *Pleurotus ostreatus* and *Lentinus edodes* extracts and polysaccharide fractions against Herpes simplex virus type 1. *Journal of Food and Nutrition Research* 51, 225-235 (2012).
- 29.** Torrelo, Guzman; Torres, Carlos F.; Reglero, Guillermo. Enzymatic strategies for solvent-free production of short and medium chain phytosteryl esters. *European Journal of Lipid Science and Technology.* 114(6)670-676 (2012).
- 30.** Palanisamy, M. Gil-Ramirez, A. Ruiz-Rodriguez, A. Marin, FR. Reglero, G. Soler-Rivas, C. Testing edible mushrooms to inhibit the pancreatic lipase activity by an in vitro digestion model. *International Journal of Food Science and Technology.* 47(5)1004-1010 (2012).
- 31.** Fornari, T. Ruiz-Rodriguez, A. Vicente, G. Vazquez, E. Garcia-Risco, MR. Reglero, G.Kinetic study of the supercritical CO₂ extraction of different plants from Lamiaceae family. *Journal of Supercritical Fluids.* 64:1-8 (2012).
- 32.** Plaza, M. Santoyo, S. Jaime, L. Avalo, B. Cifuentes, A. Reglero, G. Reina, GGB. Senorans, FJ. Ibanez, E. Comprehensive characterization of the functional activities of pressurized liquid and ultrasound-assisted extracts from *Chlorella vulgaris*. *LWT-Food Science and Technology.* 46:(1)245-253 (2012).

- 33.** Fernandez, O.Tenllado, D., Martin, D.Blanco, RM.; Senorans, FJ. Reglero, G. Torres, CF. Immobilized lipases from *Candida antarctica* for producing tyrosyl oleate in solvent-free medium. *Biocatalysis and Biotransformation*. 30:(2) 245-254 (2012).
- 34.** Martin, D. Terron, A. Fornari, T. Reglero, G., Torres, CF. Oxidative stabilization of ultra-high omega-3 concentrates as ethyl esters or triacylglycerol. *Food Research International*. 45(1)336-341 (2012).
- 35.** Ruiz-Rodriguez, A. Fornari, T. Jaime, L. Vazquez, E. Amador, B. Nieto, JA.Yuste, M. Mercader, M. Reglero, G. Supercritical CO₂ extraction applied toward the production of a functional beverage from wine. *Journal of Supercritical Fluids*. 61: 92-100 (2012).
- 36.** Vicente, G. Garcia-Risco, MR. Fornari, T. Reglero, G. Supercritical Fractionation of Rosemary Extracts to Improve the Antioxidant Activity. *Chemical Engineering & Technology*. 35(1)176-182 (2012).
- 37.** Vicente G, Martín D, García-Risco MR, Fornari T, Reglero G. Supercritical carbón dioxide extraction of antioxidants from Rosemary (*Rosmarinus officinalis*) leaves for use in edible vegetable oils. *J Oleo Sci* 61, 689-697 (2012).
- 38.** Morán-Valero MI, Martín D, Torrelo G, Reglero G, Torres CF. Phytosterols esterified with conjugated linoleic acid. In vitro intestinal digestion and interaction on cholesterol bioaccessibility. *J agric Food Chem* 60, 11323-11330 (2012).
- 39.** Marin EP, Derakhshan B, Lam TT, Davalos A, Sessa WC. Endothelial cell palmitoylproteomic identifies novel lipid-modified targets and potential substrates for protein acyl transferases. *Circ Res*. 2012;110:1336-44.
- 40.** Imai A, Zeitlin BD, Visioli F, Dong Z, Zhang Z, Krishnamurthy S, Light E, Worden F, Wang S, Nör JE. Metronomic dosing of BH3 mimetic small molecule yields robust antiangiogenic and antitumor effects. *Cancer Res*. 2012 Feb 1;72(3):716-25.
- 41.** Visioli F., and Bernardini E. Extra-Virgin Olive Oil-Healthful Properties of its Phenolic Constituents. *Recent Advances in Polyphenol Research*, Volumen 3 (Eds: Cheynier, V., Sarni-Machado, and S. Quideau, S.), Wiley-Blackwell, 2012, pp. 223-248.
- 42.** Viviana Loria-Kohen, Ceila Fernandez-Fernandez, Laura M Bermejo, Esther Morencos, Blanca Romero- Moraleda, Carmen Gómez-Candela. Effect of different exercise modalities plus a hypocaloric diet on inflammation markers in overweight patients: a randomized trial *Clin Nutr*. 2012 Nov 6. doi:pii: S0261-5614(12)00230-0. 10.1016/j.clnu.2012.10.015.
- 43.** Viviana Loria-Kohen; Carmen Gómez-Candela; Ceila Fernández-Fernández; Almudena Pérez-Torres; Juan García-Puig; Laura M Bermejo. Evaluation of the usefulness of a low-calorie diet with or without bread in the treatment of overweight/obesity. *Clin Nutr*. 2012 Aug; 31(4):455-61. doi: 10.1016/j.clnu.2011.12.002.
- 44.** Diego Rodríguez-Durán, Samara Palma, Viviana Loria-Kohen, Marta Villarino, Laura M Bermejo, Carmen Gómez-Candela. Percepción de la importancia de la alimentación en un grupo de pacientes con cáncer hematológico. *Nutr Hosp*. 2012 Mar-Apr;27(2):663-7

6.2. Otras publicaciones

1. Pareyson, D; Reilly, MM; Schenone, A; Fabrizi, GM; Cavallaro, T; Santoro, L; Vita, G; Quattrone, A; Padua, L; Gemignani, F; Visioli, F; Laura, M; Calabrese, D; Hughes, RAC; Picosquito, G; Radice, D; Solari, A. Is overwork weakness relevant in charcot-marie-tooth disease?. *Journal of the peripheral nervous system*, Volume: 17 Supplement: 1 Pages: S43-S43
2. Daimiel L, Vargas T, Ramírez de Molina A. Nutritional genomics for the characterization of the effect of bioactive molecules in lipid metabolism and related pathways. *Electrophoresis*. 2012; 33(15):2266-89.
3. Casado V, Martín D, Torres C, Reglero G. Geor-gina Sandoval Phospholipases in Food Industry: A review. In: Lipases and Phospholipases. Ed. Springer Humana Press. Serie Methods in Molecular Biology. ISBN 978-1-61779-599-2. 2012
4. Visioli F. Can experimental pharmacology be always applied to human nutrition?. *International Journal of Food Sciences and Nutrition* (2012) 63(S1) 10-13.
5. Poli A., Marangoni F., and Visioli F. Alcohol consumption and breast cancer risk. *JAMA* (2012) 307:666.
6. Chiva-Blanc G. and Visioli F. Polyphenols and health: moving beyond antioxidants. *Journal of Berry Research* (2012) 2:63-71.
7. Visioli F. Olive oil phenolics: where do we stand? where should we go?. *Journal of the Science of Food and Agriculture* (2012) 92 (10) 2017-2019.
8. Rodriguez-Casado A. In-silico investigation of functional nsSNPs - approach to rational drug design. *Research and Reports in Medicinal Chemistry* 2012 (Dovepress) 2012; 2: 31-42.
9. M. González-Castejón, A. Rodriguez-Casado Regulation of inflammation by dietary phytochemicals: Current perspectives. *Phytochemicals: Occurrence in Nature, Health Effects and Antioxidant Properties*. Editor: Kuang Haixue, pp. 2012 Nova Science Publishers, Inc.
10. González-Castejón M, Visioli F, Rodriguez-Casado A. Diverse biological activities of dandelion. *Nutrition Reviews*. 2012;70(9):534-547

otras publicaciones

