

DOCTORADO EN CIENCIAS AGROALIMENTARIAS

Mónica Valdenegro Espinoza

Publicaciones (2019 – presente)

1. Álvarez, F., Moya, M., Rivera-Mora, C., Zúñiga, P., Jara-Cornejo, K., Muñoz, P., Ayala-Raso, A., Munné-Bosch, S., Figueroa, C. R., Figueroa, N., **Valdenegro, M.**, Álvaro, J., Schwab, W., Defilippi, B., Fuentes, L. 2023. Abscisic Acid Synthesis and Signaling during the Ripening of Raspberry (*Rubus idaeus* ‘Heritage’) Fruit. *Plants*, 12(9): 1882. Q1.
2. Morales-Quintana, L., Monsalve, L., Bernales, M., Figueroa, C.R., **Valdenegro, M.**, Olivares, A., Álvarez, F., Cherian, S., Fuentes, L. 2023. Molecular dynamics simulation of the interaction of a raspberry polygalacturonase (RiPG) with a PG inhibiting protein (RiPGIP) isolated from ripening raspberry (*Rubus idaeus* cv. Heritage) fruit as a model to understand proteins interaction during fruit softening. *Journal of Molecular Graphics and Modelling*, 122: 108502. Q2.
3. 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.
4. 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.
5. **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.
6. 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.
7. **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.
8. 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.

DOCTORADO EN CIENCIAS AGROALIMENTARIAS

9. 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.
10. 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.
11. 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.
12. 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-acetic acid (IAA)-amido synthetase (GH3) genes during fruit development of raspberry (*Rubus idaeus* Heritage). *Scientia Horticulturae*, 246: 168-175. 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