

DOCTORADO EN CIENCIAS AGROALIMENTARIAS

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Publicaciones (2018- Presente)

1. Mondaca, P., Valenzuela, P., Quiroz, W., **Valdenegro, M.**, Abades, S., Celis-Diez, J.L. 2022. Environmental conditions and plant physiology modulate Cu phytotoxicity in field-contaminated soils. *Ecotoxicology & Environmental Safety* 246: 114179. Q1.
2. Mondaca, P., Valenzuela, P., Roldán, N., Quiroz, W., **Valdenegro, M.**, Celis-Diez, J.L. 2022. Remediation of agricultural soils with long-term contamination of arsenic and copper in two Chilean Mediterranean areas. *Agronomy* 12(1): 221. Q1.
3. **Valdenegro, M.**, Fuentes, L., Bernales, M., Huidobro, C., Monsalve, L. Hernández, I., Schelle, M., Simpson, R. 2022. Antioxidant and fatty acid changes in pomegranate peel with induced chilling injury and browning by ethylene during long storage times. *Frontiers in Plant Science*, 13: 771094. Q1.
4. Monsalve, L., Bernales, M., Ayala-Raso, A., Álvarez, F., **Valdenegro, M.**, Alvaro, J.E., Figueroa, C.R., Defilippi, B.G., Fuentes, L. 2022. Relationship between endogenous ethylene production and firmness during the ripening and cold storage of raspberry (*Rubus idaeus* 'heritage') fruit. *Horticulturae*, 8: 262. Q1.
5. **Valdenegro, M.**, Bernales, M., Knox, M., Vinet, R., Caballero, E., Ayala-Raso, A., Kucerová, D., Kumar, R., Viktorová, J., Rum, T., Figueroa, C., Fuentes, L. 2021. Characterization of fruit development, antioxidant capacity, and potential vasoprotective action of peumo (*Cryptocarya alba*), a native fruit of Chile. *Antioxidants*, 10: 1997. Q1.
6. Lindh, V., Uarrota, V., Zulueta, C., Alvaro, J.E., **Valdenegro, M.**, Cuneo, I.F., Mery, D., Pedreschi, R. 2021. Image Analysis Reveals That Lenticel Damage Does Not Result in Black Spot Development but Enhances Dehydration in *Persea americana* Mill. cv. Hass during Prolonged Storage. *Agronomy-Basel*, 11: 9. Q1.
7. Viktorová, J., Kumar, R., Rehorová, K., Hoang, L., Ruml, T., Figueroa, C.R., **Valdenegro, M.**, Fuentes, L. 2020. Antimicrobial Activity of Extracts of Two Native Fruits of Chile: Arrayan (*Luma apiculata*) and Peumo (*Cryptocarya alba*). *Antibiotics-Basel*, 9: 444. Q1.
8. Fuentes, L., Figueroa, C., **Valdenegro, M.**, Vinet, R. 2019. Review Patagonian Berries: Healthy Potential and the Path to Becoming Functional Foods. *Foods*, 8: 289. Q1.
9. Fuentes, L., Figueroa, C., **Valdenegro, M.** 2019. Recent Advances in Hormonal Regulation and Cross-Talk during Non-Climacteric Fruit Development and Ripening. *Horticulturae* 5:45. Q1.
10. Bernales, M., Monsalve, L., Ayala-Raso, A., **Valdenegro, M.**, Martínez, J.P., Travisany, D., Defilippi, B., González-Agüero, M., Cherian, S., Fuentes, L. 2019. Expression of two indole-3-

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acetic acid (IAA)-amido synthetase (GH3) genes during fruit development of raspberry (*Rubus idaeus* Heritage). *Scientia Horticulturae*, 246: 168-175. Q1.

11. Vega, O., Carvajal, L., Rodríguez, F., Marín, M., Ramírez, C., Simpson, R., **Valdenegro, M.** 2018. Effect of thermal pretreatments and cooking characteristics on physicochemical, rheological, and sensorial properties of food products based on cassava (*Manihot esculenta* Crantz). *Journal of Food Process Engineering* 41:e12612. Q3.
12. **Valdenegro, M.**, Huidobro, C., Monsalve, L., Bernales, M., Fuentes, L., Simpson, R. 2018. Effects of ethrel, 1-MCP and modified atmosphere packaging on the quality of 'Wonderful' pomegranates during cold storage. *Journal of the Science of Food and Agriculture* 98, 4854-4865. Q1.

Proyectos con financiamiento externo últimos 5 años (adjudicado y/o ejecutado)

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.
Rol: Co-investigador
Duración: 2020-2023
Año adjudicación: 2019
2. Control y disminución de metales en hortalizas cultivadas en la Región de Valparaíso a través del uso de enmiendas. "I Concurso IDeA en Dos Etapas Temático en Inocuidad y Calidad Alimentaria 2017".
Financiamiento: Fondo de Fomento al Desarrollo Científico y Tecnológico (Fondef) N° ID17AL0056, Conicyt.
Rol: Director alterno
Duración: 2018-2020
Año de adjudicación: 2017