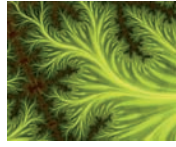


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# publications

# 09

## 2009

1. Alonso, L.; Cuesta, P.; Fontecha, J.; **Juárez, M.** and Gilliland, S. E. Use of  $\beta$ -cyclodextrin to decrease the level of cholesterol in milk fat. *Journal of Dairy Science* 92, 863–869 (2009).
2. Gómez-Cortés, P., Frutos, P., Mantecón, A.R., **Juárez, M.**, De la Fuente, M.A. y Hervás, G. Effect of the supplementation of grazing dairy ewes with a cereal concentrate on animal performance, milk fatty acid profile and rumen fermentation. *Journal of Dairy Science*, 92, 3964–3972 (2009).
3. Gómez-Cortés, P., Bach, A., Luna, P., **Juárez, M.** y De La Fuente, M.A. Extruded linseed on Ewes Rations Improves Omega-3 Fatty Acids and Conjugated Linoleic Acid Contents in Cheese and Milk Fat. *Journal of Dairy Science*, 92, 4122–4134 (2009).
4. Gómez-Cortés, P., Tyburczy, C.; Brenna, J.T.; **Juárez, M.** y De La Fuente, M.A. Characterization of cis-9 trans-11 trans-15 18:3 in milk fat by gas chromatography and covalent adduct chemical ionization tandem mass spectrometry. *Journal of Lipid Research* 50, 2412–2420 (2009).
5. Torres CF, Torreló G, Señoráns FJ, **Reglero G.** Supercritical Fluid Fractionation of Fatty Acid Ethyl Esters from Butteroil. *J. Dairy Sci.* 92, 1840–1845 (2009).
6. Torreló G, Torres CF, Señoráns FJ, Blanco RM, **Reglero G.** Solvent-free preparation of phytosterol esters with fatty acids from butterfat in equimolecular conditions in the presence of a lipase from *Candida rugosa*. *J Chem Technol Biotechnol* 84, 745–750 (2009).
7. Torres CF, Tenllado D, Señoráns FJ, **Reglero G.** A versatile GC method for the analysis of alkyl-glycerols and other neutral lipid classes. *Chromatographia* 69 (7/8), 729–734 (2009).
8. CF Torres, T Fornari, G Torreló, FJ Señoráns, **G Reglero.** Production of phytosterol esters from soybean oil deodorizer distillates. *Eur J Lipid Sci Tech.* 111, 459–463 (2009).
9. T Fornari, CF Torres, FJ Señoráns, **G Reglero.** Simulation and optimization of supercritical fluid purification of phytosterol esters. *AIChE Journal* 55, 1023–1029 (2009).
10. **Corella D,** González JI, Bulló M, Carrasco P, Portolés O, Díez-Espino J, Covas MI, Ruíz-Gutiérrez V, Gómez-Gracia E, Arós F, Fiol M, Herrera MC, Santos JM, Sáez G, Lamuela R, Lahoz C, Vinyoles E, Ros E, Estruch R. Polymorphisms cyclooxygenase-2 -765G>C and interleukin-6 -174G>C are associated with serum inflammation markers in a high cardiovascular risk population and do not modify the response to a Mediterranean diet supplemented with virgin olive oil or nuts. *J Nutr.* 2009;139(1):128–34.
11. Perez-Martinez P, **Corella D,** Shen J, Arnett DK, Yiannakouris N, Tai ES, Orho-Melander M, Tucker KL, Tsai M, Straka RJ, Province M, Kai CS, Perez-Jimenez F, Lai CQ, Lopez-Miranda J, Guillen M, Parnell LD, Borecki I, Kathiresan S, Ordovas JM. Association between glucokinase regulatory protein (GCKR) and apolipoprotein A5 (APOA5) gene polymorphisms and triacylglycerol concentrations in fasting, postprandial, and fenofibrate-treated states. *Am J Clin Nutr.* 2009;89:391–9.





- 12.** Estruch R, Martínez-González MA, **Corella D**, Basora-Gallisá J, Ruiz-Gutiérrez V, Covas MI, Fiol M, Gómez-Gracia E, López-Sabater MC, Escoda R, Pena MA, Diez-Espino J, Lahoz C, Lapeira J, Sáez G, Ros E; PREDIMED Study Investigators. Effects of dietary fibre intake on risk factors for cardiovascular disease in subjects at high risk. *J Epidemiol Community Health*. 2009;63(7):582-8.
- 13.** Vaya A, Martínez Triguero M, Romagnoli M, López M, Ricart A, **Corella D**. Lack of association between hemorheological alterations and upper-extremity deep vein thrombosis. *Clin Hemorheol Microcirc*. 2009;41(4):279-85.
- 14.** Escurriol V, Cofán M, Serra M, Bulló M, Basora J, Salas-Salvadó J, **Corella D**, Zazpe I, Martínez-González MA, Ruiz-Gutiérrez V, Estruch R, Ros E. Serum sterol responses to increasing plant sterol intake from natural foods in the Mediterranean diet. *Eur J Nutr*. 2009;48: 373-82.
- 15.** **Corella D**, Peloso G, Arnett DK, Demissie S, Cupples LA, Tucker K, Lai CQ, Parnell LD, Coltell O, Lee YC, Ordovas JM. APOA2, dietary fat, and body mass index: replication of a gene-diet interaction in 3 independent populations. *Arch Intern Med*. 2009; 169(20):1897-906.
- 16.** Fandos M, **Corella D**, Guillén M, Portolés O, Carrasco P, Iradi A, Martínez-González MA, Estruch R, Covas MI, Lamuela-Raventós RM, Michavilla MT, Cerdá C, Torregrosa R, Redón J, Chaves FF, Tormos MC, Ocete D, Sáez GT. Impact of cardiovascular risk factors on oxidative stress and DNA damage in a high risk Mediterranean population. *Free Radic Res*. 2009;43(12):1179-86.
- 17.** **Corella D**, Ordovas JM. Nutrigenomics in cardiovascular medicine. *Circ Cardiovasc Genet*. 2009;2:637-51.
- 18.** P. Carmona, M. Molina, **A. Rodríguez-Casado**. On the nucleic acid structures in triplexes and protein complexes as revealed by Raman and infrared spectroscopy. Insights into Vibrational Spectroscopy of Nucleic Acids and their Complexes (2009) ISBN: 978-81-7895-407-3. Editors: C. M. Muntean and I. Bratu.
- 19.** P. Carmona, **A. Rodríguez-Casado**, M. Molina. Improving real-time measurement of H/D exchange using a FTIR biospectroscopic probe. *Analytical and Bioanalytical Chemistry* 2009;393:1289–1295.
- 20.** P. Carmona, M. Molina, **A. Rodríguez-Casado**. Raman spectra and structure of a 25mer HCV RNA. *Journal of Raman Spectroscopy* 2009;40(8):893 – 897.



13. I. Sánchez-González, **A. Rodríguez-Casado**, P. Carmona, M. Careche. Raman spectroscopic study of surimi gelation by addition of wheat dietary fibre. *Food Chemistry* 2009;112(1):162-168.

13. Hernando E, Sarmentero-Estrada J, Koppie T, Belda-Iniesta C, Ramírez de Molina V, Cejas P, Ozu C, Le C, Sánchez JJ, González-Barón M, Koutcher J, Cerdón-Cardó C, Bochner BH, Lacal JC, **Ramírez de Molina A**. A critical role for choline kinase-alpha in the aggressiveness of bladder carcinomas. *Oncogene*. 2009 Jul 2;28(26):2425-35.

14. Gallego-Ortega D, **Ramírez de Molina A**, Ramos MA, Valdes-Mora F, Barderas MG, Sarmentero-Estrada J, Lacal JC. Differential role of human choline kinase alpha and beta enzymes in lipid metabolism: implications in cancer onset and treatment. *PLoS One*. 2009 Nov 12;4(11):e7819.

15. Chua BT, Gallego-Ortega D, **Ramírez de Molina A**, Ullrich A, Lacal JC, Downward J. Regulation of Akt(ser473) phosphorylation by Choline kinase in breast carcinoma cells. *Mol Cancer*. 2009 Dec 31;8:131.

16. Valdés-Mora F, Gómez del Pulgar T, Bandrés E, Cejas P, **Ramírez de Molina A**, Pérez-Palacios R, Gallego-Ortega D, García-Cabezas MA, Casado E, Larrauri J, Nistal M, González-Barón M, García-Foncillas J, Lacal JC. TWIST1 overexpression is associated with nodal invasion and male sex in primary colorectal cancer. *Ann Surg Oncol*. 2009 Jan;16(1):78-87.

17. Tosin, M, **Betancor, L**, Stephens, E, Ariel Li, W. M., Spencer, JB, Leadlay, P.F. (2009) Synthetic chain terminators off-load intermediates from a type I Polyketide Synthase. *ChemBiochem*, (Accepted).

18. **Betancor, L** and Luckarift, HR (2009) "Co-immobilized coupled enzyme systems in biotechnology." *Biotech. Gen. Eng. Reviews*. (Accepted).

