

MÓNICA CASTRO VALDEBENITO

*Escuela de Agronomía, Pontificia Universidad Católica de Valparaíso,
Calle San Francisco s/n, La Palma, Quillota, Chile*

I. PUBLICACIONES (2015 – presente)

Publicaciones en revistas indexadas (ISI)

1. Burnham, E., Zabel, S., Navarro-Villarroel, C., Ermakov, D. S., **Castro, M.**, Neaman, A., & Otto, S. (2023). Enhancing farmers' soil conservation behavior: Beyond soil science knowledge. **Geoderma**, 437, 116583. <https://doi.org/10.1016/j.geoderma.2023.116583>
2. Guerra, F., Badilla, L., Cautín, R., & **Castro, M.** (2023). In Vitro Propagation of *Peumus boldus* Mol, a Woody Medicinal Plant Endemic to the Sclerophyllous Forest of Central Chile. **Horticulturae**, 9(9), 1032. <https://doi.org/10.3390/horticulturae9091032>
3. Carmach, C., **Castro, M.**, Peñaloza, P., Guzmán, L., Marchant, M. J., Valdebenito, S., & Kopaitic, I. (2023). Positive Effect of Green Photo-Selective Filter on Graft Union Formation in Tomatoes. **Plants**, 12(19), 3402. <https://doi.org/10.3390/plants12193402>
4. Neaman, A., Montero, E., Pensini, P., Burnham, E., **Castro, M.**, Ermakov, D. S., & Navarro-Villarroel, C. (2023). Unleashing the Power of Connection: How Adolescents' Prosocial Propensity Drives Ecological and Altruistic Behaviours. **Sustainability**, 15(10), 8070. <https://doi.org/10.3390/su15108070>
5. Balada, C., Díaz, V., **Castro, M.**, Echeverría-Bugueño, M., Marchant, M. J., & Guzmán, L. (2022). Chemistry and Bioactivity of *Microsorium scolopendria* (Polypodiaceae): Antioxidant Effects on an Epithelial Damage Model. **Molecules**, 27(17), 5467. <https://doi.org/10.3390/molecules27175467>
6. Marchant, M. J., Molina, P., Montecinos, M., Guzmán, L., Balada, C., & **Castro, M.** (2022). Effects of LED Light Spectra on the Development, Phytochemical Profile, and Antioxidant Activity of *Curcuma longa* from Easter Island. **Plants**, 11(20), 2701. <https://doi.org/10.3390/plants11202701>

7. Guerra, F., Badilla, L., Cautin, R., & **Castro, M.** (2022). Micropropagation of *Citronella mucronata* D. Don, a Vulnerable Chilean Endemic Tree Species. ***Plants***, 11(18), 2425. <https://doi.org/10.3390/plants11182425>
8. Guerra, F., Peñaloza, P., Vidal, A., Cautín, R., & **Castro, M.** (2022). Seed Maturity and Its In Vitro Initiation of Chilean Endemic Geophyte *Alstroemeria pelegrina* L. ***Horticulturae***, 8(5), 464. <https://doi.org/10.3390/horticulturae8050464>
9. Neaman A, Pensini P, Zabel S, Otto S, Ermakov D, Dovletyarova E, Burnham E, **Castro M**, Navarro-Villaruel C (2022) The Prosocial Driver of Ecological Behavior: The Need for an Integrated Approach to Prosocial and Environmental Education. ***Sustainability (Switzerland)*** 14(7); doi: 10.3390/su14074202
10. Neaman A, Díaz-Siefer P, Burnham E, **Castro M**, Zabel S, Dovletyarova E, Navarro-Villaruel C, Otto S (2021). Catholic religious identity, prosocial and pro-environmental behaviors, and connectedness to nature in Chile. ***GAIA*** 30(1); doi: 10.14512/GAIA.30.1.9
11. Balada C, **Castro M**, Fassio C, Zamora A, Marchant M, Acevedo W, Guzmán L (2021). Genetic diversity and biological activity of *Curcuma longa* ecotypes from Rapa Nui using molecular markers. ***Saudi Journal of Biological Sciences*** 28(1); doi: 10.1016/j.sjbs.2020.10.062
12. Marchant M, Molina P, Montecinos M, Guzmán L, Balada C, Fassio C, **Castro M** (2021). In vitro propagation of easter island curcuma longa from rhizome explants using temporary immersion system. ***Agronomy***, 11(11); doi: 10.3390/agronomy11112121
13. Fassio C, Cautin R, Perez-Donoso A, **Castro M**, Bonomelli C (2020). Análisis comparativo del orden de ramificación y la anatomía de raíces de paltos (*Persea americana* Mill.) propagados en forma clonal y por semilla. ***International Journal of Agriculture and Natural Resources*** 47(2); doi: 10.7764/ijanr.v47i2.2240
14. Cristina G, Camelin E, Ottone C, Fraterrigo S, Jorquera L, **Castro M**, Fino D, Schiappacasse M, Tommasi T (2020). Recovery of humic acids from anaerobic sewage sludge: Extraction, characterization and encapsulation in alginate beads. ***International Journal of Biological Macromolecules*** 164; doi: 10.1016/j.ijbiomac.2020.07.097
15. Guajardo J, Saa S, Riquelme N, Browne G, Youlton C, **Castro M**, Besoain X (2019) Characterization of oomycete species associated with root and crown rot of english walnut in Chile. ***Plant Disease*** 103(4); dpo: 10.1094/PDIS-07-18-1160-RE

16. Guajardo J, Saa S, Riquelme N, Browne G, Youlton C, **M Castro** & Besoain X (2018) Characterization of Oomycete Species Associated With Root and Crown Rot of English Walnut in Chile. *Plant Disease* 103; doi: 10.1094/PDIS-07-18-1160-RE.
17. Valdebenito D, Farías D, Oyanedel E, **M Castro**, Lampinen B, Tixier A & Saa S (2017) The morphology of a Walnut (*Juglans regia* L.) shoot is affected by its position in the canopy and correlated to the number and size of its fruits. *Scientia Horticulturae* 220, 303-309; doi: 10.1016/j.scienta.2017.03.046.
18. Gálvez-Cendegui L, Peñaloza P, & Oyanedel E & **M Castro** (2017) Storage, size and vigor of 'Esther' avocado seeds (*Persea americana* Mill.). *Ciencia e investigación agraria* 44, 1-6; doi: 10.7764/rcia.v44i1.1641.
19. Bugueño F, N Livellara, F Varas, P Undurraga, **M Castro** & E Salgado (2016) Responses of young *Punica granatum* plants under four different water regimes. *Ciencia e Investigación Agraria* 43: 49-56; doi: 10.4067/S0718-16202016000100005.
20. Fassio C, R Cautin, A Perez-Donoso, C Bonomelli & **M Castro** (2016) Propagation techniques and grafting modify the morphological traits of roots and biomass allocation in avocado trees. *HortTechnology* 26: 63 -69.
21. Galvez-Cendegui L, P Peñaloza, E Oyanedel & **M Castro** (2016) Characterization of avocado nurse seed size and seedling development in CV. Esther. *Revista Fitotecnia Mexicana* 39: 79-85.
22. Bugueño F, N Livellara, F Varas, P Undurraga, **M Castro** & E Salgado (2016) Responses of young *Punica granatum* plants under four different water regimes. *Ciencia e Investigación Agraria* 43:49-56; doi: 10.4067/S0718-16202016000100005.
23. Estay C, R Cautín, A Neaman & **M Castro** (2016) Clonal propagation of the avocado: effects of the rooting step on graft union formation and development. *Ciencia e Investigación Agraria* 43: doi: 10.4067/S0718-16202016000200006.
24. **Castro M**, C Fassio, R Cautín & J Ampuero (2015) UCV7, portainjerto de aguacate tolerante a la salinidad. *Revista Fitotecnia Mexicana* 38: 85-92

II. EXPERIENCIA EN PROYECTOS DE INVESTIGACION (2015 – presente)

Proyectos con fondos concursables

2015 – (2017) IR FONDEF ID15I10031. Programa de propagación masiva para el desarrollo sustentable de especies medicinales en Isla de Pascua.