

DOCTORADO EN CIENCIAS AGROALIMENTARIAS

**Juan-Eugenio Álvaro Martínez-Carrasco**

**Publicaciones (2015- presente)**

1. Fabrikov D, Guil-Guerrero JL, González Fernández MJ, Rodríguez-García I, Gómez-Mercado F, Urrestarazu M, Lao MT, Rincón-Cervera MA, **Alvaro JE**. 2019. Borage oil: Tocopherols, sterols and squalene in farmed and endemic-wild Borago species. *Journal of Food Composition and Analysis*: 83: 103299. Q2.
2. Padilla-Medina JA, Contreras-Medina LM, Urrestarazu M, Millan-Almaraz JR, **Alvaro JE**. 2019. Sensors in Precision Agriculture for the Monitoring of Plant Development and Improvement of Food Production. *Journal of Sensors* 219: 7138720. Q2.
3. Pedreschi R, Uarrota V, Fuentealba C, **Alvaro JE**, Olmedo P, Defilippi B, Meneses C, Campos-Vargas R. 2019. Primary metabolism in avocado fruit. *Frontiers in Plant Sciences* 10: 795. Q1.
4. Urrestarazu M, Gallegos-Cedillo V, Ferrón Carrillo F, Guil-Guerrero JL, Lao M, **Alvaro JE**. 2019. Effects of the electrical conductivity of a soilless culture system on gamma linolenic acid levels in borage seed oil. *Plos One* 14: e0207106. Q1.
5. Rodríguez F, Pedreschi R, Fuentealba C, de Kartzow A, Olaeta JA, **Alvaro JE**. 2019. The increase in electrical conductivity of nutrient solution enhances compositional and sensory properties of tomato fruit cv. Patrón. *Scientia Horticulturae* 244: 388-398. Q1.
6. Gallegos V, **Álvaro JE**, Capatos T, Hachmann L, Carrasco G, Urrestarazu M, . 2018. Effect of pH and silicon in the fertigation solution on vegetative growth of blueberry plants. *Hortscience* 53: 1423-1428. Q2.
7. Nájera C, Guil-Guerrero JL, Enríquez LJ, **Álvaro JE**, Urrestarazu M. 2018. LED-enhanced dietary and organoleptic qualities in postharvest tomato fruit. *Postharvest Biology & Technology* 145: 151-156. Q1.
8. Severino C, Elizondo R, **Alvaro JE**, Oyanedel E. 2017. Planting density and training in grafted indeterminate tomato plants grown under plastic cover. *Horticultura Brasileira* 35: 542-548. Q3.
9. Urrestarazu M, Carrasco G, **Álvaro JE**. 2017. Design of a Modular Vegetative Unit and Fertigation Management for Noise Abatement Walls in a Semiarid Climate. *Journal of Irrigation and Drainage Engineering* 143: 0-5. Q3.
10. Moya C, Oyanedel E, Verdugo G, Flores F, Urrestarazu M, **Álvaro JE**. 2017. Increased electrical conductivity in nutrient solution management enhances dietary and organoleptic qualities in soilless culture tomato. *Hortscience* 52: 868-872. Q2.

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11. Moya H, Verdejo J, Yáñez C, **Álvaro JE**, Sauvé S, Neaman A. 2017. Nitrification and nitrogen mineralization in agricultural soils contaminated by copper mining activities in Central Chile. *Journal of Soil Science and Plant Nutrition* 17: 205-213. Q2.
12. Urrestarazu M, Gallegos V, **Álvaro JE**. 2017. The Use of Thermography Images in the Description of the Humidification Bulb in Soilless Culture. *Communications in Soil Science and Plant Analysis* 48: 1595-1602. Q4.
13. Gallegos-Cedillo V, Urrestarazu M, **Álvaro JE**. 2016. Influence of salinity on transport of Nitrates and Potassium by means of the xylem sap content between roots and shoots in young tomato plants. *Journal of Soil Science and Plant Nutrition* 16: 991-998. Q2.
14. **Álvaro JE**, Lao MT, Urrestarazu M, Baghour M, Abdelmajid M. 2016. Effect of nutrient solution salinity and ionic concentration on parsley (*Petroselinum crispum* Mill.) essential oil yield and content. *Journal of Plant Nutrition* 39: 1057-1062. Q4.
15. Urrestarazu M, Morales I, Malfa T, Checa R, Wamser A, **Álvaro JE**. 2015. Effects of fertigation duration on the pollution, water consumption, and productivity of soilless vegetable cultures. *Hortscience*, 50: 819-825. Q2.
16. Wamser A, Morales I, **Álvaro JE**, Urrestarazu M. 2015. Effect of the Drip Flow Rate with Multiple Manifolds on the Homogeneity of the Delivered Volume. *Journal of Irrigation and Drainage Engineering* 141: 0-5. Q3.
17. Azkorra Z, Pérez G, Coma J, Cabeza L, Burés S, **Álvaro JE**, Erkoreka A, Urrestarazu M. 2015. Evaluation of green walls as a passive acoustic insulation system for buildings. *Applied Acoustics* 89: 46-56. Q2.
18. Pozo J, Urrestarazu M, Morales I, Sánchez J, Santos M, Dianez F, **Álvaro JE**. 2015. Effects of silicon in the nutrient solution for three horticultural plant families on the vegetative growth, cuticle, and protection against *Botrytis cinerea*. *Hortscience* 50: 1447-1452. Q2.

### Proyectos con financiamiento externo (2015-presente)

1. Regulation of firmness loss in raspberry fruit: role of annexin and calmodulin and their regulation by abscisic acid, ethylene, and calcium.  
Financiamiento: Fondecyt Regular N°1201662, Conicyt  
Rol: Co-investigador  
Duración: 2019-2022  
Año adjudicación: 2019

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2. Novel application of LED lighting in growing system for leaf horticultural crops.  
Financiamiento: Redes internacionales entre centros de investigación, PCI, Conicyt  
Rol: Co-investigador  
Duración: 2019-2020  
Año de adjudicación: 2019
3. Red de investigación Perú-Chile: compartiendo experiencias y desafíos relacionados a la biotecnología vegetal, industrial & bioprocesos.,  
Financiamiento: Programa de Cooperación Internacional PCI, N° redbio0001, Conicyt  
Duración: 2019-2020  
Año de adjudicación: 2019
4. Entendiendo la complejidad metabólica y nutricional de frutos en postcosecha: una perspectiva integradora desde la biología de sistemas.  
Financiamiento: Programa de Cooperación Internacional PCI, N° RED1170422, Conicyt.  
Rol: Co-investigador  
Duración: 2017-2019  
Año de adjudicación: 2017
5. Modelo de producción sostenible de nuevas especies de borraja para la obtención de aceite funcionales ricos en gamma linolénicos (MOSOSBO).  
Financiamiento: Ministerio de Economía y Competitividad (España)  
Rol: Co-investigador  
Duración: 2015-2018  
Año de adjudicación: 2015