

DOCTORADO EN CIENCIAS AGROALIMENTARIAS

Pablo Cornejo Rivas

Publicaciones (2017- presente)

1. Silambarasan, S., Logeswari, P., Sivaramakrishnan, R., Incharoensakdi, A., **Cornejo, P.**, Kamaraj, B., Lan-Chi, N. 2021. Removal of nutrients from domestic wastewater by microalgae coupled to lipid augmentation for biodiesel production and influence of deoiled algal biomass as biofertilizer for *Solanum lycopersicum* cultivation. *Chemosphere* 268:129323. Q1.
2. Pérez, R., Tapia, Y., Antilén, M., Casanova, M., Vidal, C., Santander, C., Aponte, H., **Cornejo, P.** 2021. Interactive effect of compost application and inoculation with the fungus *Claroideoglomus claroideum* in *Oenothera picensis* plants growing in mine tailings. *Ecotoxicology and Environmental Safety* 208:111495. Q1.
3. De Souza, P., Borie, F., **Cornejo, P.**, López, J., López, A., Seguel, A. 2021. Wheat root trait plasticity, nutrient acquisition and growth responses are dependent on specific arbuscular mycorrhizal fungus and plant genotype interactions. *Journal of Plant Physiology* 256: 153297. Q2.
4. Ercoli, S., Cartes, J., **Cornejo, P.**, Tereucán, G., Winterhalter, P., Contreras, B., Ruiz, A. 2021. Stability of phenolic compounds, antioxidant activity and colour parameters of a coloured extract obtained from coloured-flesh potatoes. *LWT Food Science and Technology* 136(2): 110370. Q1.
5. Santander, C., Aroca, R., Cartes, P., Vidal, G., **Cornejo, P.** 2021. Aquaporins and cation transporters are differentially regulated by two arbuscular mycorrhizal fungi strains in lettuce cultivars growing under salinity conditions. *Plant Physiology and Biochemistry* 158:396-409. Q1.
6. Ercoli, S., Parada, J., Bustamante, L., Hermosín, I., Contreras, B., **Cornejo, P.**, Ruiz, A. 2021. Noticeable Quantities of Functional Compounds and Antioxidant Activities Remain after Cooking of Colored Fleshed Potatoes Native from Southern Chile. *Molecules* 26: 314. Q2.
7. Silambarasan, S., Logeswari, P., Sivaramakrishnan, R., Pugazhendhi, A., Kamaraj, B., Ruiz, A., Ramadoss, G., **Cornejo, P.** 2021. Polyhydroxybutyrate production from ultrasound-aided alkaline pretreated finger millet straw using *Bacillus megaterium* strain CAM12. *Bioresource Technology* 325:124632. Q1.
8. Vidal, C., Larama, G., Riveros, A., Meneses, C., **Cornejo, P.** 2021. Main Molecular Pathways Associated with Copper Tolerance Response in *Imperata cylindrica* by De novo Transcriptome Assembly. *Plants* 10: 357. Q1.
9. Tereucan, G., Ercoli, S., **Cornejo, P.**, Winterhalter, P., Contreras, B., Ruiz, A. 2021. Stability of antioxidant compounds and activities of a natural dye from coloured-flesh potatoes in dairy foods. *LWT-Food Science and Technology* 144:111252. Q1.

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10. Aponte, H., Mondaca, P., Santander, C., Meier, S., Paolini, J., Buttler, B., Rojas, C., Diez, C., **Cornejo, P.** 2021. Enzyme activities and microbial functional diversity in metal(loid) contaminated soils near to a copper smelter. *Science of The Total Environment* 779:146423. Q1.
11. Aguilera, P., Romero, J., Becerra, N., Martínez, O., Vilela, R., Borie, F., **Cornejo, P.**, Alvear, M., López, M. 2021. Phenological Stages and Aluminum Presence Influences Arbuscular Mycorrhizal Fungi Communities in Roots of Plant Cereals. *Journal of Soil Science and Plant Nutrition* 21:1467-1473. Q2.
12. Santander, C., García, S., Moreira, J., Aponte, H., Araneda, P., Olave, J., Vidal, G., **Cornejo, P.** 2021. Arbuscular Mycorrhizal Fungal Abundance in Elevation Belts of the Hyperarid Atacama Desert. *Fungal Ecology* 51:101060. Q2.
13. Medina, J., Calabi, M., Aponte, H., Santander, C., Paneque, M, Meier, S., Panettieri, M., **Cornejo, P.**, Borie, F., Knicker, H. 2021. Utilization of inorganic nanoparticles and biochar as additives of agricultural waste composting: Effects of end-products on plant growth, C and nutrient stock in soils from a Mediterranean region. *Agronomy* 11: 767. Q1.
14. Silambarasan, S., Logeswari, P., Sivaramkrishnan, R., Kamaraj, B., Thuy Lan Chi, N., **Cornejo, P.** 2021. Cultivation of *Nostoc* sp. LS04 in municipal wastewater for biodiesel production and their deoiled biomass cellular extracts as biostimulants for *Lactuca sativa* growth improvement. *Chemosphere* 280: 130644. Q1.
15. Urgiles, N., Avila, M., Loján, P., Encalada, M., Hurtado, L., Araujo, S., Collahuazo, Y., Guachanamá, J., Poma, N., Granda, K., Robles, A., Senés, C., **Cornejo, P.** 2021. Plant Growth-Promoting Microorganisms in Coffee Production: From Isolation to Field Application. *Agronomy* 11: 1531. Q1.
16. Pérez, R., Tapia, Y., Antilén, M., Casanova, M., Vidal, C., Silambarasan, S., **Cornejo, P.** 2021. Rhizosphere management for phytoremediation of copper mine tailings. *Journal of Soil Science and Plant Nutrition* 21:3091-3109. Q2.
17. Nahuelcura, J., Ruiz, A., Gomez, F., **Cornejo, P.** 2021. The effect of arbuscular mycorrhizal fungi on the phenolic compounds profile, antioxidant activity and grain yields in wheat cultivars growing under hydric stress. *Journal of the Science of Food and Agriculture* 102: 407-416. Q1.
18. Seguel, A., Meier, S., Azcón, R., Valentine, A., Meriño, C., **Cornejo, P.**, Aguilera, P., Borie, F. 2020. Showing their mettle: Extraradical mycelia of arbuscular mycorrhizae form a metal filter to improve host Al tolerance and P nutrition. *Journal of the Science of Food and Agriculture* 100(2): 803-810. Q1.
19. Medina, J., Monreal, C., Orellana, L., Calabi, M., González, M., Meier, S., Borie, F., **Cornejo, P.** 2020. Influence of saprophytic fungi and inorganic additives on enzyme activities and chemical properties of the biodegradation process of wheat straw for the production of organo-mineral amendments. *Journal of Environmental Management* 255:109922. Q1.

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20. Ruiz, A., García, S., Aroca, R., Cumming, J., **Cornejo, P.** 2020. Efficiency of two arbuscular mycorrhizal fungal inocula to improve saline stress tolerance in lettuce plants by changes of antioxidant defense mechanisms. *Journal of the Science of Food and Agriculture* 100: 1577-1587. Q1.
21. Chávez, D., Machuca, A., Fuentes, A., Fernández, N., **Cornejo, P.** 2020. Shifts in soil traits and arbuscular mycorrhizal symbiosis represent the conservation status of *Araucaria araucana* forests and the effects after fire events. *Forest Ecology and Management* 458: 117806. Q1.
22. Aguilera, A., Tereucán, G., Ercoli, S., **Cornejo, P.**, Rodríguez, M., Uhlmann, L., Guigas, C., Esatbeyoglu, T., Ruiz, A. 2020. Influence of organic and traditional fertilization on antioxidant compounds profiles and activities in fruits of *Fragaria ananassa* var. Camarosa. *Journal of Soil Science and Plant Nutrition* 20: 715-724. Q2.
23. Tapia, Y., Loch, B., Castillo, B., Acuña, E., Casanova, M., Salazar, O., **Cornejo, P.**, Antilén, M. 2020. Accumulation of sulfur in *Atriplex nummularia* cultivated in mine tailings and effect of organic amendments addition. *Water Air & Soil Pollution* 231(1): 8. Q3.
24. Medina, J., Monreal, C., Antilén, M., Calabi, M., Velasco, M., Meier, S., Borie, F., **Cornejo, P.**, Knicker, H. 2020. Influence of inorganic additives on wheat straw composting: characterization and structural composition of organic matter derived from the process. *Journal of Environmental Management* 260: 110137. Q1.
25. Pfeiffer, M., Padarian, J., Osorio, R., Bustamante, N., Olmedo, G., Guevara, M., Aburto, F., Antilén, M., Araya, E., Arellano, E., Barret, M., Barrera, J., Boeckx, P., Briceño, M., Bunning, S., Cabrol, L., Casanova, M., **Cornejo, P.**, Corradini, F., Curaqueo, G., Doetterl, S., Durán, P., Escudey, M., Espinoza, A., Francke, S., Fuentes, J., Fuentes, M., Gajardo, G., García, R., Gallaud, A., Galleguillos, M., Gómez, A., Hidalgo, M., Ivelic, J., Mashalaba, L., Matus, F., Mora, M., Mora, J., Muñoz, C., Norambuena, P., Olivera, C., Ovalle, C., Panichini, M., Pauchard, A., Pérez, J., Radic, S, Ramírez, J., Riveras, N., Ruiz, G., Salazar, O., Salgado, I., Seguel, O., Sepúlveda, M., Sierra, C., Tapia, Y., Toledo, B., Torrico, J., Valle, S., Vargas, R., Wolff, M., Zagal, E. 2020. CHLSOC: The Chilean Soil Organic Carbon database, a multi-institutional collaborative effort. *Earth System Science Data* 12(1):457-468. Q1.
26. Aponte, H., Herrera, W., Cameron, C., Black H., Meier, S., Paolini, J., Tapia, Y., **Cornejo, P.** 2020. Alteration of enzyme activities and functional diversity of a soil contaminated with copper and arsenic. *Ecotoxicology and Environmental Safety* 192: 110264. Q1.
27. Aponte, H., Medina, J., Butler, B., Meier, S., **Cornejo, P.**, Kuzyakov, Y. 2020. Soil quality indices for metal(loid) contamination: An enzymatic perspective. *Land Degradation and Development* 31:2700-2719. Q2.
28. Aponte, H., Meli, P., Butler, B., Paolini, J., Matus, F., Merino, C., **Cornejo, P.**, Kuzyakov, Y. 2020. Meta-analysis of heavy metal effects on soil enzyme activities. *Science of the Total Environment* 737: 73. Q1.

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29. Ávila, M, Montesdeoca, F., Orellana, M., Pacheco, K., Alvarado, S., Becerra, N., Marín, C., Borie, F., Aguilera, P., **Cornejo, P.** 2020. Soil Biological Properties and Arbuscular Mycorrhizal Fungal Communities of Representative Crops Established in the Andean Region from Ecuadorian Highlands. *Journal of Soil Science and Plant Nutrition* 20: 2156-2163. Q2.
30. Merino, C., Kuzyakov, Y., Godoy, K., **Cornejo, P.**, Matus, F. 2020. Synergy effect of peroxidases enzymes and Fenton reactions greatly increase the anaerobic oxidation of soil organic matter. *Scientific Reports* 10:11289. Q1.
31. Silambarasan, S., Logeswari, P., Ruiz, A., **Cornejo, P.**, Kannan, V. 2020. Influence of plant beneficial *Stenotrophomonas rhizophila* strain CASB3 on the degradation of diuron-contaminated saline soil and improvement of *Lactuca sativa* growth. *Environmental Science and Pollution Research* 27:35195-35207. Q2.
32. Oyarzún, P., **Cornejo, P.**, Góme, S., Ruiz, A. 2020. Influence of Profiles and Concentrations of Phenolic Compounds in the Coloration and Antioxidant Properties of *Gaultheria poeppigii* Fruits from Southern Chile. *Plant Foods for Human Nutrition* 75(4):532-539. Q2.
33. Silambarasan, S., Logeswari, P., Valentine, A., **Cornejo, P.**, Kannan, V. 2020. *Pseudomonas citronellolis* strain SLP6 enhances the phytoremediation efficiency of *Helianthus annuus* in copper contaminated soils under salinity stress. *Plant and Soil* 457: 241-253. Q1.
34. Vidal, C., Ruiz, A., Ortiz, J., Larama, G., Perez, R., Santander, C., Avelar, P., **Cornejo, P.** 2020. Antioxidant responses of phenolic compounds and immobilization of copper in *Imperata cylindrica*, a plant with potential use for bioremediation of Cu contaminated environments. *Plants* 9(10): 1397. Q1.
35. Montesdeoca, F., Ávila, M., Quishpe, J., Borie, F., **Cornejo, P.**, Aguilera, P., Alvarado, S., Espinosa, J. 2020. Early changes in the transition from conventional to no-tillage in a volcanic soil cultivated with beans (*Phaseolus vulgaris* L.). *Chilean Journal of Agricultural and Animal Sciences (Agrociencia)* 36: 181-189. Q4.
36. Silambarasan, S., Logeswari, P., **Cornejo, P.**, Kannan, V. 2019. Evaluation of the production of exopolysaccharide by plant growth promoting yeast *Rhodotorula* sp. strain CAH2 under abiotic stress conditions. *International Journal of Biological Macromolecules* 121:55-62. Q1.
37. Parada, J., Valenzuela, T., Gómez, F., Tereucán, G., García, S., **Cornejo, P.**, Winterhalter, P., Ruiz, A. 2019. Effect of fertilization and arbuscular mycorrhizal fungal inoculation on antioxidant profiles and activities in *Fragaria ananassa* fruit. *Journal of the Science of Food and Agriculture* 99:1397-1404. Q1.
38. Ruiz, A., Sanhueza, M., Gómez, F., Tereucán, G., Valenzuela, T., García, S., **Cornejo, P.**, Hermosín, I. 2019. Changes on the content of anthocyanins, flavonols and antioxidant activity in *Fragaria*

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ananassa var. camarosa fruits under traditional and organic fertilization. *Journal of the Science of Food and Agriculture* 99:2404-2410. Q1.

39. Santander, C., Sanhueza, M., Olave, J., Borie, F., Valentine, A., **Cornejo, P.** 2019. Arbuscular Mycorrhizal Colonization Promotes the Tolerance to Salt Stress in Lettuce Plants through an Efficient Modification of Ionic Balance. *Journal of Soil Science and Plant Nutrition* 19: 321-331. Q2.
40. **Borie, F.**, Aguilera, P., Castillo, C., Valentine, A., Seguel, A., Barea, J., **Cornejo, P.** 2019. Revisiting the nature of phosphorus pools in Chilean volcanic soils as a basis for arbuscular mycorrhizal management in plant P acquisition. *Journal of Soil Science and Plant Nutrition* 19: 390-401. Q2.
41. Silambarasan, S., Logeswari, P., **Cornejo, P.**, Abraham, J., Valentine, A. 2019. Simultaneous mitigation of aluminum, salinity and drought stress in *Lactuca sativa* growth via formulated plant growth promoting *Rhodotorula mucilaginosa* CAM4. *Ecotoxicology and Environmental Safety* 180: 63-72. Q1.
42. Campos, P., **Cornejo, P.**, Rial, C., Borie, F., Varela, R., Seguel, A., López, J. 2019. Phosphate acquisition efficiency in wheat is related to root:shoot ratio, strigolactone levels, and PHO2 regulation. *Journal of Experimental Botany* 70(20): 5631–5642. Q1.
43. Silambarasan, S., Logeswari, P., Valentine, A., **Cornejo, P.** 2019. Role of *Curtobacterium herbarum* strain CAH5 on aluminum bioaccumulation and enhancement of *Lactuca sativa* growth under aluminum and drought stresses. *Ecotoxicology and Environmental Safety* 183:109573. Q1.
44. Silambarasan, S., Logeswari, P., **Cornejo, P.**, Kannan, V. 2019. Role of plant growth–promoting rhizobacterial consortium in improving the *Vigna radiata* growth and alleviation of aluminum and drought stresses. *Environmental Science and Pollution Research* 26:27647-27659. Q2.
45. Griebenow, S., Zuñiga, A., Muñoz, G., Cornejo, P., Kleinert, A., Valentine, A. 2019. Photosynthetic metabolism during phosphate limitation in a legume from the Mediterranean-type Fynbos ecosystem. *Journal of Plant Physiology* 243: 153051. Q2.
46. Aguilera P., Larsen, J., Borie, F., Berríos, D., Tapia, C., **Cornejo, P.** 2018. New evidences on the contribution of arbuscular mycorrhizal fungi inducing Al tolerance in wheat. *Rhizosphere* 5: 43-50. Q2.
47. Campos, P., Borie, F., **Cornejo, P.**, López, J., López, A., Seguel, A. 2018. Phosphorus acquisition efficiency related to root traits: Is mycorrhizal symbiosis a key factor to wheat and barley cropping? *Frontiers in Plant Science* 9:752. Q1.
48. Ruiz, A., Aguilera, A., Ercoli, S., Parada, J., Winterhalter, P., Contreras, B., **Cornejo, P.** 2018. Effect of the frying process on the composition of hydroxycinnamic acid derivatives and antioxidant activity in flesh colored potatoes. *Food Chemistry* 268: 577-584. Q1.

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49. Ferreira, P., Ceretta, C., Tiecher, T., Facco, D., Garlet, L., Soares, C., Soriani, H., Nicoloso, F., Giachini, A., Brunetto, G., **Cornejo, P.** 2018. Rhizophagus clarus and Phosphorus in Crotalaria juncea: Growth, Glomalin Content and Acid Phosphatase Activity in a Copper-Contaminated Soil. Revista Brasileira de Ciência do Solo 42: e0170245. Q4.
50. Moguilevsky, D., Fernández, N., **Cornejo, P.**, Puntieri, J., Fontenla, S. 2018. Nothofagus pumilio forest affected by recent tephra deposition in northern Patagonia: I Environmental traits influencing seedling growth. Journal of Soil Science and Plant Nutrition 18: 487-498. Q2.
51. Fernández, N., Fontenla, S., Moguilevsky, D., Meier, S., Rilling, J., **Cornejo, P.** 2018. Nothofagus pumilio forest affected by recent tephra deposition in northern Patagonia: II Shifts in diversity and structure of rhizosphere fungal communities. Journal of Soil Science and Plant Nutrition 18: 499-511. Q2.
52. Durán, P., Viscardi, S., Acuña, J., **Cornejo, P.**, Azcón, R., Mora, M. 2018. Endophytic selenobacteria and arbuscular mycorrhizal fungus for Selenium biofortification and Gaeumannomyces graminis biocontrol. Journal of Soil Science and Plant Nutrition 18:1021-1035. Q2.
53. **Cornejo, P.**, Meier, S., Seguel, A., Durán, P., García, S., Ferrol, N., Borie, F. 2017. Contribution of inoculation with arbuscular mycorrhizal fungi to the bioremediation of a copper contaminated soil using Oenothera picensis. Journal of Soil Science and Plant Nutrition 17:14-21. Q2.
54. Meier, S., Curaqueo, G., Khan, N., Bolan, N., Cea, M., González, M., **Cornejo, P.**, OK, Y., Borie, F. 2017. Chicken manure-derived biochar reduce the bioavailability of copper in a contaminated soil. Journal of Soils and Sediments 17: 741-750. Q2.
55. Meier, S., Curaqueo, G., Khan, N., Bolan, N., Rilling, J., Vidal, C., Fernández, N., Acuña, J., González, M., **Cornejo, P.**, Borie, F. 2017. Effects of biochar on copper immobilization and soil microbial communities in a metal-contaminated soil. Journal of Soils and Sediments 17: 1237-1250. Q2.
56. Parillo, R., Ventrino, V., Pepe, O., **Cornejo, P.**, Testa, A. 2017. Use of Compost from Chestnut Lignocellulosic Residues as Substrate for Tomato Growth. Waste and Biomass Valorization 8: 2711-2720. Q3.
57. Medina, J., Monreal, C., Chabot, D., Meier, S., González, M., Morales, E., Parillo, R., Borie, F., **Cornejo, P.** 2017. Microscopic and spectroscopic characterization of humic substances from a compost amended copper contaminated soil: Main features and their potential effects on Cu immobilization. Environmental Science and Pollution Research 24: 14104-14116. Q2.
58. Seguel, A., **Cornejo, P.**, Ramos, A., Von Baer, E., Cumming, J., Borie, F. 2017. Phosphorus acquisition by three wheat cultivars contrasting in aluminum tolerance growing in an aluminum-rich Andisol. Crop & Pasture Science 68: 305-316. Q2.

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59. Santander, C., Aroca, R., Ruiz, J., Olave, J., Borie, F., **Cornejo, P.** 2017. Arbuscular mycorrhiza effects on plant performance under osmotic stress. *Mycorrhiza* 27:639-657. Q1.
60. Marín, C., Oehl, F., Godoy, R., Borie, F., **Cornejo, P.** 2017. Selection of aluminum tolerant cereal genotypes strongly influences the arbuscular mycorrhizal fungal communities in an acidic Andosol. *Agriculture Ecosystems & Environment* 246:86-93. Q1.
61. Sarabia, M., **Cornejo, P.**, Azcón, R., Carreón, Y., Larsen, J. 2017. Mineral phosphorus fertilization modulates interactions between maize, rhizosphere yeasts and arbuscular mycorrhizal fungi. *Rhizosphere* 4:89-93. Q2.

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

1. Obtención de pigmentos de papas coloreadas para su uso como colorante de alimentos procesados.
Financiamiento: FIA code PYT-2016-0674
Rol: Director alterno
Duración: 2017-2019
Año adjudicación: 2017
2. Development of climate-resilient bio-inoculants of plant growth promoting yeast to improve the production of horticultural crops in La Araucanía Region.
Financiamiento: FONDECYT Postdoctorado 3170123
Rol: Supervisor
Duración: 2017-2020
Año adjudicación: 2017
3. Efecto de las asociaciones vegetales y de la incidencia de incendios forestales sobre las comunidades de hongos micorrízicos arbusculares asociados a la rizosfera de *Araucaria araucana*.
Financiamiento: FONDECYT Postdoctorado 3170089
Rol: Supervisor
Duración: 2017-2020
Año Adjudicación: 2017
4. Influence of drought on the efficiency of arbuscular mycorrhizal symbiosis in phosphorus acquisition by plants growing in Andisols from Southern Chile: wheat as a crop model.
Financiamiento: FONDECYT Regular 1170264
Rol: Investigador responsable
Duración: 2017-2021
Año adjudicación: 2017
5. Contribution of native bacteria and fungi to alleviate stress in soil degraded by heavy metals and drought: evaluation of plant growth promotion, tolerance mechanisms and rhizosphere interactions.

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Financiamiento: FONDECYT Regular 1170931

Rol: Co-investigador

Duración: 2017-2021

Año adjudicación: 2017

- 6.** Estudio comparativo de las adaptaciones y simbiosis radicales Micorrizas Arbusculares, Rhizobio-Leguminosa y Raíces Proteoideas en especies agrícolas y nativas chilenas: Hacia un uso eficiente de fósforo retenido en Andisoles del sur de Chile.
Financiamiento: Proyecto para Atracción de Capital Humano Avanzado del Extranjero Modalidad Estadías Cortas, MEC-CONICYT folio 80170023
Rol: Director
Duración: 2017-2018
Año adjudicación: 2017
- 7.** Sustainable management of mining tailings using native plants and biofertilizers to recover the landscape, mitigate the socioenvironmental impact and create bases for its valorization.
Financiamiento: ACM170002 Anillos de Investigación en Ciencia y Tecnología en tópicos de Minería.
Rol: Investigador principal
Duración: 2018-2021
Año adjudicación: 2017
- 8.** Valorización del residuo de papas de pulpa coloreada tras la extracción de pigmentos para su potencial utilización industrial.
Financiamiento: Voucher de Innovación CORFO 17VIP87872
Rol: Co-director
Duración: 2018
Año adjudicación: 2018
- 9.** How precedent non-mycorrhizal crops affect soil P bioavailability, physiological root traits, and mycorrhizal symbiosis of wheat in a rotation system in volcanic soils of Chile.
Financiamiento: FONDECYT Regular 1191551
Rol: Co-investigador
Duración: 2019-2022
Año adjudicación: 2019
- 10.** Can the directed inoculation of arbuscular mycorrhizal fungi modify the profiles and quantity of antioxidant compounds in flesh-colored potatoes cropped under drought and P starvation conditions?
Financiamiento: FONDECYT Regular 1190585
Rol: Co-investigador
Duración: 2019-2023
Año adjudicación: 2019
- 11.** Centro de Recursos Hídricos para la Agricultura y Minería, CRHIAM.
Financiamiento: ANID/FONDAP/15130015

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Rol: Investigador asociado

Duración: 2019-2023

Año adjudicación: 2018

- 12.** Obtención de líneas de papas ricas en proteínas de origen vegetal y antioxidantes como superalimento.
Financiamiento: CORFO Súmate a Innovar 20SN-139512
Rol: Investigador co-responsable
Duración: 2020-2021
Año adjudicación: 2020
- 13.** How the management of rhizosphere microbiota can enhance plant production under drought stress: Developing a scientific basis for the design of next generation biofertilizers.
Financiamiento: FONDECYT Regular 1210964
Rol: Investigador responsable
Duración: 2021-2025
Año adjudicación: 2021
- 14.** Interacción biotecnología-ambiente-agricultura para la mitigación del cambio climático: Hacia la sustentabilidad productiva y resiliencia de los recursos naturales.
Financiamiento: InES19-VRIP-UFRO
Rol: Director general
Duración: 2021-2023
Año adjudicación: 2021