

Publicaciones WoS (ISI) Doctorado en Ciencias de Recursos Naturales

Año: 2021

Publicaciones Totales: 141

Publicaciones Alumnos de Doctorado: 51

Publicaciones con investigadores extranjeros: 100

1. Soto J, Charles T C, Lynch M D J, Larama G, Herrera H, Arriagada C. 2021. Genome Sequence of *Brevundimonas* sp., an Arsenic Resistant Soil Bacterium. *Diversity*, 13(8), 344.
Impact Factor: 2.745
DOI: <https://doi.org/10.3390/d13080344>
Quartile: 3
Editorial: MDPI
ISSN: 1612-1872
2. García-Sánchez M, Silva-Castro GA, Sanchez A, Arriagada C, García-Romera I. 2021. Effect of arbuscular mycorrhizal fungi and mycoremediated dry olive residue in lead uptake in wheat plants. *Applied Soil Ecology*, 159, 103838.
Impact Factor: 5.509
DOI: <https://doi.org/10.1016/j.apsoil.2020.103838>
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0929-1393
3. Lagos C, Larsen J, Fuentes A, Herrera H, García-Romera I, Campos-Vargas R, Arriagada C. 2021. Inoculation of *Triticum aestivum* L. (Poaceae) with Plant-Growth-Promoting Fungi Alleviates Plant Oxidative Stress and Enhances Phenanthrene Dissipation in Soil. *Agronomy*, 11(3), 411.
Impact Factor: 3.949
DOI: <https://doi.org/10.3390/agronomy11030411>
Quartile: 1
Editorial: MDPI
ISSN: 2073-4395
4. Fincheira P, Rubilar O, Tortella G, **Medina C**, Seabra AB, Nascimento MHM, Diez MC, Quiroz A. 2021. Formulation of a Controlled-Release Carrier for 2-ketones Based on Solid Lipid Nanoparticles to Increase Seedling Growth in *Lactuca sativa* and *Solanum lycopersicum*. *Journal of Soil Science and Plant Nutrition*, 21(4), 3002–3015.
Impact Factor: 3.600
DOI: <https://doi.org/10.1007/s42729-021-00585-y>
Quartile: 2
Editorial: MDPI
ISSN: 0718-9508
5. Gallardo-Benavente C, Campo-Giraldo JL, Castro-Severyn J, Quiroz A, Pérez-Donoso JM. 2021. Genomics Insights into *Pseudomonas* sp. CG01: An Antarctic Cadmium-Resistant Strain Capable of Biosynthesizing CdS Nanoparticles Using Methionine as S-Source. *Genes*, 12(2), 187.
Impact Factor: 4.141
DOI: <https://doi.org/10.3390/genes12020187>
Quartile: 2
Editorial: MDPI
ISSN: 2073-4425

6. **Godoy R, Machuca J**, Ventur H, Quiroz A, Mutis A. 2021. An Overview of Antennal Esterases in Lepidoptera. *Frontiers in Physiology*, 12.
Impact Factor: 4.755
DOI: <https://doi.org/10.3389/fphys.2021.643281>
Quartile: 1
Editorial: Frontiers Media SA, Switzerland
ISSN: 1664-042X
7. Chacón-Fuentes M, Bardehle L, Seguel I, Rubilar F, Martínez-Cisterna D, Quiroz A. 2021. Domestication of Plants of *Ugni molinae* Turcz (Myrtaceae) Interferes in the Biology of *Chilesia rufis* (Lepidoptera: Erebidae) Larvae. *Molecules*, 26(7), 2063.
Impact Factor: 4.927
DOI: <https://doi.org/10.3390/molecules26072063>
Quartile: 2
Editorial: MDPI
ISSN: 1420-3049
8. Fincheira P, Jofré I, Tortella G, **Medina C**, Quiroz A, Seabra AB, Nascimento MHM, Diez MC, Rubilar O. 2021. The Prospection of Plant Response to 2-Ketones Released from Nanostructured Lipid Carriers. *Journal of Soil Science and Plant Nutrition*, 21(2), 1474–1483.
Impact Factor: 3.600
DOI: <https://doi.org/10.1007/s42729-021-00454-8>
Quartile: 2
Editorial: MDPI
ISSN: 0718-9508
9. Fincheira P, Tortella G, Seabra AB, Quiroz A, Diez MC, Rubilar O. 2021. Nanotechnology advances for sustainable agriculture: current knowledge and prospects in plant growth modulation and nutrition. *Planta*, 254(4), 66.
Impact Factor: 4.540
DOI: <https://doi.org/10.1007/s00425-021-03714-0>
Quartile: 1
Editorial: Springer Publishing
ISSN: 0032-0935
10. Espinoza J, Chacón-Fuentes M, Quiroz A, Bardehle L, Escobar-Bahamondes P, Ungerfeld E. 2021. Antifeedant Effects and Repellent Activity of Loline Alkaloids from Endophyte-Infected Tall Fescue against Horn Flies, *Haematobia irritans* (Diptera: Muscidae). *Molecules*, 26(4), 817.
Impact Factor: 4.927
DOI: <https://doi.org/10.3390/molecules26040817>
Quartile: 2
Editorial: MDPI
ISSN: 1420-3049
11. Fincheira P, Quiroz A, Tortella G, Diez MC, Rubilar O. 2021. Current advances in plant-microbe communication via volatile organic compounds as an innovative strategy to improve plant growth. *Microbiological Research*, 247, 126726.
Impact Factor: 5.070
DOI: <https://doi.org/10.1016/j.micres.2021.126726>
Quartile: 2
Editorial: Elsevier Science BV, Netherlands
ISSN: 0944-5013

12. Espinoza J, **Medina C**, Aniñir W, Escobar-Bahamondes P, Ungerfeld E, Urzúa A, Quiroz A. 2021. Insecticidal, repellent and antifeedant activity of essential oils from *Blepharocalyx cruckshanksii* (Hook. & Arn.) Nied. leaves and *Pilgerodendron uviferum* (D. Don) Florin heartwood against horn flies, Haematobia irritans (Diptera: Muscidae). *Molecules*, 26(22), 6936.
Impact Factor: 4.927
DOI: <https://doi.org/10.3390/molecules26226936>
Quartile: 2
Editorial: MDPI
ISSN: 1420-3049
13. Gómez-Velásquez JC, Mojica-Figueroa IL, Santos C, Lima N, Mesa-Arango AC. 2021. MALDI-TOF MS: Foundations and a Practical Approach to the Clinically Relevant Filamentous Fungi Identification. *Current Fungal Infection Reports*, 15(4), 162–170.
Impact Factor: 0.300
DOI: <https://doi.org/10.1007/s12281-021-00423-9>
Quartile: 4
Editorial: Springer Publishing
ISSN: 1936-3761
14. Pamplona Pagnossa J, Rocchetti G, de Abreu Martins HH, Pereira Bezerra JD, El-Saber Batiha G, El-Masry EA, Cocconcelli PS, Santos C, Lucini L, Hilsdorf Piccoli R. 2021. Morphological and metabolomics impact of sublethal doses of natural compounds and its nanoemulsions in *Bacillus cereus*. *Food Research International*, 149, 110658.
Impact Factor: 7.425
DOI: <https://doi.org/10.1016/j.foodres.2021.110658>
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0963-9969
15. **Costa J**, Lima N, Santos C. 2021. An overview on possible links between aflatoxin B1 exposure and gallbladder cancer. *Mycotoxin Research*, 37(3), 205–214.
Impact Factor: 4.082
DOI: <https://doi.org/10.1007/s12550-021-00431-1>
Quartile: 2
Editorial: Springer Publishing
ISSN: 0178-7888
16. **Costa J**, Ferreira EC, Santos C. 2021. COVID-19, Chikungunya, Dengue and Zika Diseases: An Analytical Platform Based on MALDI-TOF MS, IR Spectroscopy and RT-qPCR for Accurate Diagnosis and Accelerate Epidemics Control. *Microorganisms*, 9(4), 708.
Impact Factor: 4.926
DOI: <https://doi.org/10.3390/microorganisms9040708>
Quartile: 2
Editorial: MDPI
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17. Andrade da Silva M, Santos C, Pérez-Nevado F, Lima N, da Silva-Bentes JL. 2021. Actividad enzimática y proceso de infección inicial de la planta de guaraná (*Paullinia cupana*) por cepas patogénicas y endofíticas de *Colletotrichum guanicola*. *Revista Fitotecnia Mexicana*, 44(1), 67.
Impact Factor: 0.418
DOI: <https://doi.org/10.35196/rfm.2021.1.67>
Quartile: 4
Editorial: MX publications
ISSN: 0187-7380
18. Moreira I, **Costa J**, Vilela L, Lima N, Santos C, Schwan R. 2021. Influence of *S. cerevisiae* and *P. kluyveri* as starters on chocolate flavour. *Journal of the Science of Food and Agriculture*, 101(10), 4409–4419.
Impact Factor: 4.125

- DOI: <https://doi.org/10.1002/jsfa.11082>
Quartile: 1
Editorial: John Wiley & Sons Ltd
ISSN: 0022-5142
19. Duran P, Mora M L, Matus F, Barra P J, Jofré I, Kuzyakov Y, Merino C. 2021. Biological Crusts to Increase Soil Carbon Sequestration: New Challenges in a New Environment. *Biology*, 10(11), 1190.
Impact Factor: 5.168
DOI: <https://doi.org/10.3390/biology10111190>
Quartile: 1
Editorial: MDPI
ISSN: 2079-7737
20. Rivas Y, Retamal-Salgado J, Knicker H, Matus F, Rivera D. 2021. Neutral Sugar Content and Composition as a Sensitive Indicator of Fire Severity in the Andisols of an Araucaria–Nothofagus Forest in Southern Chile. *Sustainability*, 13(21), 12061.
Impact Factor: 3.889
DOI: <https://doi.org/10.3390/su132112061>
Quartile: 2
Editorial: MDPI
ISSN: 2071-1050
21. Jofré I, Matus F, Mendoza D, Nájera F, Merino C. 2021. Manganese-Oxidizing Antarctic Bacteria (Mn-Oxb) Release Reactive Oxygen Species (ROS) as Secondary Mn(II) Oxidation Mechanisms to Avoid Toxicity. *Biology*, 10(10), 1004.
Impact Factor: 5.168
DOI: <https://doi.org/10.3390/biology10101004>
Quartile: 1
Editorial: MDPI
ISSN: 2079-7737
22. Merino C, Jofré I, Matus F. 2021. Soil Redox Controls CO₂, CH₄ and N₂O Efflux from White-Rot Fungi in Temperate Forest Ecosystems. *Journal of Fungi*, 7(8), 621.
Impact Factor: 5.724
DOI: <https://doi.org/10.3390/jof7080621>
Quartile: 1
Editorial: MDPI
ISSN: 2309-608X
23. Stock SC, Koester M, Boy J, Godoy R, Nájera F, Matus F, Merino C, Abdallah K, Leuschner C, Spielvogel S, Gorbushina AA, Kuzyakov Y, Dippold MA. 2021. Plant carbon investment in fine roots and arbuscular mycorrhizal fungi: A cross-biome study on nutrient acquisition strategies. *Science of The Total Environment*, 781, 146748.
Impact Factor: 10.754
DOI: <https://doi.org/10.1016/j.scitotenv.2021.146748>
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
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24. Matus FJ. 2021. Fine silt and clay content is the main factor defining maximal C and N accumulations in soils: a meta-analysis. *Scientific Reports*, 11(1), 6438.
Impact Factor: 4.997
DOI: <https://doi.org/10.1038/s41598-021-84821-6>
Quartile: 2
Editorial: Nature Publishing
ISSN: 2045-2322
25. Neculman R, Matus F, **Godoy R**, Mora M L, Rumpel C. 2021. Carbon Mineralization Controls in Top- and

- Subsoil Horizons of Two Andisols Under Temperate Old-Growth Rain Forest. *Journal of Soil Science and Plant Nutrition*, 21(1), 780–790.
Impact Factor: 3.600
DOI: <https://doi.org/10.1007/s42729-020-00400-0>
Quartile: 2
Editorial: Springer Publishing
ISSN: 0718-9508
26. Kohatsu MY, Lange CN, Pelegrino MT, Pieretti JC, Tortella G, Rubilar O, Batista BL, Seabra AB, Jesus TA de. 2021. Foliar spraying of biogenic CuO nanoparticles protects the defence system and photosynthetic pigments of lettuce (*Lactuca sativa*). *Journal of Cleaner Production*, 324, 129264.
Impact Factor: 11.072
DOI: <https://doi.org/10.1016/j.jclepro.2021.129264>
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 0959-6526
27. Parra B, Tortella G, Dechesne A, **Martínez M.** 2021. Conjugal transfer of catabolic plasmids by damaged bacterial cells: Rescuing genes for pesticide biodegradation. *International Biodegradation & Biodegradation*, 159, 105186.
Impact Factor: 4.907
DOI: <https://doi.org/10.1016/j.ibiod.2021.105186>
Quartile: 2
Editorial: Elsevier Science BV, Netherlands
ISSN: 0964-8305
28. Kohatsu MY, Pelegrino MT, Monteiro LR, Freire BM, Pereira RM, Fincheira P, Rubilar O, Tortella G, Batista BL, de Jesus TA, Seabra AB, Lange CN. 2021. Comparison of foliar spray and soil irrigation of biogenic CuO nanoparticles (NPs) on elemental uptake and accumulation in lettuce. *Environmental Science and Pollution Research*, 28(13), 16350–16367.
Impact Factor: 5.190
DOI: <https://doi.org/10.1007/s11356-020-12169-x>
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Editorial: Springer Publishing
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29. Juárez-Maldonado A, Tortella G, Rubilar O, Fincheira P, Benavides-Mendoza A. 2021. Biostimulation and toxicity: The magnitude of the impact of nanomaterials in microorganisms and plants. *Journal of Advanced Research*, 31, 113–126.
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DOI: <https://doi.org/10.1016/j.jare.2020.12.011>
Quartile: 1
Editorial: Elsevier Science BV, Netherlands
ISSN: 2090-1232
30. Durán P, Tortella G, Sadowsky MJ, Viscardi S, Barra PJ, Mora M de la L. 2021. Engineering Multigenerational Host-Modulated Microbiota against Soilborne Pathogens in Response to Global Climate Change. *Biology*, 10(9), 865.
Impact Factor: 5.168
DOI: <https://doi.org/10.3390/biology10090865>
Quartile: 1
Editorial: MDPI
ISSN: 2079-7737
31. Tortella G, Rubilar O, Fincheira P, Pieretti JC, Duran P, Lourenço IM, Seabra AB. 2021. Bactericidal and Virucidal Activities of Biogenic Metal-Based Nanoparticles: Advances and Perspectives. *Antibiotics*, 10(7), 783.
Impact Factor: 5.222

- DOI: <https://doi.org/10.3390/antibiotics10070783>
Quartile: 1
Editorial: MDPI
ISSN: 2079-6382
32. Pelegrino MT, Pieretti JC, Lange CN, Kohatsu MY, Freire BM, Batista BL, Fincheira P, Tortella GR, Rubilar O, Seabra AB. 2021. Foliar spray application of CuO nanoparticles (NPs) and S-nitrosoglutathione enhances productivity, physiological and biochemical parameters of lettuce plants. *Journal of Chemical Technology & Biotechnology*, 96(8), 2185–2196.
Impact Factor: 3.709
DOI: <https://doi.org/10.1002/jctb.6677>
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Editorial: John Wiley & Sons Ltd
ISSN: 0268-2575
33. Tortella GR, Seabra AB, Padrão J, Díaz-San Juan R. 2021. Mindfulness and Other Simple Neuroscience-Based Proposals to Promote the Learning Performance and Mental Health of Students during the COVID-19 Pandemic. *Brain Sciences*, 11(5), 552.
Impact Factor: 3.333
DOI: <https://doi.org/10.3390/brainsci11050552>
Quartile: 3
Editorial: MPDI
ISSN: 2076-3425
34. Hermosilla E, Seabra AB, Lourenço IM, Ferreira FF, Tortella G, Rubilar O. 2021. Highly sensitive oxidation of MBTH/DMAB by MnFe₂O₄ nanoparticles as a promising method for nanozyme-based sensor development. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 621, 126585.
Impact Factor: 5.518
DOI: <https://doi.org/10.1016/j.colsurfa.2021.126585>
Quartile: 2
Editorial: Elsevier Science BV, Netherlands
ISSN: 0927-7757
35. Homero U, Tortella G, Sandoval E, Cuozzo SA. 2021. Extracellular Polymeric Substances (EPS) produced by Streptomyces sp. biofilms: Chemical composition and anticancer properties. *Microbiological Research*, 253, 126877.
Impact Factor: 5.070
DOI: <https://doi.org/10.1016/j.micres.2021.126877>
Quartile: 2
Editorial: Elsevier Science BV, Netherlands
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36. Tortella GR, Pieretti JC, Rubilar O, Fernández-Baldo M, Benavides-Mendoza A, Diez MC, Seabra AB. (2022). Silver, copper and copper oxide nanoparticles in the fight against human viruses: progress and perspectives. *Critical Reviews in Biotechnology*, 42(3), 431–449.
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37. **Levio-Raiman M**, Schalchli H, Briceño G, Bornhardt C, Tortella G, Rubilar O, Cristina Diez M. 2021. Performance of an optimized fixed-bed column packed with an organic biomixture to remove atrazine from aqueous solution. *Environmental Technology & Innovation*, 21, 101263.
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38. Cisternas C, Tortella G, Seabra AB, Pieretti JC, Araya-Castro K, Hermosilla E, Cristina Diez M, Rubilar O. 2021. Development of a new biomimetic method for the synthesis of silver nanoparticles based on fungal metabolites: optimization and antibacterial activity. *Journal of Chemical Technology & Biotechnology*, 96(7), 1981–1990.
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39. Bocaz-Beltrán J, Rocha S, Pinto-Ibieta F, Ciudad G, Cea M. 2021. Novel alternative recovery of polyhydroxyalkanoates from mixed microbial cultures using microwave-assisted extraction. *Journal of Chemical Technology & Biotechnology*, 96(9), 2596–2603.
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40. Pinto-Ibieta F, Serrano A, Cea M, Ciudad G, Fermoso FG. 2021. Beyond PHA: Stimulating intracellular accumulation of added-value compounds in mixed microbial cultures. *Bioresource Technology*, 337, 125381.
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41. Cabrera-Castillo EH, Castillo I, Ciudad G, Jeison D, Ortega-Bravo JC. 2021. FO-MD setup analysis for acid mine drainage treatment in Chile: An experimental-theoretical economic assessment compared with FO-RO and single RO. *Desalination*, 514, 115164.
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Editorial: Elsevier Science BV, Netherlands
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42. Araya-Castro K, Chao TC, Durán-Vinet B, Cisternas C, Ciudad G, Rubilar O. (2020). Green Synthesis of Copper Oxide Nanoparticles Using Protein Fractions from an Aqueous Extract of Brown Algae *Macrocystis pyrifera*. *Processes*, 9(1), 78.
Impact Factor: 3.352
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Quartile: 2
Editorial: MDPI
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43. Contreras P, Zamorano M, Ulloa-Rodríguez P, Beltrán JF, Risopatron J, Figueroa E, Valdebenito I, Farias JG. (2022). Diversity of chromatin condensation patterns, nuclear reorganization, evolution and phylogenetic distribution of sperm nuclear basic proteins in fish. *Reviews in Fish Biology and Fisheries*, 32(2), 331–355.
Impact Factor: 6.845
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44. Beltrán JF, Zamorano M, Belén LH, Risopatrón J, Valdebenito I, **Norambuena JA**, Farias JA, Farias JG. 2021. A differential proteomic study reveals the downregulation of several plasma membrane Ca²⁺-binding proteins in the sperm of Atlantic salmon (*Salmo salar*) following cold storage. *Aquaculture*, 545, 737211.
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45. Sandoval-Vargas L, **Dumorné K**, Contreras P, Farías JG, Figueroa E, Risopatrón J, Valdebenito I. 2021. Cryopreservation of coho salmon sperm (*Oncorhynchus kisutch*): Effect on sperm function, oxidative stress and fertilizing capacity. *Aquaculture*, 533, 736151.
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46. Herrera-Bravo J, Herrera Belén L, Farias JG, Beltrán JF. 2021. TAP 1.0: A robust immunoinformatic tool for the prediction of tumor T-cell antigens based on AAindex properties. *Computational Biology and Chemistry*, 91, 107452.
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47. Beltrán JF, Figueiras-Fierro D, Zamorano M, Belén LH, Risopatrón J, Valdebenito I, **Norambuena J-A**, Farias JG. 2021. Role of three plasma membrane Ca²⁺-binding proteins in the sperm motility of Atlantic salmon (*Salmo salar*). *Aquaculture*, 538, 736537.
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48. Sandoval-Vargas L, Risopatrón J, **Dumorne K**, Farías J, Figueroa E, Valdebenito I. (2022). Spermatology and sperm ultrastructure in farmed coho salmon (*Oncorhynchus kisutch*). *Aquaculture*, 547, 737471.
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49. Zamorano M, Castillo RL, Beltran JF, Herrera L, Farias JA, Antileo C, Aguilar-Gallardo C, Pessoa A, Calle Y, Farias JG. 2021. Tackling Ischemic Reperfusion Injury With the Aid of Stem Cells and Tissue Engineering. *Frontiers in Physiology*, 12.
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Editorial: Frontiers Media SA, Switzerland
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50. Astorga-Elo M, Gonzalez S, Acuña JJ, Sadowsky MJ, Jorquera MA. 2021. Rhizobacteria from 'flowering desert' events contribute to the mitigation of water scarcity stress during tomato seedling germination and growth. *Scientific Reports*, 11(1), 13745.
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51. Valenzuela T, **Rilling JI**, Larama G, Acuña JJ, Campos M, Inostroza NG, Araya M, Altamirano K, Fujiyoshi S, Yarimizu K, Maruyama F, Jorquera MA. 2021. 16S rRNA-Based Analysis Reveals Differences in the Bacterial Community Present in Tissues of *Choromytilus chorus* (Mytilidae, Bivalvia) Grown in an Estuary and a Bay in Southern Chile. *Diversity*, 13(5), 209.
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52. González-González S, Astorga-Eló M, Campos M, Wick LY, Acuña JJ, Jorquera MA. 2021. Compost Fungi Allow for Effective Dispersal of Putative PGP Bacteria. *Agronomy*, 11(8), 1567.
Impact Factor: 3.949
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53. Campos M, **Rilling JI**, Acuña JJ, Valenzuela T, Larama G, Peña-Cortés F, Ogram A, Jaisi DP, Jorquera MA. 2021. Spatiotemporal variations and relationships of phosphorus, phosphomonoesterases, and bacterial communities in sediments from two Chilean rivers. *Science of The Total Environment*, 776, 145782.
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DOI: <https://doi.org/10.1016/j.scitotenv.2021.145782>
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54. Yévenes M, Quiroz M, Maruyama F, Jorquera M, Gajardo G. 2021. Vibrio sp. ArtGut-C1, a polyhydroxybutyrate producer isolated from the gut of the aquaculture live diet Artemia (Crustacea). *Electronic Journal of Biotechnology*, 49, 22–28.
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DOI: <https://doi.org/10.1016/j.ejbt.2020.10.003>
Quartile: 3
Editorial: Elsevier Science BV, Netherlands
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55. Rilling, J. I., Maruyama, F., Sadowsky, M. J., Acuña, J. J., & Jorquera, M. A. 2021. CRISPR loci-PCR as Tool for Tracking Azospirillum sp. Strain B510. *Microorganisms*, 9(7), 1351.
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