

**Publicaciones WoS (ISI) Doctorado en Ciencias de Recursos Naturales**

**Año: 2019**

**Publicaciones Totales: 130**

**Publicaciones Alumnos de Doctorado: 43**

**Publicaciones con investigadores extranjeros: 84**

1. **Herrera H**, Garcia I, Meneses C, Pereira G, Arriagada C. 2019. Orchid mycorrhizal interactions on the pacific side of the andes from chile a review. *Journal of soil science and plant nutrition.* 19:187–202.  
Impact Factor: 3.6  
DOI: 10.1007/s42729-019-00026-x  
Quartile: 2  
Editorial: Springer Nature, Switzerland  
ISSN: 0718-9516
2. Soto J, Ortiz J, **Herrera H**, Fuentes D, Almonacid L, Charles T, Arriagada C. 2019. Enhanced arsenic tolerance in *Triticum aestivum* inoculated with arsenic-resistant and plant growth promoter microorganisms from a heavy metal-polluted soil. *Microorganisms.* 7(9):348.  
Impact Factor: 4.926  
DOI: 10.3390/microorganisms7090348  
Quartile: 2  
Editorial: MDPI AG, Switzerland  
ISSN:2076-2607
3. Ortiz J, Soto J, Almonacid L, Fuentes D, Campos R, Arriagada C. 2019. Alleviation of metal stress by *Pseudomonas orientalis* and *Chaetomium cupreum* strains and their effects on *Eucalyptus globulus* growth promotion. *Plant and soil.* 436:449–461.  
Impact Factor: 4.993  
DOI: 10.1007/s11104-019-03946-w  
Quartile: 1  
Editorial: Springer Nature, Switzerland  
ISSN:1573-5036
4. **Herrera H**, Palma G, Almonacid L, Campos R, Fuentes D, Garcia I, Arriagada C. 2019. Improving soil simazine dissipation through an organic amendment inoculated with *Trametes versicolor*. *Journal of soil science and plant nutrition.* 19:262–269.  
Impact Factor: 3.6  
DOI: 10.1007/s42729-019-0019-7  
Quartile: 2  
Editorial: Springer, Switzerland  
ISSN:0718-9508
5. Herrera H, Soto J, De Bashan L, Sampedro I, Arriagada C. 2019. Root-associated fungal communities in two populations of the fully mycoheterotrophic plant *Arachnitis uniflora* phil. (corsiaceae) in southern chile. *Microorganisms.* 12: 586.  
Impact Factor: 4.926  
DOI: 10.3390/microorganisms7120586

Quartile: 2

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6. Ortiz J, Soto J, Fuentes A, **Herrera H**, Meneses C, Arriagada C. 2019. The endophytic fungus *Chaetomium cupreum* regulates expression of genes involved in the tolerance to metals and plant growth promotion in *Eucalyptus globulus* roots. *Microorganisms*. 11:490.  
Impact Factor: 4.926  
DOI: 10.3390/microorganisms7110490  
Quartile: 2  
Editorial: MDPI AG, Switzerland  
ISSN:2076-2607
7. Venthur H, Machuca J, **Godoy R**, Palma-Millanao R, Zhou J, Larama G, Bardehle L, Quiroz A, Ceballos R, Mutis A. 2019. Structural investigation of selective binding dynamics for the pheromone? binding protein 1 of the grapevine moth, *Lobesia botrana*. *Archives of insect biochemistry and physiology*. 101:e21557.  
Impact Factor: 2.454  
DOI: 10.1002/arch.21557  
Quartile: 2  
Editorial: Wiley, USA  
ISSN:1520-6327
8. **Fincheira P**, Quiroz A. 2019. Physiological response of *Lactuca sativa* exposed to 2-nonenone emitted by *Bacillus sp.* bct9. *Microbiological research*. 219:49-55.  
Impact Factor: 5.07  
DOI: 10.1016/j.micres.2018.11.002  
Quartile: 2  
Editorial: Elsevier Science BV, Netherlands  
ISSN:0944-5013
9. Aburto C, Godoy R, Bardehle L, Quiroz A, Venthur H. 2019. Antennal morphology and localization of a general odorant-binding protein in the great wax moth, *Galleria mellonella* (lepidoptera: pyralidae). *Journal of apicultural research*. 59:472-485.  
Impact Factor: 2.407  
DOI: 10.1080/00218839.2019.1702325  
Quartile: 2  
Editorial: Taylor & Francis Ltd, England  
ISSN:0021-8839
10. **Fincheira P**, Rubilar O, Espinoza J, Aniñir W, Méndez L, Seabra A.B, Quiroz A. 2019. Formulation of a controlled-release delivery carrier for volatile organic compounds using multilayer o/w emulsions to plant growth. *Colloids and surfaces a: physicochemical and engineering aspects*. 580:123738.  
Impact Factor: 5.518  
DOI: 10.1016/j.colsurfa.2019.123738  
Quartile: 2  
Editorial: Elsevier Science BV, Netherlands  
ISSN:0927-7757
11. Godoy R, Aburto C, Lizana P, Venthur H, Palma-Millanao R, Méndez L, Panichini M, **Moraga F**, Bardehle L,

- Quiroz A, Mutis A. 2019. Antennal morphology and localization of a pheromone-binding protein of *Lobesia botrana* (denis & schiffermüller) (lepidoptera: tortricidae). *Neotropical entomology*. 3:422-432.  
Impact Factor: 1.65  
DOI: 10.1007/s13744-018-0648-x  
Quartile: 3  
Editorial: Springer, Switzerland  
ISSN:1678-8052
12. Rodríguez R, Santos C, Simões C, Santos C, Lima N. 2019. Polyphasic, including MALDI-TOF MS, evaluation of freeze-drying long-term preservation on *Aspergillus* (section *Nigri*) strains. *Microorganisms*. 9: 291.  
Impact Factor: 4.926  
DOI: 10.3390/microorganisms7090291  
Quartile: 2  
Editorial: MDPI AG, Switzerland  
ISSN:2076-2607
13. Crous PW, Carnegie AJ, Wingfield MJ, Sharma R, Mughini G, Noordeloos ME, Santini A, Shouche YS, Bezerra JDP, Dima B, Guarnaccia V, Imrefi I, Jurjević Ž, Knapp DG, Kovács GM, Magistà D, Perrone G, Rämä T, Rebrev YA, Shivas RG, Singh SM, Souza-Motta CM, Thangavel R, Adhapore NN, Alexandrova AV, Alfenas AC, Alfenas RF, Alvarado P, Alves AL, Andrade DA, Andrade JP, Barbosa RN, Barili A, Barnes CW, Baseia IG, Bellanger JM, Berlanas C, Bessette AE, Bessette AR, Biketova AYU, Bomfim FS, Brandrud TE, Bransgrove K, Brito ACQ, Cano-Lira JF, Cantillo T, Cavalcanti AD, Cheewangkoon R, Chikowski RS, Conforto C, Cordeiro TRL, Craine JD, Cruz R, Damm U, de Oliveira RV, de Souza JT, de Souza HG, Dearnaley JDW, Dimitrov RA, Dovana F, Erhard A, Estevez-Raventós F, Félix CR, Ferisin G, Fernandes RA, Ferreira RJ, Ferro LO, Figueiredo CN, Frank JL, Freire KTLS, García D, Gené J, Gęsiorska A, Gibertoni TB, Gondra RAG, Gouliamova DE, Gramaje D, Guard F, Gusmão LFP, Haitook S, Hirooka Y, Houbraken J, Hubka V, Inamdar A, Iturriaga T, Iturrieta-González I, Jadan M, Jiang N, Justo A, Kachalkin AV, Kapitonov VI, Karadelev M, Karakehian J, Kasuya T, Kautmanová I, Kruse. 2019. Fungal planet description sheets: 868-950. *Persoonia*. 42: 291–473.  
Impact Factor: 11.658  
DOI: 10.3767/persoonia.2019.42.11  
Quartile: 1  
Editorial: Ingenta Connect, England  
ISSN:0031-5850
14. Lima M.S, Lucas R.C, Lima N, Polizeli M.L.T.M, Santos C. 2019. Fungal community ecology using MALDI-TOF MS demands curated mass spectral databases. *Frontiers in Microbiology*. 10:315.  
Impact Factor: 6.064  
DOI: 10.3389/fmicb.2019.00315  
Quartile: 1  
Editorial: Frontiers Media SA, Switzerland  
ISSN:1664-302X
15. Costa J, Rodríguez R, Garcia-Cela E, Medina A, Magan N, Lima N, Battilani P, Santos C. 2019. Overview of fungi and mycotoxin contamination in *Capsicum* pepper and in its derivatives. *Toxins*. 1: 27. Impact Factor: 5.075  
DOI: 10.3390/toxins11010027  
Quartile: 1  
Editorial: MDPI AG, Switzerland  
ISSN:2072-6651

16. Corrêa J.B, Moreira B.P, Lohman L, Sulzbacher L.M, dos Santos A.B, Ruiz A, Ludwig M.S, Hirsch G.L, Santos C, Gehrke I.T.S, Heck T.G. 2019. Characterization of *Schinus lentiscifolius* Marchand (Anacardiaceae) bark extract and its effects on lymphocyte oxidative stress and heat shock response. *Chemistry and Biodiversity*. 1:e1800303.  
Impact Factor: 2.745  
DOI: 10.1002/cbdv.201800303  
Quartile: 3  
Editorial: Wiley, USA  
ISSN:1612-1872
17. Svenja S, Koster M, Dippold M, **Najera F**, Matus F, Merino C, Boy J, Spielvogel S, Gorbushina A. 2019. Environmental drivers and stoichiometric constraints on enzyme activities in soils from rhizosphere to continental scale. *Geoderma*. 337:973-982  
Impact Factor: 7.422  
DOI: 10.1016/j.geoderma.2018.10.030  
Quartile: 1  
Editorial: Elsevier Science BV, Netherlands  
ISSN:0016-7061
18. Padrão J, Tortella G, Cortez S, Dias N, Nicolau A, Mota M. 2019. Nitrifying soil bacterium *Nitrosomonas europaea*: operational improvement of standard culture medium. *Journal of Soil Science and Plant Nutrition*. 19:270–276.  
Impact Factor: 3.6  
DOI: 10.1007/s42729-019-00023-0  
Quartile: 2  
Editorial: Springer Nature, Switzerland  
ISSN:0718-9508
19. Tortella G, Navas M, Parada M, Duran N, Barozzi A, Hoffmann N, Rubilar O. 2019. Synthesis of silver nanoparticles using extract of weeds and optimized by response surface methodology to control soil pathogenic bacteria *Ralstonia solanacearum*. *Journal of Soil Science and Plant Nutrition*. 19:148–156  
Impact Factor: 3.6  
DOI: 10.1007/s42729-019-00021-2  
Quartile: 2  
Editorial: Springer Nature, Switzerland  
ISSN:0718-9508
20. **Parada J**, Rubilar O, Diez M.C, Cea M, Sant'Ana da Silva A, Rodríguez-Rodríguez C.E, Tortella G.R. 2019. Combined pollution of copper nanoparticles and atrazine in soil: Effects on dissipation of the pesticide and on microbiological community profiles. *Journal of Hazardous Materials*. 361:228-236  
Impact Factor: 14.224  
DOI: 10.1016/j.jhazmat.2018.08.042  
Quartile: 1  
Editorial: Elsevier Science BV, Netherlands  
ISSN:0304-3894
21. **Parada J**, Rubilar O, Sousa D.Z, Martínez M, Fernández-Baldo M.A, Tortella G.R. 2019. Short-term changes in the abundance of nitrifying microorganisms in a soil-plant system simultaneously exposed to copper

- nanoparticles and atrazine. *Science of the Total Environment.* 670:1068-1074.  
Impact Factor: 10.754  
DOI: 10.1016/j.scitotenv.2019.03.221  
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Editorial: Elsevier Science BV, Netherlands  
ISSN:0048-9697
22. Tortella G, Rubilar O, Cea M, Rodriguez-Rodriguez C, Seguel A, **Parada J.** 2019. Sorption parameters of carbendazim and iprodione in the presence of copper nanoparticles in two different soils. *Journal of Soil Science and Plant Nutrition.* 19:469–476.  
Impact Factor: 3.6  
DOI: 10.1007/s42729-019-00037-8  
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Editorial: Springer Nature, Switzerland  
ISSN:0718-9516
23. Pieretti J, Pelegrino M, Nascimento M, Tortella G, Rubilar O, Seabra A. 2019. Small molecules for great solutions: Can nitric oxide-releasing nanomaterials overcome drug resistance in chemotherapy?. *Biochemical Pharmacology.* 176:113740.  
Impact Factor: 6.1  
DOI: 10.1016/j.bcp.2019.113740  
Quartile: 1  
Editorial: Elsevier Science BV, Netherlands  
ISSN:0006-2952
24. Manosalva N, Tortella G, Diez M.C, Schalchli H, Seabra A.B, Durán N, Rubilar O. 2019. Green synthesis of silver nanoparticles: Effect of synthesis reaction parameters on antimicrobial activity. *World Journal of Microbiology and Biotechnology.* 35(6):88.  
Impact Factor: 4.253  
DOI: 10.1007/s11274-019-2664-3  
Quartile: 2  
Editorial: Springer, Switzerland  
ISSN:0959-3993
25. Masís-Mora M, Lizano-Fallas V, Tortella G, Beita-Sandí W, Rodríguez-Rodríguez C.E. 2019. Removal of triazines, triazoles, and organophosphates in biomixtures and application of a biopurification system for the treatment of laboratory wastewaters. *Chemosphere.* 233:733-743.  
Impact Factor: 8.943  
DOI: 10.1016/j.chemosphere.2019.06.001  
Quartile: 1  
Editorial: Elsevier Science BV, Netherlands  
ISSN:0045-6535
26. Fincheira P, Tortella G, Duran N, Seabra A.B, Rubilar O. 2019. Current applications of nanotechnology to develop plant growth inducer agents as an innovation strategy. *Critical Reviews in Biotechnology.* 40:15-30.  
Impact Factor: 9.062  
DOI: 10.1080/07388551.2019.1681931  
Quartile: 1

Editorial: Taylor & Francis Inc, USA

ISSN: 0738-8551

27. Castillo R.L, Ibáñez M, Cortínez I, Carrasco-Pozo C, Farias J.G, Carrasco R, Vargas-Errázuriz P, Ramos D, Benavente R, Henríquez D, Méndez A. 2019. Dexmedetomidine improves cardiovascular and ventilatory outcomes in critically ill patients: Basic and clinical approaches. *Frontiers in Pharmacology*. 10:1641.  
Impact Factor: 5.988  
DOI: 10.3389/fphar.2019.01641  
Quartile: 1  
Editorial: Frontiers Media SA, Switzerland  
ISSN: 1663-9812
28. Lee M, Herrera L, Diaz R, Beltran J, Figueroa E, Dumoré K, Ulloa P, Short S, Risopatron J, Valdebenito N, Farias J. 2019. Effects of cryopreservation on cAMP-dependent protein kinase and AMP-activated protein kinase in Atlantic salmon (*Salmo salar*) spermatozoa: Relation with post-thaw motility. *Animal Reproduction Science*. 209:106133.  
Impact Factor: 2.22  
DOI: 10.1016/j.anireprosci.2019.106133  
Quartile: 2  
Editorial: Elsevier Science BV, Netherlands  
ISSN: 0378-4320
29. Diaz R, Lee M, Quiñones J, Dumorné K, Short S, Ulloa P, Valdebenito I, Sepulveda N, Farias J. 2019. Changes in Atlantic salmon (*Salmo salar*) sperm morphology and membrane lipid composition related to cold storage and cryopreservation. *Animal Reproduction Science*. 204:50-59.  
Impact Factor: 2.22  
DOI: 10.1016/j.anireprosci.2019.03.004  
Quartile: 2  
Editorial: Elsevier Science BV, Netherlands  
ISSN: 0378-4320
30. Herrera L, Beltran J, De Oliveira Rangel-Yanguí C, Effer B, Monteiro G, Pessoa A, Farias J. 2019. A structural in silico analysis of the immunogenicity of L-asparaginase from *Escherichia coli* and *Erwinia carotovora*. *Biologicals*. 59:47-55.  
Impact Factor: 1.76  
DOI: 10.1016/j.biologicals.2019.03.003  
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Editorial: Elsevier Science BV, Netherlands  
ISSN: 1045-1056
31. De Los Ríos P, Solis K, Rodriguez R, Farias J. 2019. First report on seasonal abundance of malacostracans in the Allipén River (38°51'S, North Patagonia, Araucanía Region, Chile). *Crustaceana*. 93:653-659.  
Impact Factor: 0.758  
DOI: 10.1163/15685403-bja10020  
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Editorial: Red de Repositorios Latinoamericanos, Chile  
ISSN: 0011-216X
32. De Los Ríos P, Farias J, Suazo M.J. 2019. First fecundity observations on female copepods from three northern

Patagonian lakes (Pellaifa, Calafquén, Panguipulli; Chile). Crustaceana. 92:897-905.

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Editorial: Koninklijke Brill NV, Leiden

ISSN:0011-216X

33. Contreras P, **Dumorné K, Ulloa-Rodríguez P**, Merino O, Figueroa E, Farías J.G, Valdebenito I, Risopatrón J. 2019. Effects of short-term storage on sperm function in fish semen: A review. *Reviews in Aquaculture*. 12:1373-1389.

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Editorial: Wiley, USA

ISSN:1753-5131

34. Figueroa E, Lee M, Valdebenito I, Watanabe I, Oliveira R, Romero J, Castillo R, Farias J. 2019. Effects of cryopreservation on mitochondrial function and sperm quality in fish. *Aquaculture*. 511:634190.

Impact Factor: 5.135

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Editorial: Elsevier Science BV, Netherlands

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35. De Los Ríos P, Farias J, Suazo M. 2019. Observations on crustacean zooplankton in two connected North Patagonian lakes (Calafquén-Pellaifa, 39°S, Chile). *Crustaceana*. 6:665-673.

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Editorial: Brill, Netherlands

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36. Herrera L, Rangel-Yagui C, Beltran J, Effer B, Lee M, Pessoa Junior A, Castillo R, Farias J. 2019. From synthesis to characterization of site-selective pegylated proteins. *Frontiers in Pharmacology*. 10:1450.

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37. De Los Ríos P, Farias J, Suazo M. 2019. Spatial distribution of *Aegla rostrata* Jara, 1977 (Decapoda, Anomura, Aeglidae) in the littoral of Pullinque Lake (39°S, North Patagonia, Chile). *Crustaceana*. 92:485-493.

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38. Effer B, Meira G, Cabarca S, Pessoa A, Farias J, Monteiro G. 2019. L-asparaginase from *E. chrysanthemi* expressed in GlycoSwitch: Effect of His-tag fusion on the extracellular expression. *Preparative Biochemistry and Biotechnology*. 7:679-685.  
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39. Beltran J, Herrera L, Farias J. 2019. TTAGP 1.0: A computational tool for the specific prediction of tumor T cell antigens. *Computational Biology and Chemistry*. 83:107103.  
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40. Beltran J, Herrera L, Farias J. 2019. ANTIVPP 1.0: A portable tool for prediction of antiviral peptides. *Computers in Biology and Medicine*. 107:127-130.  
Impact Factor: 6.698  
DOI: 10.1016/j.compbomed.2019.02.011  
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41. **Norambuena J**, Farias J, De Los Ríos P. 2019. The water flea *Daphnia pulex* (Cladocera, Daphniidae), a possible model organism to evaluate aspects of freshwater ecosystems. *Crustaceana*. 11-12:1415-1426.  
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Quartile: 4  
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ISSN:0011-216X
42. **Ulloa-Rodríguez P**, Contreras P, **Dumorné K**, Figueroa E, Risopatrón J, Valdebenito I, Farias J.G. 2019. Sperm morphology and ultrastructure of Patagonian blenny (*Eleginops maclovinus*). *Tissue and Cell*. 57:66-69.  
Impact Factor: 2.586  
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Quartile: 2  
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43. Beltran J, Herrera L, Lee M, Farias J. 2019. Role of voltage-gated L-type calcium channel in the spermatozoa motility of Atlantic salmon (*Salmo salar*). *Comparative Biochemistry and Physiology*. 241:110633.  
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45. Ventur H, Machuca J, **Godoy R**, Palma-Millanao R, Zhou J, Larama G, Bardehle L, Quiroz A, Ceballos R, Mutis A. 2019. Structural investigation of selective binding dynamics for the pheromone-binding protein 1 of the grapevine moth, *Lobesia botrana*. Archives of Insect Biochemistry and Physiology. 101:e21557.  
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Editorial: Wiley, USA  
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46. **Chacón M**, Mutis A, Bardehle L, Seguel I, Urzua A, Quiroz A. 2019. Decrease of flavonol synthase. Ciencia e Investigación Agraria. 46:30-39.  
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47. **Chacón-Fuentes M**, Bardehle L, Lizama M, Seguel I, **Medina C**, Quiroz A. 2019. Restoration of flavonols and isoflavonoids in *Ugni molinae* subjected to a reciprocal transplant experiment in a domestication framework. Chemistry and Ecology. 35:115-127.  
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48. **Chacón-Fuentes M**, Bardehle L, **Medina C**, Seguel I, Quiroz A. 2019. Volatiles induction in response to mechanical damage is reduced by domestication in murtilla. BLACPMA. 18 (4): 435 - 443.  
Impact Factor: 0.812  
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Editorial: Universidad de Santiago de Chile, Chile  
ISSN:0717-7917
49. Núñez-Montero K, Lamilla C, Abanto M, Maruyama F, Jorquera M.A, Santos A, Martínez-Urtaza J, Barrientos L. 2019. Antarctic *Streptomyces filodesensis* SO13.3 strain as a promising source for antimicrobials discovery. Scientific Reports. 9:7488.  
Impact Factor: 4.997  
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Quartile: 2

Editorial: Springer, Switzerland

ISSN:2045-2322

50. Zhang Q, Acuña J.J, Inostroza N.G, Mora M.L, Radic S, Sadowsky M.J, Jorquera M.A. 2019. Endophytic bacterial communities associated with roots and leaves of plants growing in Chilean extreme environments. *Scientific Reports.* 9:4950.  
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51. Spuler M.J, Briceño G, Duprat F, Jorquera M.A, Céspedes C, Palma G. 2019. Sorption kinetics of 2,4-D and diuron herbicides in a urea-fertilized Andisol. *Journal of Soil Science and Plant Nutrition.* 19: 313–320.  
Impact Factor: 2.116  
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ISSN:0718-9508
52. Durán P, Barra P.J, Jorquera M.A, Viscardi S, Fernandez C, Mora M.L, Bol R. 2019. Occurrence of soil fungi in Antarctic pristine environments. *Frontiers in Bioengineering and Biotechnology.* 7:28.  
Impact Factor: 3.6  
DOI: 10.3389/fbioe.2019.00028  
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Editorial: Frontiers Media SA, Switzerland  
ISSN:2296-4185
53. **Rilling J.J**, Acuña J.J, Nannipieri P, Cassan F, Maruyama F, Jorquera M.A. 2019. Current opinion and perspectives on the methods for tracking and monitoring plant growth-promoting bacteria. *Soil Biology and Biochemistry.* 130:205-219.  
Impact Factor: 8.546  
DOI: 10.1016/j.soilbio.2018.12.012  
Quartile: 1  
Editorial: Elsevier Science BV, Netherlands  
ISSN:0038-0717
54. Barra P.J, **Pontigo S**, Delgado M, **Parra-Almuna L**, Duran P, Valentine A.J, Jorquera M.A, Mora M.L. 2019. Phosphobacteria inoculation enhances the benefit of P-fertilization on *Lolium perenne* in soils contrasting in P-availability. *Soil Biology and Biochemistry.* 136:107516.  
Impact Factor: 8.546  
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55. Acuña J.J, Jaisi D, Campos M, Mora M.L, Jorquera M.A. 2019. ACCD-producing rhizobacteria from an Andean altiplano native plant (*Parastrephia quadrangularis*) and their potential to alleviate salt stress in wheat seedlings. *Applied Soil Ecology.* 136:184-190.

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ISSN:0929-1393

56. Houfani A.A, Větrovský T, Navarrete O.U, Štúrová M, Tláskal V, Beiko R.G, Boucherba N, Baldrian P, Benallaoua S, Jorquera M.A. 2019. Cellulase and hemicellulase activities and bacterial community composition of different soils from Algerian ecosystems. *Microbial Ecology*. 77:713–725.

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