

## Publicaciones en revistas científicas

### 2018

Carvajal, F., Rosales, R., Palma, F., Manzano, S., Cañizares, J., Jamilena, M., & Garrido, D. *Transcriptomic changes in Cucurbita pepo fruit after cold storage: differential response between two cultivars contrasting in chilling sensitivity.* **BMC genomics**, 19(1), 125.

### 2017

Carvajal, F., Palma, F., Jiménez-Muñoz, R., Jamilena, M. Pulido, A., Garrido, D. *Unravelling the role of abscisic acid in chilling tolerance of zucchini during postharvest cold storage.* **Postharvest Biology and Technology**, 133, pp. 26-35.

Valenzuela, J.L., Manzano, S., Palma, F., Carvajal, F., Garrido D., Jamilena, M. *Oxidative stress associated with chilling injury in immature fruit: Postharvest technological and biotechnological solutions.* **International Journal of Molecular Sciences**, 18, 1467; doi:10.3390/ijms18071467.

Megías-, Zoraida M<sup>a</sup>; Manzano-Medina, Susana; Martínez-Martínez, Cecilia; García, Alicia; Aguado , Encarnación; Garrido-Garrido, M Dolores; Reboloso-Fuentes, Maria Del Mar; Valenzuela-Manjon-Cabeza, Juan Luis; Jamilena-Quesada, Manuel. *Postharvest cold tolerance in summer squash and its association with reduced cold-induced ethylene production.* **Euphytica (Wageningen)**,213(1), pp.9.

### 2016

Rosales-López, Raquel. *Incidence and etiology of postharvest diseases of fresh fruit of date palm (Phoenix dactylifera L.) in the grove of Elx (Spain).* **Phytopathologia Mediterranea**, 55(3), pp. 391-400.

Megías-, Zoraida M<sup>a</sup>; Martínez-Martínez, Cecilia; Manzano-Medina, Susana; García, Alicia; Reboloso-Fuentes, Maria Del Mar; Valenzuela-Manjon-Cabeza, Juan Luis; Garrido-Garrido, M Dolores; Jamilena-Quesada, Manuel. *Ethylene biosynthesis and signalling elements involved in chilling injury and other postharvest quality traits in the non-climacteric fruit of zucchini (Cucurbita pepo).* **Postharvest Biology and Technology**, 113, pp. 48-57.

Palma-Martín, Francisco; Carvajal-Moreno, Fátima; Jamilena-Quesada, Manuel; Garrido-Garrido, M Dolores. *Putrescine treatment increases the antioxidant response and carbohydrate content in zucchini fruit stored at low temperature*. **Postharvest Biology and Technology**, pp.68-70.

Rosales-López, Raquel. *Short-Term Exposure to High CO<sub>2</sub> and O<sub>2</sub> Atmospheres to Inhibit Postharvest Gray Mold of Pomegranate Fruit*. **Plant disease**, 100(2), pp. 424-430.

Rosales-López, Raquel. *Low Temperature and Short-Term High-CO<sub>2</sub> Treatment in Postharvest Storage of Table Grapes at Two Maturity Stages: Effects on Transcriptome Profiling*. **Frontiers in Plant Science**, 7(1020), pp. 1-16.

## **2015**

Megías-, Zoraida M<sup>a</sup>; Martínez-Martínez, Cecilia; Manzano-Medina, Susana; Garcia, Alicia; Reboloso-Fuentes, Maria Del Mar; Garrido-Garrido, M Dolores; Valenzuela-Manjon-Cabeza, Juan Luis; Jamilena-Quesada, Manuel. *Individual Shrink Wrapping of Zucchini Fruit Improves Postharvest Chilling Tolerance Associated with a Reduction in Ethylene Production and Oxidative Stress Metabolites*. **PLoS One**, 10(7).

Carvajal-Moreno, Fátima; Palma-Martín, Francisco; Jamilena-Quesada, Manuel; Garrido-Garrido, M Dolores. *Preconditioning treatment induces chilling tolerance in zucchini fruit improving different physiological mechanisms against cold injury*. **Annals of Applied Biology**, 166(2), pp. 340-354.

Megías-, Zoraida M<sup>a</sup>; Barrera-Romero, Alejandro Jose; Manzano-Medina, Susana; Martínez-Martínez, Cecilia; Garrido-Garrido, M Dolores; Valenzuela-Manjon-Cabeza, Juan Luis; Jamilena-Quesada, Manuel. *Physical and chemical treatments enhancing postharvest fruit quality in zucchini*. **Acta Horticulturae**, 1091, pp.141-146.

Megías-, Zoraida M<sup>a</sup>; Manzano-Medina, Susana; Martínez-Martínez, Cecilia; Barrera-Romero, Alejandro Jose; Garrido-Garrido, M Dolores; Valenzuela-Manjon-Cabeza, Juan Luis; Jamilena-Quesada, Manuel. *Effects of 1-mcp on different postharvest quality parameters in zucchini*. **Acta Horticulturae**, 1091, pp. 83-89.

Rosales-López, Raquel. *Effects of high CO<sub>2</sub> levels on fermentation, peroxidation and cellular water stress in *Fragaria vesca* stored at low temperature in conditions of unlimited O<sub>2</sub>*. **Journal of Agricultural and Food**

**Chemistry**, 63, pp-761-768.

Rosales-López, Raquel. *Differential regulation of dehydrin expression and trehalose levels in Cardinal table grape skin by low temperature and high CO<sub>2</sub>*. **Journal of Plant Physiology**, 179, pp.1-11.

Palma-Martín, Francisco; Carvajal-Moreno, Fátima; Ramos-Clavero, Jose M; Jamilena-Quesada, Manuel; Garrido-Garrido, M Dolores. *Effect of putrescine application on maintenance of zucchini fruit quality during cold storage: Contribution of GABA shunt and other related nitrogen metabolites*. **Postharvest Biology and Technology**, 99, pp. 131-140.

Carvajal-Moreno, Fátima; Palma-Martín, Francisco; Jamilena-Quesada, Manuel; Garrido-Garrido, M Dolores. *Cell wall metabolism and chilling injury during postharvest cold storage in zucchini fruit*. **Postharvest Biology and Technology**, 108, pp. 68-77.

Rosales-López, Raquel; Palma-Martín, Francisco. *CO<sub>2</sub>-driven changes in energy and fermentative metabolism in harvested strawberries*. **Postharvest Biology and Technology**, 110, pp. 33-39.

## **2014**

Martínez-Martínez, Cecilia; Manzano-Medina, Susana; Megías-, Zoraida M<sup>a</sup>; Barrera-Romero, Alejandro Jose; Boualem, Adnane; Garrido-Garrido, M Dolores; BENDAHMANE-, ABDELHAFID; Jamilena-Quesada, Manuel. *Molecular and functional characterization of CpACS27A gene reveals its involvement in monoecy instability and other associated traits in squash (Cucurbita pepo L.)*. **Planta**, 239(6), PP. 1201-1215.

Palma-Martín, Francisco; López-Gómez, Miguel; Tejera-García, Noel Amaurys; Lluch-Pla, Carmen. *Involvement of abscisic acid in the response of Medicago sativa plants in symbiosis with Sinorhizobium meliloti to salinity*. **Plant science**, pp.16-24.

García-Garijo, Amaranta; Tejera-García, Noel Amaurys; Lluch-Pla, Carmen; Palma-Martín, Francisco. *Metabolic responses in root nodules of Phaseolus vulgaris and Vicia sativa exposed to the imazamox herbicide*. **Pesticide Biochemistry and Physiology**, 111, pp. 19-23.

Palma-Martín, Francisco; Carvajal-Moreno, Fátima; Jamilena-Quesada, Manuel; Garrido-Garrido, M Dolores. *Contribution of polyamines and other*

*related metabolites to the maintenance of zucchini fruit quality during cold storage.* **Plant Physiology and Biochemistry**, 82, pp. 161-171

Martínez-Martínez, Cecilia; Manzano-Medina, Susana; Megías-, Zoraida M<sup>a</sup>; Garrido-Garrido, M Dolores; PICÓ-SIRVENT, MARÍA BELÉN; Jamilena-Quesada, Manuel. *Sources of parthenocarpy for Zucchini breeding: relationship with ethylene production and sensitivity.* **Euphytica (Wageningen)**, 200(3), pp. 349-362

Megías-, Zoraida M<sup>a</sup>; Martínez-Martínez, Cecilia; Manzano-Medina, Susana; Barrera-Romero, Alejandro Jose; Rosales-López, Raquel; Valenzuela-Manjon-Cabeza, Juan Luis; Garrido-Garrido, M Dolores; Jamilena-Quesada, Manuel. *Cold-induced ethylene in relation to chilling injury and chilling sensitivity in the non-climacteric fruit of zucchini (Cucurbita pepo L.)* **LWT-Food Science and Technology**, 57(1), pp. 194-199.

Rosales-López, Raquel. *The crucial role of U- and K-segments in the in vitro functionality of Vitis vinifera dehydrin DHN1a.* **Phytochemistry**, 108, pp. 17-25.

Carvajal-Moreno, Fátima; Garrido-Garrido, M Dolores; Jamilena-Quesada, Manuel; Rosales-López, Raquel. *Cloning and characterisation of a putative pollen-specific polygalacturonase gene (CpPG1) differentially regulated during pollen development in zucchini (Cucurbita pepo L.).* **Plant Biology**, 16(2), pp. 457-466.

Palma-Martín, Francisco; Carvajal-Moreno, Fátima; Lluch-Pla, Carmen; Jamilena-Quesada, Manuel; Garrido-Garrido, M Dolores. *Changes in carbohydrate content in zucchini fruit (Cucurbita pepo L.) under low temperature stress.* **Plant Science**, 217, pp. 78-86.

## **2013**

Rosales-López, Raquel. *Molecular analysis of the improvement in rachis quality by high CO<sub>2</sub> levels in table grapes stored at low temperature.* **Postharvest Biology and Technology**, 77, 50-58.

Traverso JA; Pulido-Regadera, Amada; Rodríguez-García, María Isabel; Alché-Ramírez, Juan De Dios. *Thiol-based redox regulation in sexual plant reproduction: new insights and perspectives.* **Frontiers in Plant Science**, 4(465), pp.1-14.

Manzano-Medina, Susana; Martínez-Martínez, Cecilia; Megías-, Zoraida M<sup>a</sup>; Garrido-Garrido, M Dolores; Jamilena-Quesada, Manuel. *Involvement of ethylene biosynthesis and signalling in the transition from male to female flowering in the monoecious Cucurbita pepo*. **Journal of Plant Growth Regulation**, 32, pp. 789-798.

Blanch M, Rosales R, Goya L, Sánchez- Ballesta MT, Escribano MI, Merodio C. *ADP-malic enzyme and glutathione reductase contribute to glutathione regeneration in Fragaria vesca fruit treated with protective high CO<sub>2</sub> concentrations*. **Postharvest Biology and Technology**, 86, pp. 431-436.

Palma-Martín, Francisco; Tejera-García, Noel Amaurys; Lluch-Pla, Carmen. *Nodule carbohydrate metabolism and polyols involvement in the response of Medicago sativa to salt stress*. **Environmental And Experimental Botany**, 85, pp. 43-49.

Martínez-Martínez, Cecilia; Manzano-Medina, Susana; Megías-, Zoraida M<sup>a</sup>; Garrido-Garrido, M Dolores; PICÓ-SIRVENT, MARÍA BELÉN; Jamilena-Quesada, Manuel. *Involvement of ethylene biosynthesis and signalling in fruit set and early fruit development in zucchini squash (Cucurbita pepo L.)*.

Palma-Martín, Francisco; López-Gómez, Miguel; Tejera-García, Noel Amaurys; Lluch-Pla, Carmen. *Salicylic acid improves the salinity tolerance of Medicago sativa in symbiosis with Sinorhizobium meliloti by preventing nitrogen fixation inhibition*. **Plant Science**, 208, pp. 75-82.

García-Garijo, Amaranta; Palma-Martín, Francisco; Lluch-Pla, Carmen; Tejera-García, Noel Amaurys. *Physiological and biochemical responses of common vetch to the imazamox accumulation*. **Plant Physiology and Biochemistry**, 73, pp. 221-225.

## **2012**

García-Garijo, Amaranta; Palma-Martín, Francisco; Iribarne-Martinez, Carmen; Lluch-Pla, Carmen; Tejera-García, Noel Amaurys. *Alterations induced by imazamox on acetohydroxyacid synthase activity of common bean (Phaseolus vulgaris) depend on leaf position*. **Pesticide Biochemistry and Physiology**, 104, pp. 72-76.

Rosales-López, Raquel. *Unraveling the roles of CBF1, CBF4 and dehydrin 1 genes in the response of table grapes to high CO<sub>2</sub> levels and low temperature*.

**Journal of Plant Physiology**, 169, pp. 744-748.

## **2011**

Rosales-López, Raquel; Burns-, Jacqueline K. *Phytohormone changes and carbohydrate status in sweet orange fruit from huanglongbing-infected trees.* **Journal of Plant Growth Regulation.**

Carvajal-Moreno, Fátima; Martínez-Martínez, Cecilia; Jamilena-Quesada, Manuel; Garrido-Garrido, M Dolores. *Differential response of zucchini varieties to low storage temperature.* **Scientia Horticulturae**, 130(1), pp.90-96.

Palma-Martín, Francisco; Tejera-García, Noel Amaury; Herrera-Cervera, Jose Antonio. *Effect of salinity on nodulation, nitrogen fixation and growth of common bean (*Phaseolus vulgaris*) inoculated with rhizobial strains isolated from the Haouz region of Morocco.* **Symbiosis**, 55, pp. 69-75.

Manzano-Medina, Susana; Martínez-Martínez, Cecilia; Megías-, Zoraida M<sup>a</sup>; Gomez-Jimenez De Cisneros, Pedro; Garrido-Garrido, M Dolores; Jamilena-Quesada, Manuel. *The role of ethylene and brassinosteroids in the control of sex expression and flower development in cucurbita pepo.* **Plant Growth Regulation**, 65(2), pp. 213-221.

## **2010**

Pulido-Regadera, Amada; Laufs-,Patrick. *Coordination of developmental processes by small rnas during leaf development.* **Journal of Experimental Botany**, pp. 1-15.

Manzano-Medina, Susana; Martínez-Martínez, Cecilia; Gomez-Jimenez De Cisneros, Pedro; Garrido-Garrido, M Dolores; Jamilena-Quesada, Manuel. *Cloning and characterisation of two ctr1-like genes in cucurbita pepo: regulation of their expression during male and female flower development.* **Sexual Plant Reproduction**, 23(4), pp. 301-313

Manzano-Medina, Susana; Martínez-Martínez, Cecilia; Garrido-Garrido, M Dolores; Gomez-Jimenez De Cisneros, Pedro; Jamilena-Quesada, Manuel. *A major gene conferring reduced ethylene sensitivity and maleness in cucurbita pepo.* **Journal of Plant Growth Regulation**, 29, pp. 73-80.

## **2009**

Palma-Martín, Francisco; Lluch-Pla, Carmen; Iribarne-Martinez, Carmen; Garcia-Garrido, Jose Manuel; Tejera-García, Noel Amaurys. *Combined effect of salicylic acid and salinity on some antioxidant activities, oxidative stress and metabolites accumulation in phaseolus vulgaris*. **Plant Growth Regulation**, 58, pp. 307-316.

Bedhomme-,M; Mathieu-,C; Pulido-Regadera, Amada; Henry & Bergounioux-,Y. *Arabidopsis monomeric g-proteins, markers of early and late events in cell differentiation*. **The International Journal of Developmental Biology**, pp. 177-185.

Garrido-Garrido, M Dolores; Rosales-López, Raquel; Gomez-Jimenez De Cisneros, Pedro; Jamilena-Quesada, Manuel. *Hormonal control of floral abscission in zucchini squash (Cucurbita pepo)*. **Plant Growth Regulation**, 58(1), pp. 1-14.

Garrido-Garrido, M Dolores. *A major gene conferring reduced ethylene sensitivity and maleness in cucurbita pepo*. **Journal of Plant Growth Regulation**, pp.1-10.

Pulido-Regadera, Amada; Bakos-,F; Devic-,M; Barnabas-,Beata; Olmedilla-Arnal, Adela. *Hvpg1 and eca1: two genes activated transcriptionally in the transition of barley microspore from the gametophytic to the embryogenic pathway*. **Plant Cell Reports**, pp.551-559.

## **2008**

Garrido-Garrido, M Dolores; Ramos-Clavero, Jose M; Rosales-López, Raquel; Sabouni-, Ibrahim. *Comparing the benefits between pesticides and ethylene treatments in reducing olive moth population numbers and damage*. **International Journal of Pest Management**, 54(4), pp. 327-331.

Ramos-Clavero, Pedro; Rosales-López, Raquel; Sabouni-, Ibrahim; Garrido-Garrido, M Dolores; Ramos-Clavero, Jose M. *Crop losses due to olive moth mediated by ethylene*. **Pest Management Science**, 64(7), pp. 720-724.

Manzano-Medina, Susana; Ávalos-,Eugenio; Dominguez-,Victor Jesús; Garrido-Garrido, M Dolores; Gomez-Jimenez De Cisneros, Pedro; Jamilena-Quesada, Manuel. *Un gen recesivo que confiere insensibilidad al etileno y androecia en*

*cucúrbita pepo*. **Actas de Horticultura de la Sociedad Española de Ciencias Hortícolas**, 51, pp. 199-200.

Bein-,T; Pulido-Regadera, Amada; Vialette-,A; Nikovics-,K; Morin-,H; Hay-,A; Johansen-,le; Tsiantis-,M; LaufS-,B. *A conserved molecular framework for compound leaf development*. **Science**, pp. 1835-1839.

Payán-Amate, Maria Del Carmen; Peñaranda-Ruíz, Ascension; Manzano-Medina, Susana; Garrido-Garrido, M. Dolores; Jamilena-Quesada, Manuel; Gomez-Jimenez De Cisneros, Pedro. *Estadios previos de la formación del fruto de calabacín muestran un patrón específico de expresión de los genes receptores de etileno cup-etr1 y cup-ers1*. **Actas de Horticultura de la Sociedad Española de Ciencias Hortícolas**, pp. 171-172.

Garrido-Garrido, M Dolores; Ramos-Clavero, Jose M; Rosales-López, Raquel; Sabouni-, Ibrahim. *The use of ethylene diffusers is comparable to treatments with sprayed ethylene to reduce the damage caused by the olive moth (prays oleae bern.)*. **Journal of Pest Science**, PP. 1-5.