

LIST OF PUBLICATIONS

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2007

80. Andreu A., Sayas E., Hartmann A., Carbonell-Barrachina A.A. 2007. Sioma® oil, the equatorial equivalent of olive oil [In Spanish]. *Alimentación, Equipos y Tecnología*. (En prensa).

79. Signes A., Mitra K., Burló F., Carbonell-Barrachina A.A. 2007. Effects of two different rice dehusking procedures on total arsenic concentration in rice. *Eur. Food Res. Technol.* (En prensa).

78. Verdú A., Serrano-Megías M., Vázquez-Araújo L., Pérez-López A., Carbonell-Barrachina A.A. 2007. Differences in Jijona turrón concepts between consumers and manufacturers. *J. Sci. Food Agric.* (En prensa).

77. Signes A., Burló F., Casinos T., Carbonell-Barrachina A.A. 2007. Speciation of arsenic in licorice confectionery products and estimation of health risks. *Food Sci. Technol. Int.* 13(1): 41-47.

76. Vázquez-Araújo L., Allés Pinzón A., Carbonell-Barrachina A.A. 2007. Sensory evaluation of food as a tool for quality control in the ice-cream industry [In

Spanish]. *Alimentación, Equipos y Tecnología*. (En prensa).

75. Verdú A., Vázquez-Araújo L., Carbonell-Barrachina A.A. 2007. Mathematical quantification of almond content in Jijona turrón. *Eur. Food Res. Technol.* DOI 10.1007/s00217-0540-5).

74. Signes-Pastor A., Burló F., Mitra K., Carbonell-Barrachina A.A. 2007. Arsenic biogeochemistry as affected by phosphorus fertilizer addition, redox potential and pH in a West Bengal (India) soil. *Geoderma*. 137: 504-510.

73. Signes A.J., Burló F., Martínez-Sánchez F., Carbonell-Barrachina A.A. 2007. Effects of preharvest bagging on quality of black table grapes. *World J. Agric. Sci.* Aceptado para publicación.

72. Vázquez L., Verdú A., Miquel A., Burló F., Carbonell-Barrachina A.A., 2007. Changes in physico-chemical properties, hydroxymethylfurfural and volatile compounds during concentration of honey and sugars in Alicante and Jijona turrón. *Eur. Food Res. Technol.* DOI: 10.1007/s00217-006-0479-6

71. Pérez-López A.J., López-Nicolás J.M., Carbonell-Barrachina A.A. 2007. Effects of organic farming on minerals contents and aroma composition of Clemenules mandarin juice. *Eur. Food Res. Technol.* DOI: 10.1007/s00217-006-0412-z

2006

70. López-Nicolás J.M., Núñez-Delicado E., Pérez-López A.J., Carbonell-Barrachina A.A., Cuadra-Crespo P. 2006. Determination of stoichiometric coefficients and apparent formation constants for β -cyclodextrin complexes of trans-resveratrol using reversed-phase liquid chromatography. *J. Chrom. A*. 1135: 158-165.

69. Pérez-López A.J., Carbonell-Barrachina A.A. 2006. Volatile odour components and sensory quality of fresh and processed mandarin juices. *J. Sci. Food Agric.* 86: 2404-2411.

68. Carbonell-Barrachina A.A., Agustí A., Ruiz J.J. 2006. Analysis of flavor volatile compounds by dynamic headspace in traditional and hybrid cultivars of Spanish tomatoes. *Eur. Food Res. Technol.* 222: 536-542.

67. Pérez-López A., Beltrán F., Serrano-Megias M., Saura D., Carbonell-Barrachina A.A. 2006. Changes in orange juice color by addition of mandarin juice. *Eur. Food Res. Technol.* 222: 516-520.

66. Guillén-Ríos P., Burló F., Martínez-Sánchez F., Carbonell-Barrachina A.A. 2006. Effects of processing on the quality of preserve quartered artichokes hearts. *J. Food Sci.* 71(2): S176-180.

65. Pérez-López A., Saura D., Lorente J., Carbonell-Barrachina A.A. 2006. Limonene, linalool, α -terpineol, and terpinen-4-ol as quality control parameters in mandarin juice processing. *Eur. Food Res. Technol.* 222: 281-285.

64. Vázquez-Araújo L., Verdú A., Murcia R., Burló F., Carbonell-Barrachina A.A. 2006. Instrumental texture of a typical Spanish confectionery product Xixona turrón as affected by commercial category and manufacturing company. *J. Text. Stud.* 37: 63-79.

2005

63. Vázquez-Araújo L., Pérez-Castejón V., Verdú A., Carbonell-Barrachina A.A. 2005. Reclutamiento, selección, entrenamiento y validación de un panel de catadores especializado en turrón y sus materias primas. *Alimentación, Equipos y Tecnología* septiembre:92-98.

62. Miquel M.M.A., Giménez Sánchez J.L., Pérez-Castejón, A. Verdú, Carbonell-Barrachina A.A. 2005. Presencia de 5-hidroximetil furfural en turrón de Jijona. *Alimentación, Equipos y Tecnología* marzo:58-60.

61. A.J. Pérez-López; A.A. Carbonell-Barrachina. 2004. Fiber content in the edible portion of eight mandarin

oranges cultivars. *J. Food Qual.* 28:154-162.

2004

60. A. Fullana; A.A. Carbonell-Barrachina; S. Sidhu. 2004. Volatile aldehyde emissions from heated cooking oils. *J. Sci. Food Agric.* 84(15): 2015-2021.

59. C. Mora; A.A. Carbonell-Barrachina; F. Martínez-Sánchez. 2004. El fondillón: Historia, elaboración y cata (I). *Enorigen.* 3: 26-29.

58. A.A. Carbonell-Barrachina; A. Rocamora; C. García-Gomis; F. Martínez-Sánchez; F. Burló. 2004. Arsenic and zinc biogeochemistry in pyrite mine waste from the Aznalcóllar environmental disaster. *Geoderma.* 122: 195-203.

57. A. Fullana; A.A. Carbonell-Barrachina; S. Sidhu. 2004. Comparison of volatile aldehydes present in the cooking fumes of extra virgin olive, olive, and canola oils. *J. Agric. Food Chem.* 52(16): 5207-5214.

56. D. Saura; N. Martí; J. Laencina; V. Lizama; A.A. Carbonell-Barrachina. 2004. Sensory evaluation of canned peach halves acidified with clarified lemon juice. *J. Food Sci.* 69(2): 74-78.

55. A.A. Carbonell-Barrachina; M.D. Pastor Aracil; A. Fullana; S. Sidhu. 2004. Generación de aldehídos volátiles durante el calentamiento de aceite de oliva y aceite de oliva virgen extra. *Alimentación, Equipos y Tecnología.* Abril: 57-63.

54. A.A. Carbonell Barrachina; A. Palenzuela; F. Burló; A. Verdú. 2004. Análisis sensorial de turrón de Jijona: Apariencia. *Alimentación, Equipos y Tecnología.* Mayo: 101-106.

53. A. Palenzuela; F. Burló; A. Verdú; A.A. Carbonell-Barrachina. 2004. Atributos sensoriales claves en el análisis sensorial de turrón de Jijona.

2003

- 52.** A.A. Carbonell-Barrachina; M.P. Zaragoza; Y. Lario; P. Aracil; F. Burló. 2003. Development of a high sensory quality garlic paste. *J. Food Sci.* 68(7): 2351-2355.
- 51.** D. Saura; J. Laencina; A.J. Pérez-López; V. Lizama; A.A. Carbonell-Barrachina. 2003. Aroma of canned peach halves acidified with clarified lemon juice. *J. Food Sci.* 68(3): 1080-1085.
- 50.** A.A. Carbonell-Barrachina; P. Aracil; E. García; F. Burló; F. Martínez-Sánchez. 2003. Source of arsenic in confectionery products. *J. Agric. Food Chem.* 51: 1749-1752.

2002

- 49.** A.A. Carbonell-Barrachina; Y. Lario; P. Aracil; P. Fayos; F. Burló. 2002. Transferencia de arsénico y cobre desde piensos a dorada de piscifactoría. *Alimentaria.* July-August: 81-86.
- 48.** A.A. Carbonell-Barrachina; E. García; J. Sánchez-Soriano; P. Aracil; F. Burló. 2002. Effects of raw materials, ingredients and production lines on arsenic and copper concentrations in confectionery products. *J. Agric. Food Chem.* 50: 3738-3742.
- 47.** Y. Lario; F. Burló; P. Aracil; D. Martínez-Romero; S. Castillo; D. Valero; A.A. Carbonell-Barrachina. 2002. Methylarsonic and dimethylarsinic acids toxicity and total arsenic accumulation in edible bush beans, *Phaseolus vulgaris*. *Food Additives & Contaminants.* 19(5): 417-426.
- 46.** A. Pérez-Vicente; D. Martínez-Romero; A. Carbonell; F. Burló; M. Serrano; F. Riquelme; F. Guillén; D.

Valero. 2002. Role of polyamines on extending shelf life and the reduction of mechanical damage during plum (*Prunus salicina* Lindl.) storage. *Postharvest Biol. Tec.* 25(1): 25-32.

- 45.** D. Martínez-Romero; M. Serrano; A. Carbonell; L. Burgos; F. Riquelme; D. Valero. 2002. Effects of Postharvest putrescine treatment on extending shelf life and reducing mechanical damage in apricot. *J. Food Sci.* 67(5): 1706-1712.
- 44.** A.A. Carbonell-Barrachina; A. Jugsujinda; R. DeLaune. 2001. Phosphogypsum chemistry under highly anoxic conditions. *Waste Management.* 22: 657-665.

2001

- 43.** P. Aracil; F. Burló; Y. Lario; D. Martínez-Romero; D. Valero; A.A. Carbonell-Barrachina. 2001. Total arsenic accumulation in edible pods and seeds of *Phaseolus vulgaris*. *J. Environ. Sci. Health, Part B.* 36(6): 849-861.
- 42.** M. Abellán-Palazón; A.A. Carbonell-Barrachina; J.L. Jiménez-Sánchez; M. López-Segura; F. Martínez-Sánchez. 2001. Effect of titanium ascorbate treatment on red and yellow pigment composition of paprika cultivars. *Acta Alim.* 30(2): 159-171.

2000

- 41.** A. Carbonell Barrachina; J.D. Jordá; F.M. Burló; F. Martínez Sánchez. 2000. Evaluation of arsenite sorption in Spanish soils. *Commun. Soil Sci. Plant Anal.* 31(17-18): 2865-2879.
- 40.** D. Martínez-Romero; D. Valero; M. Serrano; F. Burló; A. Carbonell; L. Burgos; F. Riquelme. 2000. Exogenous polyamines and gibberellic acid effects on peach (*Prunus persica* L.) storability improvement. *J. Food Sci.* 65(2): 288-294.

- 39.** A. Carbonell Barrachina; D. Valero Garrido; D. Martínez Romero; M. Serrano Mula; F. Burló Carbonell; F. Martínez Sánchez; F. Riquelme Ballesteros. 2000. Polyamines: Biosynthesis, metabolism, and their role in ripening and post harvest handling of fruits. *Food Sci. Tech. Int.* 6(2): 85-95.
- 38.** S. Reverte; A.A. Carbonell-Barrachina; J.L. Giménez; M. Carvajal. 2000. Colour content and stability in red pepper as affected by cultivar, harvest time, and titanium spray. *Acta Alim.* 29(1): 9-23.
- 37.** A.A. Carbonell-Barrachina; A. Jugsujinda; F. Burló; R.D. DeLaune; W.H. Patrick, Jr. 2000. Arsenic chemistry in municipal sewage sludge as affected by redox potential and pH. *Water Research.* 34(1): 216- 224.

1999

- 36.** A. Burgos-Hernández; K. Rosas-Burgos; B. Ramírez-Wong; A.A. Carbonell-Barrachina; F.J. Cinco-Moroyoqui. 1999. Identification of α -amylase inhibitors in triticale grain. *J. Sci. Food Agr.* 79: 1671-1675.
- 35.** A.A. Carbonell-Barrachina; F. Burló; E. López; F. Martínez-Sánchez. 1999. Arsenic toxicity and accumulation in radish as affected by arsenic chemical speciation. *J. Environ. Sci. Health, B.* 34(4): 661-679.
- 34.** A.A. Carbonell-Barrachina; F. Burló; D. Valero; E. López; D. Martínez-Romero; F. Martínez-Sánchez. 1999. Arsenic toxicity and accumulation in turnip as affected by arsenic chemical speciation. *J. Agr. Food Chem.* 47(6): 2288-2294.
- 33.** A.A. Carbonell-Barrachina; A. Jugsujinda; S. Sirisukhodom; P. Anurakpongsatorn; F. Burló; R.D. DeLaune; W.H. Patrick, Jr. 1999. The influence of redox chemistry and pH on chemically active forms of arsenic in

sewage sludge-amended soil. *Environ. Int.* 25(5): 613-618.

- 32.** J.D. Kim; A. Jugsujinda; A.A. Carbonell-Barrachina; R.D. DeLaune; W.H. Patrick, Jr. 1999. Physiological functions and methane and oxygen exchange in Korean rice cultivars grown under controlled soil redox potential. *Botanical Bulletin of Academia Sinica.* 40: 185-191.
- 31.** F. Burló; I. Guijarro; A.A. Carbonell-Barrachina; D. Valero; F. Martínez-Sánchez. 1999. Arsenic species: effects on and accumulation by tomato plants. *J. Agr. Food Chem.* 47: 1247-1253.
- 30.** A. Carbonell Barrachina; R. Pulido; R.D. DeLaune; W.H. Patrick, Jr. 1999. Soluble barium in barite and phosphogypsum amended Mississippi River alluvial sediment. *J. Environ. Qual.* 28: 316-321.

29. A. Carbonell Barrachina; J.D. Porthouse; C.K. Mulbah; R.D. DeLaune; W.H. Patrick, Jr. 1999. Metal solubility in phosphogypsum amended sediment under controlled sediment pH and redox conditions. *J. Environ. Qual.* 28: 232-242.

28. G. Palacios; I. Gómez; A. Carbonell Barrachina; J. Navarro-Pedreño; J. Mataix. 1999. The influence of organic amendment and nickel pollution on tomato fruit yield and quality. *J. Environ. Sci. Health, B.* 34(1): 133-150.

1998

- 27.** G. Palacios; I. Gómez; A. Carbonell Barrachina; J. Navarro; J. Mataix. 1998. Effect of nickel concentration on tomato plant nutrition and dry matter yield. *J. Plant Nutr.* 21(10): 2179-2191.
- 26.** A. Carbonell Barrachina; M.A. Aarabi; R.D. DeLaune; R.P. Gambrell; W.H. Patrick, Jr. 1998. Arsenic in wetland vegetation: Availability, phytotoxicity, uptake and effects on

plant growth and nutrition. *Sci. Total Environ.* 217: 189-199.

25. A. Carbonell Barrachina; F. Burló; J. Mataix. 1998. Response of bean plant nutrition (micronutrients) to arsenic and salinity. *J. Plant Nutr.* 21(6): 1287-1299.
24. A. Carbonell Barrachina; F. Burló; J. Mataix. 1998. Arsenite sorption in Spanish soils as affected by temperature. *Commun. Soil Sci. Plant Anal.* 29(5,6): 657-670.
23. P. Parkpain; S. Sirisukhodom; A.A. Carbonell-Barrachina. 1998. Heavy metals and nutrients chemistry in sewage sludge amended Thai soils. *J. Environ. Sci. Health, A.* 33(4): 573-597.
22. A. Carbonell Barrachina; F. Burló; J. Mataix. 1998. Tomato plant nutrition as affected by arsenite concentration. *J. Plant Nutr.* 21(2): 235-244.
21. A. Carbonell Barrachina; M.A. Aarabi; R.D. DeLaune; R.P. Gambrell; W.H. Patrick, Jr. 1998. The influence of arsenic chemical form and concentration on *Spartina patens* and *Spartina alterniflora* growth and tissue arsenic concentration. *Plant Soil.* 198: 33-43.
20. A.A. Carbonell; M.A. Aarabi; R.D. DeLaune; R.P. Gambrell; W.H. Patrick, Jr. 1998. Bioavailability and uptake of arsenic by wetland vegetation: Effects on plant growth and nutrition. *J. Environ. Sci. Health, A.* 33(1): 45-66.
19. A. Carbonell; R.D. DeLaune; W.H. Patrick, Jr. 1998. Effect of phosphogypsum and barite amendments on heavy metals and trace elements chemistry in Mississippi River alluvial sediment. *J. Environ. Sci. Health, A.* 33(1): 1-21.

1997

18. A. Carbonell Barrachina; F. Burló; A. Burgos; E. López; J. Mataix. 1997. The

influence of arsenite concentration on arsenic accumulation in tomato and bean plants. *Sci. Horti.* 71(3,4): 167-176. 1997.

17. A. Carbonell Barrachina; F. Burló Carbonell; E. López; J. Mataix. 1997. Efecto de la aplicación de metaarsenito sódico en la acumulación de arsénico y en la nutrición mineral de uva de mesa. *Investigación Agraria.* 12(1,2 y 3): 73-88.
16. A. Carbonell Barrachina; F. Burló Carbonell; J. Mataix Beneyto. 1997. Effect of sodium arsenite and sodium chloride on bean plant nutrition (macronutrients). *J. Plant Nutr.* 20(11): 1617-1633.
15. F. Burló Carbonell; A. Carbonell Barrachina; A. Vidal Roig; J. Mataix Beneyto. 1997. Sensitivity to salinity in loquat plants (*Eriobotryae Japonica* L.). *Fresenius Environ. Bull.* 6: 481-488.
14. A. Carbonell Barrachina; F. Burló Carbonell; J. Mataix Beneyto. 1997. Arsenic uptake, distribution, and accumulation in bean plants: Effect of arsenite and salinity on plant growth and yield. *J. Plant Nutr.* 20(10): 1419-1430.
13. A. Carbonell Barrachina; F. Burló Carbonell; J. Mataix Beneyto. 1997. Effect of sodium arsenite on arsenic accumulation and distribution in leaves and fruit of *Vitis vinifera*. *J. Plant Nutr.* 20(2-3): 379-387.
12. F. Burló Carbonell; A. Carbonell Barrachina; A. Vidal Roig; J. Mataix Beneyto. 1997. Effects of irrigation water quality on loquat plant nutrition: Sensitivity of loquat plant to salinity. *J. Plant Nutr.* 20(1): 119-130.

1996

11. A. Carbonell Barrachina; F. Burló Carbonell; J. Mataix Beneyto. 1996. Kinetics of arsenite sorption and desorption in Spanish soils. *Commun.*

Soil Sci. Plant Anal. 27(17-18): 3101-3117.

10. A. Carbonell Barrachina; F. Burló Carbonell; J. Mataix Beneyto. 1996. Strategies of tomato and bean plants tolerance to arsenic. *Fresenius Environ. Bull.* 5: 289-294.
9. A. Carbonell Barrachina; R. Moral Herrero; D. T. Cooke; David T. Clarkson. 1996. A study of the interaction between tetracycline treatment and salinity in oat shoot plasma membranes. *Plant Physiol. Bioch.* 34(4): 571-577.
8. E. López Martínez; A. Carbonell Barrachina; F. Burló Carbonell; M. Arenas Pozo; M. Alemany García; J. Mataix Beneyto. 1996. Molybdenum uptake, distribution and accumulation in bean plants. *Fresenius Environ. Bull.* 5: 73-78.
7. A. Carbonell Barrachina; F. Burló Carbonell; J. Mataix Beneyto. 1996. Arsenic uptake, distribution and accumulation in bean plants: Human health risk. *Fresenius Environ. Bull.* 5: 21-28.
6. A.A. Carbonell Barrachina; F.M. Burló Carbonell; J.J. Mataix Beneyto. 1996. Arsenite adsorption and desorption by a calcareous soil. II. Isotherms. *Agrochimica.* XL(2-3): 79-84.
5. A.A. Carbonell Barrachina; F.M. Burló Carbonell; J.J. Mataix Beneyto. 1996. Arsenite adsorption and desorption by a calcareous soil. I. Kinetics. *Agrochimica.* XL(1): 41-47.

1995

4. A. Carbonell Barrachina; F. Burló Carbonell; J. Mataix Beneyto. 1995. Arsenic uptake, distribution and accumulation in tomato plants: Human health risk. *Fresenius Environ. Bull.* 4: 395-400.
3. A. Carbonell Barrachina; F. Burló Carbonell; J. Mataix Beneyto. 1995. Arsenic uptake, distribution, and accumulation in tomato plants: Effect of arsenite on plant growth and yield. *J. Plant Nutr.* 18(6): 1237-1250.

1994

2. A. Carbonell Barrachina; F. Burló Carbonell; J. Mataix Beneyto. 1994. Effect of arsenite on the concentrations of micronutrients in tomato plants grown in hydroponic culture. *J. Plant Nutr.* 17(11): 1887-1903.

1992

1. F. Burló; A. Carbonell; J. Mataix. 1992. Efectos del As en el comportamiento vegetal de *Lycopersicum esculentum* Mill. Relación del As en hojas y frutos con parámetros físicos. *Suelo y Planta.* 2(4): 641-650.