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2013-14

6.1. Publications

Listed below are the scientific contributions published in international media by IMDEA Food Institute researchers from 2013 to 2014:

2013

1. A.C. Frazier-Wood, E.K. Kabagambe, M.K. Wojczynski, I.B. Borecki, H.K. Tiwari, C.E. Smith, **J.M. Ordovás**, D.K. Arnett. The association between LRP-1 variants and chylomicron uptake after a high fat meal. *Nutr Metab Cardiovasc Dis*. 2013 Nov;23(11):1154-8. doi: 10.1016/j.numecd.2012.12.007.
2. Kris Richardson, Jennifer A. Nettleton, Noemi Rotllan, Toshiko Tanaka, Caren E. Smith, Chao-Qiang Lai, Laurence D. Parnell, Yu-Chi Lee, Jari Lahti, Rozenn N. Lemaitre, Ani Manichaikul, Margaux Keller, Vera Mikkilä, Julius Ngwa, Frank J.A. van Rooij, Christie M. Ballentyne, Ingrid B. Borecki, L. Adrienne Cupples, Melissa Garcia, Albert Hofman, **Ordovás JM**. Gain-of-Function Lipoprotein Lipase Variant rs13702 Modulates Lipid Traits through Disruption of a MicroRNA-410 Seed. *The American Journal of Human Genetics*, Volume 92, Issue 1, 10 January 2013, Pages 5-14. <http://dx.doi.org/10.1016/j.ajhg.2012.10.020>
3. M Garaulet, P Gómez-Abellán, J J Alburquerque-Béjar, Y-C Lee, **J M Ordovás** and F A J L Scheer. Timing of food intake predicts weight loss effectiveness. *International Journal of Obesity*. 2013. 37, 604-611. doi: 10.1038/ijo.2012.229
4. Zanon-Moreno V, Asensio-Marquez EM, Ciancotti-Oliver L, Garcia-Medina JJ, Sanz P, Ortega-Azarin C, Pinazo-Duran MD, **Ordovás JM**, Corella D. Effects of polymorphisms in vitamin E-, vitamin C-, and glutathione peroxidase-related genes on serum biomarkers and associations with glaucoma. *Mol Vis*. 2013;19:231-42.
5. Smith CE, Ngwa J, Tanaka T, Qi Q, Wojczynski MK, Lemaitre RN, Anderson JS, Manichaikul A, Mikkilä V, van Rooij FJ, Ye Z, Bandinelli S, Frazier-Wood AC, Houston DK, Hu F, Langenberg C, McKeown NM, Mozaffarian D, North KE, Viikari J, Zillikens MC, Djoussé L, Hofman A, Kähönen M, Kabagambe EK, Loos RJ, Saylor GB, Frouhi NG, Liu Y, Mukamal KJ, Chen YD, Tsai MY, Uitterlinden AG, Raitakari O, van Duijn CM, Arnett DK, Borecki IB, Cupples LA, Ferrucci L, Kritchevsky SB, Lehtimäki T, Qi L, Rotter JI, Siscovick DS, Wareham NJ, Witteman JC, **Ordovás JM**, Nettleton JA. Lipoprotein receptor-related protein 1 variants and dietary fatty acids: meta-analysis of European origin and African American studies. *Int J Obes (Lond)*. 2013 Sep;37(9):1211-20. doi: 10.1038/ijo.2012.215.
6. Feng X, Tucker KL, Parnell LD, Shen J, Lee YC, **Ordovás JM**, Ling WH, Lai CQ. Insulin receptor substrate 1 (IRS1) variants confer risk of diabetes in the Boston Puerto Rican Health Study. *Asia Pac J Clin Nutr*. 2013;22(1):150-9. doi: 10.6133/apjcn.2013.22.1.09
7. Smith CE, Tucker KL, Arnett DK, Noel SE, Corella D, Borecki IB, Feitosa MF, Aslibekyan S, Parnell LD, Lai CQ, Lee YC, **Ordovás JM**. Apolipoprotein A2 polymorphism interacts with intakes of dairy foods to influence body weight in 2 U.S. populations. *J Nutr*. 2013 Dec;143(12):1865-71. doi: 10.3945/jn.113.179051. Epub 2013 Oct 9.
8. Zheng JS, Arnett DK, Parnell LD, Lee YC, Ma Y, Smith CE, Richardson K, Li D, Borecki IB, **Ordovás JM**, Tucker KL, Lai CQ. Genetic variants at PSMD3 interact with dietary fat and carbohydrate to modulate insulin resistance. *J Nutr*. 2013 Mar;143(3):354-61. doi: 10.3945/jn.112.168401.
9. Van Rompay MI, McKeown NM, Castaneda-Sceppa C, **Ordovás JM**, Tucker KL. Carbohydrate nutrition differs by diabetes status and is associated with dyslipidemia in Boston Puerto Rican adults without diabetes. *J Nutr*. 2013 Feb;143(2):182-8. doi: 10.3945/jn.112.168914.





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11. Frazier-Wood AC, Manichaikul A, Aslibekyan S, Borecki IB, Goff DC, Hopkins PN, Lai CQ, **Ordovás JM**, Post WS, Rich SS, Sale MM, Siscovick D, Straka RJ, Tiwari HK, Tsai MY, Rotter JI, Arnett DK. Genetic variants associated with VLDL, LDL and HDL particle size differ with race/ethnicity. *Hum Genet*. 2013 Apr;132(4):405-13. doi: 10.1007/s00439-012-1256-1.
12. Kraja AT, Borecki IB, Tsai MY, **Ordovás JM**, Hopkins PN, Lai CQ, Frazier-Wood AC, Straka RJ, Hixson JE, Province MA, Arnett DK. Genetic analysis of 16 NMR-lipoprotein fractions in humans, the GOLDN study. *Lipids*. 2013 Feb;48(2):155-65. doi: 10.1007/s11745-012-3740-8.
13. Zeisel SH, Waterland RA, **Ordovás JM**, Muoio DM, Jia W, Fodor A. Highlights of the 2012 Research Workshop: Using nutrigenomics and metabolomics in clinical nutrition research. *JPEN J Parenter Enteral Nutr*. 2013 Mar;37(2):190-200. doi: 10.1177/0148607112462401.
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16. **Konstantinidou V**, Covas MI, Sola R, Fitó M. Up-to date knowledge on the in vivo transcriptomic effect of the Mediterranean diet in humans. *Mol Nutr Food Res*. 2013 May;57(5):772-83. doi: 10.1002/mnfr.201200613.
17. **González-Vallinas M**, **Molina S**, Vicente G, de la Cueva A, **Vargas T**, Santoyo S, García-Risco MR, Fornari T, **Reglero G**, **Ramírez de Molina A**. Antitumor effect of 5-fluorouracil is enhanced by rosemary extract in both drug sensitive and resistant colon cancer cells. *Pharmacol Res*. 2013 Jun;72:61-8. doi: 10.1016/j.phrs.2013.03.010.
18. Víctor Casado, **Guillermo Reglero**, Carlos F. Torres. Production and Scale-up of phosphatidyl-tyrosol catalyzed by a food grade phospholipase D. *Food and Bioproducts Processing* 01/2013; 91(4):599-608. <http://dx.doi.org/10.1016/j.fbp.2013.02.002>
19. Alicia Gil-Ramírez, Laila Aldars-García, Marimuthu Palanisamy, Rodica M. Jiverdeanu, Alejandro Ruiz-Rodríguez, Francisco R. Marín, **Guillermo Reglero**, Cristina Soler-Rivas. Sterol enriched fractions obtained from *Agaricus bisporus* fruiting bodies and by-products by compressed fluid technologies (PLE and SFE). *Innovative Food Science & Emerging Technologies* (Impact Factor: 2.53). 18:101-107. DOI:10.1016/j.ifset.2013.01.007
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21. Óscar Fernández, Luis Vázquez, **Guillermo Reglero**, Carlos F. Torres. Discrimination against diacylglycerol ethers in lipase-catalysed ethanolysis of shark liver oil O. *Food Chemistry*, Volume 136, Issue 2, 15 January 2013, Pages 464-471. <http://dx.doi.org/10.1016/j.foodchem.2012.08.004>

- 22. F. Visioli**, M.M. Reilly, M. Rimoldi, A. Solari, D. Pareyson, for the CMT-TRIAAL & CMT-TRAUK Groups. Vitamin C and Charcot-Marie-Tooth 1A: Pharmacokinetic considerations. *PharmaNutrition*, Volume 1, Issue 1, January 2013, Pages 10-12. <http://dx.doi.org/10.1016/j.phanu.2012.10.001>.
- 23.** David Auñon-Calles, Lourdes Canut, **Francesco Visioli**. Toxicological evaluation of pure hydroxytyrosol. *Food and Chemical Toxicology*, Volume 55, 2013, Pages 498-504 <http://dx.doi.org/10.1016/j.fct.2013.01.030>.
- 24.** E. Arrebola Vivas, C. Gómez-Candela, C. Fernández Fernández, L. Bermejo López y **V. Loria Kohen**. Eficacia de un programa para el tratamiento del sobrepeso y la obesidad no mórbida en atención primaria y su influencia en la modificación de estilos de vida. *Nutr Hosp* 2013; 28 (1),137-141.
- 25.** Robles C, Viscidi R, Malats N, Silverman DT, Tardon A, Garcia-Closas R, Serra C, Carrato A, **Herranz J**, Lloreta J, Rothman N, Real FX, de SanJosé S, Kogevinas M. Bladder cancer and seroreactivity to BK, JC and Merkel cell polyomaviruses: The Spanish bladder cancer study. *Int J Cancer*. 2013 Jan 25. doi: 10.1002/ijc.28053.
- 26.** Tanaka, T., Ngwa, J.S., van Rooij, F.J.A., Zillikens, M.C., Wojczynski, M.K., Frazier-Wood, A.C., Houston, D.K., Kanoni, S., Lemaitre, R.N., Luan, J.a., **Ordovás JM**, et al. Genome-wide meta-analysis of observational studies shows common genetic variants associated with macronutrient intake. 2013. *Am J Clin Nutr*. 2013 Jun;97(6):1395-402. doi: 10.3945/ajcn.112.052183. Epub 2013 May 1.
- 27.** Shen, L.-R., Parnell, L.D., **Ordovas, J.M.**, and Lai, C.-Q. 2013. Curcumin and aging. *Biofactors* 39:133-140.
- 28. João Tomé-Carneiro**, Mar Larrosa, María J. Yáñez-Gascón, **Alberto Dávalos**, Judit Gil-Zamorano, Manuel González, Francisco J. García-Almagro, José A. Ruiz Ros, Francisco A. Tomás-Barberán, Juan Carlos Espín, María-Teresa García-Conesa. One-Year Supplementation with a Grape Extract Containing Resveratrol Modulates Inflammatory-Related microRNAs and Cytokines Expression in Peripheral Blood Mononuclear Cells of Type 2 Diabetes and Hypertensive Patients with Coronary Artery Disease. *Pharmacological Research*, Volume 72, June 2013, Pages 69–82. <http://dx.doi.org/10.1016/j.phrs.2013.03.011>.
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- 31.** Auñon-Calles D., **Giordano E.**, Bohnenberger S., and **Visioli F.** Hydroxytyrosol is not genotoxic in vitro. *Pharmacological Research* (2013) 74:87-93.
- 32.** Poli A., Marangoni F., Avogaro A., Barba B., Bellentani S., Bucci M., Cambieri R., Catapano A., Costanzo S., Cricelli C., de Gaetano G., Di Castelelino A., Faggiano P., Fattiroli F., Fontana L.,



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- 33. Visioli F.** Pharma and nutrition: crossing the Rubicon. *PharmaNutrition* (2013) 1: 9.
- 34.** Gil-Ramírez A, Clavijo C, Palanisamy M, Ruiz-Rodríguez A, Navarro-Rubio M, Pérez M, Marín FR, **Reglero G**, Soler-Rivas C. Study on the 3-hydroxy-3-methyl-glutaryl CoA reductase inhibitory properties of *Agaricus bisporus* and extraction of bioactive fractions using pressurised solvent technologies. *J Sci Food Agric*. 2013 Feb 13. doi: 10.1002/jsfa.6102.
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- 36. Dávalos A,** Suárez Y. MiRNA-based therapy: From bench to bedside. *Pharmacol Res.* 2013-75:1-2, 07/2013; DOI:10.1016/j.phrs.2013.06.010
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- 39.** Seijas R, **Herranz J**, Malats N. Basic principles for the development of biomarkers in oncology. *Arch Esp Urol.* 2013 Jun;66(5):423-31
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- 42.** De la Cueva A, **Ramírez de Molina A,** Alvarez-Ayerza N, Ramos MA, Cebrián A, Del Pulgar TG, Lacal JC. Combined 5-FU and ChoK α inhibitors as a new alternative therapy of colorectal cancer: evidence in human tumor-derived cell lines and mouse xenografts. *PLoS One.* 2013 Jun 10;8(6):e64961.
- 43.** Vicente G., **Molina S., González-Vallinas M,** García-Risco MR, Fornari T, **Reglero G, Ramírez de Molina A.** Supercritical rosemary extracts, their antioxidant activity and effect on hepatic tumor progression. *The Journal of Supercritical Fluids.* 79, pp. 101 - 108. Elsevier, 07/2013.
- 44.** Álvarez-Fernández M, **Sánchez-Martínez R,** Sanz-Castillo B, Gan PP, Sanz-Flores M, Trakala M, Ruiz-Torres M, Lorca T, Castro A, Malumbres M. Greatwall is essential to prevent mitotic collapse after nuclear envelope breakdown in mammals. *Proc Natl Acad Sci U S A.* 2013 Oct 22; 110(43):17374-9. doi: 10.1073/pnas.1310745110. Epub 2013 Oct 7.
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50. Almudena Pérez-Torres, Elena González, M^a Auxiliadora Bajo, Samara Palma Milla, Rafael Sánchez-Villanueva, Laura María Bermejo, Gloria del Peso, Rafael Selgas, Carmen Gómez-Candela y el Grupo de nutrición renal de La Paz: Olga Celdilla-Diez, B. López Plaza, Helena García-Llana, L. Zurita, Rosa, Raquel Díaz, **Viviana Loria**, Arturo Lisbona Catalan y Thabata Koestner. "Evaluación de un programa de Programa de Intervención Nutricional en pacientes con enfermedad renal crónica avanzada (ERCA)". *Nutr Hosp.* 2013;28(6):2252-2260.
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2014

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