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I. PUBLICACIONES (2015 – presente)

Publicaciones en revistas indexadas (ISI)

1. Neaman, A., Zakharikhina, L. V., Navarro-Villarroel, C., **Peñaloza, P.**, & Dovletyarova, E. A. (2022). Choose Your Procedure Wisely: Removal of Outliers is Inappropriate for Estimating Background Concentrations of Trace Elements in Soil. *Environmental Toxicology And Chemistry*, 42(3), 555-557. <https://doi.org/10.1002/etc.5550>
2. 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, 3402. <https://doi.org/10.3390/plants12193402>
3. Santa-Cruz, J., Robinson, B., Krutyakov, Y. A., Shapoval, O. A., **Peñaloza, P.**, Yáñez, C., & Neaman, A. (2022). An Assessment of the Feasibility of Phytoextraction for the Stripping of Bioavailable Metals from Contaminated Soils. *Environmental Toxicology And Chemistry*, 42(3), 558-565. <https://doi.org/10.1002/etc.5554>
4. Guerra, F.; **Peñaloza, P.**; Vidal, A.; Cautín, R.; Castro, M (2022). Seed Maturity and Its In Vitro Initiation of Chilean Endemic Geophyte *Alstroemeriapelegrina* L. *Horticulturae*, 8, 464. <https://doi.org/10.3390/horticulturae8050464>
5. González-Miranda I, Vidal K, **Peñaloza P** (2021). Comparing nitrate leaching in lettuce crops cultivated under agroecological, transition, and conventional agricultural management in central Chile. *Chilean Journal of Agricultural Research* 81(2); doi: 10.4067/S0718-58392021000200210
6. Soto F, **Peñaloza P**, Oyanedel E, Schiappacasse F, Durán O, Vidal A (2021). Germinación y desarrollo de plántulas en m₁ de dos accesiones de

selliera radicans cav. Sometidas a radiación gamma. **Revista de la Facultad de Ciencias Agrarias** 53(2); doi: 10.48162/rev.39.037

7. Santa-Cruz J, Vasenev I, Gaete H, **Peñaloza P**, Krutyakov Y, Neaman A (2021). Metal Ecotoxicity Studies with Artificially Contaminated versus Anthropogenically Contaminated Soils: Literature Review, Methodological Pitfalls and Research Priorities. **Russian Journal of Ecology** 52(6); doi: 10.1134/S1067413621060126
8. Cruz J, González D, Valdebenito S, **Peñaloza P** (2021). Salvia guaranitica A. St.-Hil. ex Benth. (Lamiaceae): Una nueva especie para la flora exótica de Chile. **Gayana - Botanica** 78(1); doi: 10.4067/S0717-66432021000100095
9. Santa-Cruz J, **Peñaloza P**, Korneykova M, Neaman A (2021). Thresholds of metal and metalloid toxicity in field-collected anthropogenically contaminated soils: A review. **Geography, Environment, Sustainability** 14(2); doi: 10.24057/2071-9388-2021-023
10. Stuckey J, Neaman A, Verdejo J, Navarro-Villarreal C, **Peñaloza P**, Dovletyarova E (2021). Zinc Alleviates Copper Toxicity to Lettuce and Oat in Copper-Contaminated **Soils. Journal of Soil Science and Plant Nutrition**; doi: 10.1007/s42729-021-00435-x
11. Pezo C, Valdebenito S, Flores M, Oyanedel E, Vidal K, Neaman A, **Peñaloza P** (2020). Impact of Mother Plant Saline Stress on the Agronomical Quality of Pepper Seeds. **Journal of Soil Science and Plant Nutrition** 20(4); doi: 10.1007/s42729-020-00325-8
12. Prudnikova EV, Neaman A, Terekhova VA, Karpukhin M, Vorobeichik E, Smorkalov I, Dovletyarova E, Navarro-Villarreal C, Ginocchio R, **Peñaloza P** (2020). Root Elongation Method for the Quality Assessment of Metal-Polluted Soils: Whole Soil or Soil-Water Extract? **Journal of Soil Science and Plant Nutrition** 20(4); doi:10.1007/s42729-020-00295-x
13. De la Cuadra C, Vidal A, **P Peñaloza**, Mansur L & Huenchuleo C (2019) Effect of temperature and scarification on seed germination of *Conanthera spp.* (Tecophilaeaceae). **Chilean journal of agricultural research**, 79, 323-329; doi: 10.4067/S0718-58392019000200323.
14. **Peñaloza P**, Toloza P (2018). Boron increases pollen quality, pollination, and fertility of different genetic lines of pepper. **Journal of Plant Nutrition** 41(8); doi: 10.1080/01904167.2018.1431666
15. de la Cuadra C, Vidal AK, **Peñaloza P**, Mansur L, Huenchuleo,

C (2018). Germination temperature and the effect of storage time on the seed viability of *Zephyra elegans* (Tecophilaeaceae). *HortScience* 53(6); doi: 10.21273/HORTSCI12830-17

16. Huenchuleo C, Parada V, Vidal AK, **Peñaloza P** (2017). Actitudes y preferencias hacia la conservación de semillas tradicionales: El caso zanahoria de la comunidad indígena de San Francisco de Chiuchiu, Norte de Chile. *Interciencia* 42(12)
17. Gálvez-Cendegui L, **Peñaloza P**, Oyanedel E, Castro M (2017). Almacenamiento, tamaño y vigor de semilla nodriza de palto (*Persea americana* mill.) cv. 'esther'. *Ciencia e Investigación Agraria* 44(1); doi: 10.7764/rcia.v44i1.1641
18. Gratacós E, **Peñaloza P**, Bravo K (2017). Productive instability of sweet cherry orchards: Microscopic methods for the study of its causes. En M. J. Serradilla, Bernalte-García, & López-Corrales (Eds.), *7th International Cherry Symposium*; doi: 10.17660/ActaHortic.2017.1161.61
19. 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.
20. **Peñaloza P** & J Durán (2015) Association between biometric characteristics of tomato seeds and seedling growth and development. *Electronic Journal of Biotechnology* 18: 267-27.

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

Proyectos con fondos concursables

2024 - 2027 **Investigador. Organismo Internacional de Energía Atómica (OIEA) de Naciones Unidas.** Strengthening the National Cooperation Network in the Use of Nuclear Techniques in Plant Breeding Programmes.

2021 - 2023 **Investigador. Organismo Internacional de Energía Atómica (OIEA) de Naciones Unidas.** Use of irradiation and isotopic techniques to improve native and agricultural plant genetics.

2020 - 2023 **CI. Fondecyt.** Potential alleviation of copper toxicity in contaminated agricultural soils in central Chile by calcium, magnesium, and zinc amendments.

2014 - 2015 **IR DI – PUCV.** Valoración agronómica y social de las semillas locales en Chile.

2014 - 2015 **IR DI – PUCV**. Incremento de la calidad ecofisiológica de semillas de pimiento (*Capsicum annuum* L.), mediante el manejo de la nutrición mineral en la producción.

2014 - 2015 **I DI – PUCV**. Hierba de las Marismas (*Selliera radicans* Cav.): Tolerancia al riego con agua salina e irradiación de semillas, en búsqueda de fenotipos para la práticamente.