

MATERIAL SUPLEMENTARIO 2

LISTA DE ESTUDIOS RECOPIRADOS

Aclaración: cada estudio se encuentra georreferenciado en el Material Suplementario-Figura S2. Para visualizarlo correctamente se debe ampliar la imagen.

1 - Becerra, A. G., Diván, A., & Renison, D. (2019). Bare soil cover and arbuscular mycorrhizal community in the first montane forest restoration in Central Argentina. *Restoration Ecology*, 27(4), 804-812.

2 - Truong, C., Gabbarini, L. A., Corrales, A., Mujic, A. B., Escobar, J. M., Moretto, A., & Smith, M. E. (2019). Ectomycorrhizal fungi and soil enzymes exhibit contrasting patterns along elevation gradients in southern Patagonia. *New Phytologist*, 222(4), 1936-1950.

3 - Eliades, L. A., Cabello, M. N., Pancotto, V., Moretto, A., Ferreri, N. A., Saparrat, M. C., & Barrera, M. D. (2019). Soil mycobiota under managed and unmanaged forests of *Nothofagus pumilio* in Tierra del Fuego, Argentina. *New Zealand Journal of Forestry Science*, 49.

4 - Colombo, R. P., Benavidez, M. E., Bidondo, L. F., Silvani, V. A., Bompadre, M. J., Statello, M., ... & Godeas, A. M. (2020). Arbuscular mycorrhizal fungi in heavy metal highly polluted soil in the Riachuelo river basin Arbuscular mycorrhizal fungi in heavy metal highly polluted soil. *Revista argentina de microbiología*, 52(2), 91-100.

5 - Urcelay, C., Longo, S., Geml, J., & Tecco, P. A. (2019). Can arbuscular mycorrhizal fungi from non-invaded montane ecosystems facilitate the growth of alien trees?. *Mycorrhiza*, 29, 39-49.

6 - Saito, R. D., Connell, L., Rodriguez, R., Redman, R., Libkind, D., & de Garcia, V. (2018). Metabarcoding analysis of the fungal biodiversity associated with Castaño Overa glacier–Mount Tronador, Patagonia, Argentina. *Fungal Ecology*, 36, 8-16.

7 - Ambrosino, M. L., Cabello, M. N., Busso, C. A., Velázquez, M. S., Torres, Y. A., Cardillo, D. S., ... & Rodriguez, G. (2018). Communities of arbuscular mycorrhizal fungi associated with perennial grasses of different forage quality exposed to defoliation. *Journal of Arid Environments*, 154, 61-69.

8 - Nouhra, E. R., Soteras, M. F., Pastor, N., & Geml, J. (2018). Richness, species composition and functional groups in Agaricomycetes communities along a vegetation and elevational gradient in the Andean Yungas of Argentina. *Biodiversity and Conservation*, 27, 1849-1871.

9 - de León, D. G., Cantero, J. J., Moora, M., Öpik, M., Davison, J., Vasar, M., ... & Zobel, M. (2018). Soybean cultivation supports a diverse arbuscular mycorrhizal fungal community in central Argentina. *Applied Soil Ecology*, 124, 289-297.

10 - Silvani, V. A., Colombo, R. P., Scorza, M. V., Fernandez Bidondo, L., Rothen, C. P., Scotti, A., ... & Godeas, A. (2017). Arbuscular mycorrhizal fungal diversity in high-

altitude hypersaline Andean wetlands studied by 454-sequencing and morphological approaches. *Symbiosis*, 72, 143-152.

11 - Menoyo, E., Lugo, M. A., Teste, F. P., & Ferrero, M. A. (2017). Grass dominance drives rhizospheric bacterial communities in a desertic shrub and grassy steppe highland. *Pedobiologia*, 62, 36-40.

12 - Wicaksono, C. Y., Aguirre-Guiterrez, J., Nouhra, E., Pastor, N., Raes, N., Pacheco, S., & Geml, J. (2017). Contracting montane cloud forests: a case study of the Andean alder (*Alnus acuminata*) and associated fungi in the Yungas. *Biotropica*, 49(2), 141-152.

13 - Bergottini, V. M., Hervé, V., Sosa, D. A., Otegui, M. B., Zapata, P. D., & Junier, P. (2017). Exploring the diversity of the root-associated microbiome of *Ilex paraguariensis* St. Hil. (Yerba Mate). *Applied Soil Ecology*, 109, 23-31.

14 - Gazol, A., Zobel, M., Cantero, J. J., Davison, J., Esler, K. J., Jairus, T., ... & Moora, M. (2016). Impact of alien pines on local arbuscular mycorrhizal fungal communities – evidence from two continents. *FEMS microbiology ecology*, 92(6), fiw073.

15 - Islas, A. T., Guijarro, K. H., Eyherabide, M., Rozas, H. S., Echeverria, H. E., & Covacevich, F. (2016). Can soil properties and agricultural land use affect arbuscular mycorrhizal fungal communities indigenous from the Argentinean Pampas soils?. *Applied Soil Ecology*, 101, 47-56.

16 - Frasier, I., Noellemeyer, E., Figuerola, E., Erijman, L., Permingeat, H., & Quiroga, A. (2016). High quality residues from cover crops favor changes in microbial community and enhance C and N sequestration. *Global ecology and conservation*, 6, 242-256.

17 - D'Acunto, L., Semmartin, M., & Ghersa, C. M. (2016). Uncultivated margins are source of soil microbial diversity in an agricultural landscape. *Agriculture, Ecosystems & Environment*, 220, 1-7.

18 - Orio, A. G. A., Brücher, E., & Ducasse, D. A. (2016). Switching between monocot and dicot crops in rotation schemes of Argentinean productive fields results in an increment of arbuscular mycorrhizal fungi diversity. *Applied Soil Ecology*, 98, 121-131.

19 - Olivera, N. L., Prieto, L., Bertiller, M. B., & Ferrero, M. A. (2016). Sheep grazing and soil bacterial diversity in shrublands of the Patagonian Monte, Argentina. *Journal of Arid Environments*, 125, 16-20.

20 - Gallo, A. L., Robledo, G., Landi, M., & Urcelay, C. (2015). Evaluación de la restauración de la diversidad fúngica en un área reforestada con *Polylepis australis* (Rosaceae): un estudio de caso. *Ecología austral*, 25(3), 192-203.

21 - Fernández, L. A., Agaras, B., Wall, L. G., & Valverde, C. (2015). Abundance and ribotypes of phosphate-solubilizing bacteria in Argentinean agricultural soils under no-till management. *Annals of Microbiology*, 65, 1667-1678.

- 22 - Montecchia, M. S., Tosi, M., Soria, M. A., Vogrig, J. A., Sydorenko, O., & Correa, O. S. (2015). Pyrosequencing reveals changes in soil bacterial communities after conversion of Yungas forests to agriculture. *PloS one*, 10(3), e0119426.
- 23 - Vega-Avila, A. D., Gumiere, T., Andrade, P. A. M., Lima-Perim, J. E., Durrer, A., Baigori, M., ... & Andreote, F. D. (2015). Bacterial communities in the rhizosphere of *Vitis vinifera* L. cultivated under distinct agricultural practices in Argentina. *Antonie Van Leeuwenhoek*, 107, 575-588.
- 24 - Figuerola, E. L., Guerrero, L. D., Türkowsky, D., Wall, L. G., & Erijman, L. (2015). Crop monoculture rather than agriculture reduces the spatial turnover of soil bacterial communities at a regional scale. *Environmental Microbiology*, 17(3), 678-688.
- 25 - Carbonetto, B., Rascovan, N., Álvarez, R., Mentaberry, A., & Vázquez, M. P. (2014). Structure, composition and metagenomic profile of soil microbiomes associated to agricultural land use and tillage systems in Argentine Pampas. *PloS one*, 9(6), e99949.
- 26 - Longo, S., Nouhra, E., Goto, B. T., Berbara, R. L., & Urcelay, C. (2014). Effects of fire on arbuscular mycorrhizal fungi in the Mountain Chaco Forest. *Forest Ecology and Management*, 315, 86-94.
- 27 - Colombo, R. P., Fernandez Bidondo, L., Silvani, V. A., Carbonetto, M. B., Rascovan, N., Bompadre, M. J., ... & Godeas, A. M. (2014). Diversity of arbuscular mycorrhizal fungi in soil from the Pampa Ondulada, Argentina, assessed by pyrosequencing and morphological techniques. *Canadian Journal of Microbiology*, 60(12), 819-827.
- 28 - Rivero Mega, M. S., Crespo, E. M., Molina, M. G., & Lugo, M. A. (2014). Diversidad diferencial de esporas de Glomeromycota en la rizosfera de bromeliáceas nativas del Parque Nacional Sierra de las Quijadas (San Luis, Argentina).
- 29 - Becerra, A., Bartoloni, N., Cofré, N., Soteras, F., & Cabello, M. (2014). Arbuscular mycorrhizal fungi in saline soils: Vertical distribution at different soil depth. *Brazilian Journal of Microbiology*, 45, 585-594.
- 30 - Geml, J., Pastor, N., Fernandez, L., Pacheco, S., Semenova, T. A., Becerra, A. G., ... & Nouhra, E. R. (2014). Large-scale fungal diversity assessment in the Andean Yungas forests reveals strong community turnover among forest types along an altitudinal gradient. *Molecular ecology*, 23(10), 2452-2472.
- 31 - Velázquez, M. S., Cabello, M. N., & Barrera, M. (2013). Composition and structure of arbuscular-mycorrhizal communities in El Palmar National Park, Argentina. *Mycologia*, 105(3), 509-520.
- 32 - Soteras, F., Cofré, N., Bartoloni, J., Cabello, M., & Becerra, A. (2013). Hongos arbusculares (glomeromycota) en la rizosfera de *Atriplex lampa* en dos ambientes salinos de Córdoba: influencia de la profundidad en la colonización radical y presencia de morfoespecies. *Boletín de la Sociedad Argentina de Botánica*, 48(2), 0-0.

- 33 - Nouhra, E., Urcelay, C., Longo, S., & Tedersoo, L. (2013). Ectomycorrhizal fungal communities associated to *Nothofagus* species in Northern Patagonia. *Mycorrhiza*, 23(6), 487-496.
- 34 - Rascovan, N., Carbonetto, B., Revale, S., Reinert, M. D., Alvarez, R., Godeas, A. M., ... & Vazquez, M. P. (2013). The PAMPA datasets: a metagenomic survey of microbial communities in Argentinean pampean soils. *Microbiome*, 1, 1-6.
- 35 - Figuerola, E. L., Guerrero, L. D., Rosa, S. M., Simonetti, L., Duval, M. E., Galantini, J. A., ... & Erijman, L. (2012). Bacterial indicator of agricultural management for soil under no-till crop production. *PloS one*, 7(11), e51075.
- 36 - Noe, L., Ascher, J., Ceccherini, M. T., Abril, A., & Pietramellara, G. (2012). Molecular discrimination of bacteria (organic versus mineral soil layers) of dry woodlands of Argentina. *Journal of arid environments*, 85, 18-26.
- 37 - Schmidt, S. K., Naff, C. S., & Lynch, R. C. (2012). Fungal communities at the edge: ecological lessons from high alpine fungi. *Fungal Ecology*, 5(4), 443-452.
- 38 - Grilli, G., Urcelay, C., & Galetto, L. (2012). Forest fragment size and nutrient availability: complex responses of mycorrhizal fungi in native–exotic hosts. *Plant Ecology*, 213, 155-165.
- 39 - Salgado Salomón, M. E., Barroetaveña, C., & Rajchenberg, M. (2011). Do pine plantations provide mycorrhizal inocula for seedlings establishment in grasslands from Patagonia, Argentina?. *New forests*, 41(2), 191-205.
- 40 - Longo, M. S., Urcelay, C., & Nouhra, E. (2011). Long term effects of fire on ectomycorrhizas and soil properties in *Nothofagus pumilio* forests in Argentina. *Forest ecology and management*, 262(3), 348-354.
- 41 - Urcelay, C., Diaz, S., Gurvich, D. E., Chapin III, F. S., Cuevas, E., & Dominguez, L. S. (2009). Mycorrhizal community resilience in response to experimental plant functional type removals in a woody ecosystem. *Journal of Ecology*, 97(6), 1291-1301.
- 42 - Menoyo, E., Renison, D., & Becerra, A. G. (2009). Arbuscular mycorrhizas and performance of *Polylepis australis* trees in relation to livestock density. *Forest Ecology and Management*, 258(12), 2676-2682.
- 43 - Allegrucci, N., Eliades, L., Bucsinszky, A. M., Cabello, M., & Arambarri, A. (2007). Diversidad de Anamorfos de Ascomycota en bosques nativos de *Celtis tala* (Ulmaceae) en la Provincia de Buenos Aires, Argentina. *Boletín de la Sociedad Argentina de Botánica*, 42(1-2), 79-86.
- 44 - Gomez, E., Pioli, R., & Conti, M. (2007). Fungal abundance and distribution as influenced by clearing and land use in a vertic soil of Argentina. *Biology and Fertility of soils*, 43, 373-377.

- 45 - Taurian, T., Ibanez, F., Fabra, A., & Aguilar, O. M. (2006). Genetic diversity of rhizobia nodulating *Arachis hypogaea* L. in central Argentinean soils. *Plant and soil*, 282, 41-52.
- 46 - Diosma, G., Aulicino, M., Chidichimo, H., & Balatti, P. A. (2006). Effect of tillage and N fertilization on microbial physiological profile of soils cultivated with wheat. *Soil and Tillage Research*, 91(1-2), 236-243.
- 47 - Nesci, A., Barros, G., Castillo, C., & Etcheverry, M. (2006). Soil fungal population in preharvest maize ecosystem in different tillage practices in Argentina. *Soil and Tillage Research*, 91(1-2), 143-149.
- 48 - Schalamuk, S., Velazquez, S., Chidichimo, H., & Cabello, M. (2006). Fungal spore diversity of arbuscular mycorrhizal fungi associated with spring wheat: effects of tillage. *Mycologia*, 98(1), 16-22.
- 49 - Becerra, A., Zak, M. R., Horton, T. R., & Micolini, J. (2005). Ectomycorrhizal and arbuscular mycorrhizal colonization of *Alnus acuminata* from Calilegua National Park (Argentina). *Mycorrhiza*, 15, 525-531.
- 50 - Bettucci, L., Malvarez, I., Dupont, J., Bury, E., & Roquebert, M. F. (2002). Paraná river delta wetlands soil microfungi. *Pedobiologia*, 46(6), 606-623.
- 51 - Cabello, M., & Arambarri, A. (2002). Diversity in soil fungi from undisturbed and disturbed *Celtis tala* and *Scutia buxifolia* forests in the eastern Buenos Aires province (Argentina). *Microbiological research*, 157(2), 115-125.
- 52 - Aguilar, O. M., López, M. V., & Riccillo, P. M. (2001). The diversity of rhizobia nodulating beans in Northwest Argentina as a source of more efficient inoculant strains. *Journal of biotechnology*, 91(2-3), 181-188.
- 53 - Menéndez, A. B., Scervino, J. M., & Godeas, A. M. (2001). Arbuscular mycorrhizal populations associated with natural and cultivated vegetation on a site of Buenos Aires province, Argentina. *Biology and Fertility of Soils*, 33, 373-381.
- 54 - De Garcia, V., Zalar, P., Brizzio, S., Gunde-Cimerman, N., & Van Broock, M. (2012). Cryptococcus species (Tremellales) from glacial biomes in the southern (Patagonia) and northern (Svalbard) hemispheres. *FEMS microbiology ecology*, 82(2), 523-539.
- 55 - Frene, J. P., Faggioli, V., Covelli, J., Reyna, D., Gabbarini, L. A., Sobrero, P., ... & Wall, L. G. (2022). Agriculture by irrigation modifies microbial communities and soil functions associated with enhancing C uptake of a steppe semi-arid soil in northern Patagonia. *Frontiers in Soil Science*, 2, 835849.
- 56 - Ibarra, J. G., Colombo, R. P., Godeas, A. M., & López, N. I. (2020). Analysis of soil bacterial communities associated with genetically modified drought-tolerant corn. *Applied Soil Ecology*, 146, 103375.

- 57 - Soterias, F., Moreira, B. C., Grilli, G., Pastor, N., Mendes, F. C., Mendes, D. R., ... & Becerra, A. (2016). Arbuscular mycorrhizal fungal diversity in rhizosphere spores versus roots of an endangered endemic tree from Argentina: Is fungal diversity similar among forest disturbance types?. *Applied Soil Ecology*, 98, 272-277.
- 58 - Lugo, M. A., Ferrero, M., Menoyo, E., Estévez, M. C., Siñeriz, F., & Antón, A. (2008). Arbuscular mycorrhizal fungi and rhizospheric bacteria diversity along an altitudinal gradient in South American Puna grassland. *Microbial ecology*, 55, 705-713.
- 59 - Covacevich, F., Hernández Guijarro, K., Crespo, E. M., Lumini, E., Rivero Mega, M. S., & Lugo, M. A. (2021). Arbuscular mycorrhizal fungi from argentinean highland puna soils unveiled by propagule multiplication. *Plants*, 10(9), 1803.
- 60 - El Mujtar, V. A., Gregorutti, V. C., Ecclesia, R. P., Wingeyer, A., Lezana, L., Canavelli, S. B., & Tiftonell, P. (2021). Assessing soil microbial biodiversity as affected by grazing and woody vegetation cover in a temperate savannah. *Annals of Applied Biology*, 179(2), 231-245.
- 61 - Vázquez, S., Monien, P., Minetti, R. P., Jürgens, J., Curtosi, A., Primitz, J. V., ... & Helmke, E. (2017). Bacterial communities and chemical parameters in soils and coastal sediments in response to diesel spills at Carlini Station, Antarctica. *Science of the Total Environment*, 605, 26-37.
- 62 - Talia, P., Sede, S. M., Campos, E., Rorig, M., Principi, D., Tosto, D., ... & Cataldi, A. (2012). Biodiversity characterization of cellulolytic bacteria present on native Chaco soil by comparison of ribosomal RNA genes. *Research in microbiology*, 163(3), 221-232.
- 63 - Romano, G. M., Calcagno, J. A., & Lechner, B. E. (2013). Biodiversity of Agaricomycetes basidiomes associated to *Salix* and *Populus* (Salicaceae) plantations. *Darwiniana, nueva serie*, 1(1), 67-75.
- 64 - Draghi, W. O., Degrossi, J., Bialer, M., Brelles-Marino, G., Abdian, P., Soler-Bistue, A., ... & Zorreguieta, A. (2018). Biodiversity of cultivable *Burkholderia* species in Argentinean soils under no-till agricultural practices. *PLoS One*, 13(7), e0200651.
- 65 - Giusiano, G. E., Piontelli, E., Fernández, M. S., Mangiaterra, M. L., Cattana, M. E., Kocsubé, S., & Varga, J. (2017). Biodiversity of species of *Aspergillus* section *Fumigati* in semi-desert soils in Argentina. *Revista Argentina de microbiologia*, 49(3), 247-254.
- 66 - Milani, T., Hoeksema, J. D., Jobbágy, E. G., Rojas, J. A., Vilgalys, R., & Teste, F. P. (2022). Co-invading ectomycorrhizal fungal succession in pine-invaded mountain grasslands. *Fungal Ecology*, 60, 101176.
- 67 - Urcelay, C., Longo, S., Geml, J., Tecco, P. A., & Nouhra, E. (2017). Co-invasive exotic pines and their ectomycorrhizal symbionts show capabilities for wide distance and altitudinal range expansion. *Fungal ecology*, 25, 50-58.
- 68 - Geml, J., Arnold, A. E., Semenova-Nelsen, T. A., Nouhra, E. R., Drechsler-Santos, E. R., Góes-Neto, A., ... & Lutzoni, F. (2022). Community dynamics of soil-borne fungal

communities along elevation gradients in neotropical and palaeotropical forests. *Molecular Ecology*, 31(7), 2044-2060.

69 - Ontivero, R. E., Risio Allione, L. V., Castellarini, F., & Lugo, M. A. (2023). Composición de las comunidades de hongos micorrícicos arbusculares en diferentes usos de suelo en el Caldenal, Argentina.

70 - Ontivero, R. E., Risio Allione, L. V., Castellarini, F., & Lugo, M. A. (2023). Composición de las comunidades de hongos micorrícicos arbusculares en diferentes usos de suelo en el Caldenal, Argentina.

71 - Moreno, M. V., Casas, C., Biganzoli, F., Manso, L., Silvestro, L. B., Moreira, E., & Stenglein, S. A. (2021). Cultivable soil fungi community response to agricultural management and tillage system on temperate soil. *Journal of the Saudi Society of Agricultural Sciences*, 20(4), 217-226.

72 - Sagadin, M. B., Monteoliva, M. I., Luna, C. M., & Cabello, M. N. (2018). Diversidad e infectividad de hongos micorrícicos arbusculares nativos provenientes de algarrobales del Parque Chaqueño argentino con características edafoclimáticas contrastantes. *AgriScientia*, 35(2), 19-33.

73 - Marcos Valle, F., Moreno, V., Silvestro, L., Castellari, C., Diaz Delfino, A., Andreoli, Y., & Picone, L. (2019). Diversidad fúngica en suelos con diferentes usos en la región Pampeana Argentina. *Chilean journal of agricultural & animal sciences*, 35(2), 163-172.

74 - Velázquez, M. S., Fabisik, J. C., Barrera, M., Allegrucci, N., Valdés, F. E., Abarca, C. L., & Cabello, M. (2020). Diversity and abundance of arbuscular mycorrhizal fungi (Glomeromycota) associated with *Ilex paraguayensis* in Northeastern Argentina. *Revista de Biología Tropical*, 68(4), 1231-1240.

75 - Mestre, M. C., Fontenla, S., & Rosa, C. A. (2014). Ecology of cultivable yeasts in pristine forests in northern Patagonia (Argentina) influenced by different environmental factors. *Canadian journal of microbiology*, 60(6), 371-382.

76 - Fernandez, N. V., Marchelli, P., Gherghel, F., Kost, G., & Fontenla, S. B. (2015). Ectomycorrhizal fungal communities in *Nothofagus nervosa* (Raulí): a comparison between domesticated and naturally established specimens in a native forest of Patagonia, Argentina. *fungus ecology*, 18, 36-47.

77 - Truong, C., Gabbarini, L. A., Moretto, A., Escobar, J. M., & Smith, M. E. (2024). Ectomycorrhizal fungi and the nitrogen economy of *Nothofagus* in southern Patagonia. *Ecology and Evolution*, 14(10), e70299.

78 - Borda, V., Cofré, M. N., Longo, S., Grilli, G., & Urcelay, C. (2020). El "siempreverde" (*Ligustrum lucidum*), ¿Altera la composición de las comunidades de hongos micorrícicos arbusculares en el Chaco Serrano?. *Ecología Austral*, 30(2), 282-294.

79 - Barberis, M. G., Giaj Merlera, G., Reynoso, M. M., Chulze, S. N., & Torres, A. M. (2014). Factors affecting distribution and abundance of *Aspergillus* section Nigri in

vineyard soils from grapevine growing regions of Argentina. *Journal of the Science of Food and Agriculture*, 94(14), 3001-3007.

80 - Fernandez, R. D., Bulacio, N., Álvarez, A., Pajot, H., & Aragón, R. (2017). Fungal decomposers of leaf litter from an invaded and native mountain forest of NW Argentina. *Antonie van Leeuwenhoek*, 110, 1207-1218.

81 - Renny, M., Acosta, M. C., Cofré, N., Domínguez, L. S., Bidartondo, M. I., & Sérsic, A. N. (2017). Genetic diversity patterns of arbuscular mycorrhizal fungi associated with the mycoheterotroph *Arachnitis uniflora* Phil.(Corsiaceae). *Annals of Botany*, 119(8), 1279-1294.

82 - Ontivero, R. E., Voyron, S., Allione, L. V. R., Bianco, P., Bianciotto, V., Iriarte, H. J., ... & Lumini, E. (2020). Impact of land use history on the arbuscular mycorrhizal fungal diversity in arid soils of Argentinean farming fields. *FEMS Microbiology Letters*, 367(14), fnaa114.

83 - Rivas, G. A., Guillade, A. C., Semorile, L. C., & Delfederico, L. (2021). Influence of climate on soil and wine bacterial diversity on a vineyard in a non-traditional wine region in Argentina. *Frontiers in Microbiology*, 12, 726384.

84 - Oyuela Aguilar, M., Gobbi, A., Browne, P. D., Ellegaard-Jensen, L., Hansen, L. H., Semorile, L., & Pistorio, M. (2020). Influence of vintage, geographic location and cultivar on the structure of microbial communities associated with the grapevine rhizosphere in vineyards of San Juan Province, Argentina. *PLoS One*, 15(12), e0243848.

85- Abarca, C., Barrera, M., Arturi, M., Allegrucci, N., & Velázquez, M. S. (2022). Invasion of *Celtis tala* forests by *Ligustrum lucidum* in Argentina: impact on soil properties and the arbuscular mycorrhizal fungi community. *Canadian Journal of Forest Research*, 52(2), 220-226.

86 - Noe, L., & Abril, A. (2013). Is the nitrification a redundant process in arid regions?: activity, abundance and diversity of nitrifier microorganisms. *Revista chilena de historia natural*, 86(3), 325-335.

87 - Viruel, E., Fontana, C. A., Puglisi, E., Nasca, J. A., Banegas, N. R., & Cocconcelli, P. S. (2022). Land-use change affects the diversity and functionality of soil bacterial communities in semi-arid Chaco region, Argentina. *Applied Soil Ecology*, 172, 104362.

88 - Grassi, E. M., Romano, G. M., & Schenone, N. F. (2016). Macrohongos presentes en un área de manejo regenerativo de bosque de Mata Atlántica (Misiones, Argentina). *Boletín de la Sociedad Argentina de Botánica*, 51(2), 223-233.

89 - Marcos, M. S., Bertiller, M. B., & Olivera, N. L. (2019). Microbial community composition and network analyses in arid soils of the Patagonian Monte under grazing disturbance reveal an important response of the community to soil particle size. *Applied Soil Ecology*, 138, 223-232.

- 90 - Rivas, G. A., Semorile, L., & Delfederico, L. (2022). Microbial diversity of the soil, rhizosphere and wine from an emerging wine-producing region of Argentina. *Lwt*, 153, 112429.
- 91 - Paolinelli, M., Martinez, L. E., Garcia Lampasona, S. C., Diaz Quirós, C., Belmonte, M., Ahumada, G., ... & Mercado, L. A. (2023). Microbiome in soils of Mendoza: microbial resources for the development of agroecological management in viticulture.
- 92 - Ferrero, M. A., Menoyo, E., Lugo, M. A., Negritto, M. A., Farías, M. E., Anton, A. M., & Siñeriz, F. (2010). Molecular characterization and in situ detection of bacterial communities associated with rhizosphere soil of high altitude native Poaceae from the Andean Puna region. *Journal of arid environments*, 74(10), 1177-1185.
- 93 - Becerra, A. G., Cabello, M. N., & Bartoloni, N. J. (2011). Native arbuscular mycorrhizal fungi in the Yungas forests, Argentina. *Mycologia*, 103(2), 273-279.
- 94 - Velázquez, S., & Cabello, M. (2011). Occurrence and diversity of arbuscular mycorrhizal fungi in trap cultures from El Palmar National Park soils. *European Journal of Soil Biology*, 47(4), 230-235.
- 95 - Velázquez, M. S., Stürmer, S. L., Bruzone, C., Fontenla, S., Barrera, M., & Cabello, M. (2016). Occurrence of arbuscular mycorrhizal fungi in high altitude sites of the Patagonian Altoandina region in Nahuel Huapi National Park (Argentina). *Acta Botanica Brasilica*, 30, 521-531.
- 96 - Vivanco, L., Rascovan, N., & Austin, A. T. (2018). Plant, fungal, bacterial, and nitrogen interactions in the litter layer of a native Patagonian forest. *PeerJ*, 6, e4754.
- 97 - Dudinszky, N., Cabello, M. N., Grimoldi, A. A., Schalamuk, S., & Golluscio, R. A. (2019). Role of grazing intensity on shaping arbuscular mycorrhizal fungi communities in Patagonian semiarid steppes. *Rangeland Ecology & Management*, 72(4), 692-699.
- 98 - Faggioli, V. S., Cabello, M. N., Grilli, G., Vasar, M., Covacevich, F., & Öpik, M. (2019). Root colonizing and soil borne communities of arbuscular mycorrhizal fungi differ among soybean fields with contrasting historical land use. *Agriculture, Ecosystems & Environment*, 269, 174-182.
- 99- Viruel, E., Fontana, C. A., Bassi, D., Puglisi, E., Radrizzani, A., Martinez Calsina, L., ... & Cocconcelli, P. S. (2021). Silvopastoral systems in dry Chaco, Argentina: Impact on soil chemical parameters and bacterial communities. *Soil use and management*, 37(4), 866-878.
- 100 - Floriani, F. D., El Mujtar, V., Mateo, C., Sola, G., Peñalba, M. G., Sbrancia, R., ... & Fernández, N. V. (2024). Site conditions shaped the effect of silvicultural management on the biodiversity of ectomycorrhizal fungi in mixed *Nothofagus* forests. *Forest Ecology and Management*, 563, 121981.

- 101 - Guijarro, K. H., Aparicio, V., De Gerónimo, E., Castellote, M., Figuerola, E. L., Costa, J. L., & Erijman, L. (2018). Soil microbial communities and glyphosate decay in soils with different herbicide application history. *Science of the Total Environment*, 634, 974-982.
- 102 - Grilli, G., Urcelay, C., Galetto, L., Davison, J., Vasar, M., Saks, Ü., ... & Öpik, M. (2015). The composition of arbuscular mycorrhizal fungal communities in the roots of a ruderal forb is not related to the forest fragmentation process. *Environmental Microbiology*, 17(8), 2709-2720.
- 103 - Bernardelli, C. E., Colman, D., Donati, E. R., & Urbietta, M. S. (2024). The First Description of the Microbial Diversity in the Amarillo River (La Rioja, Argentina), a Natural Extreme Environment Where the Whole Microbial Community Paints the Landscape Yellow. *Microorganisms*, 12(2), 235.
- 104 - Rosa, S. M., Kraemer, F. B., Soria, M. A., Guerrero, L. D., Morrás, H. J., Figuerola, E. L., & Erijman, L. (2014). The influence of soil properties on denitrifying bacterial communities and denitrification potential in no-till production farms under contrasting management in the Argentinean Pampas. *Applied Soil Ecology*, 75, 172-180.
- 105 - Carron, A. I., Garibaldi, L. A., Marquez, S., & Fontenla, S. (2020). The soil fungal community of native woodland in Andean Patagonian forest: A case study considering experimental forest management and seasonal effects. *Forest Ecology and Management*, 461, 117955.
- 106 - Trentini, C. P., Campanello, P. I., Villagra, M., Ferreras, J., & Hartmann, M. (2020). Thinning partially mitigates the impact of Atlantic forest replacement by pine monocultures on the soil microbiome. *Frontiers in microbiology*, 11, 1491.
- 107 - Salomón, M. E. S., Barroetaveña, C., Pildain, M. B., Williams, E. A., & Rajchenberg, M. (2018). What happens to the mycorrhizal communities of native and exotic seedlings when *Pseudotsuga menziesii* invades Nothofagaceae forests in Patagonia, Argentina?. *Acta Oecologica*, 91, 108-119.
- 108 - Cecilia Mestre, M., Rosa, C. A., Safar, S. V., Libkind, D., & Fontenla, S. B. (2011). Yeast communities associated with the bulk-soil, rhizosphere and ectomycorrhizosphere of a *Nothofagus pumilio* forest in northwestern Patagonia, Argentina. *FEMS microbiology ecology*, 78(3), 531-541.
- 109 - Cavello, I. A., Bezus, B., Martinez, A., Garmendia, G., Vero, S., & Cavalitto, S. (2019). Yeasts from Tierra Del Fuego Province (Argentina): biodiversity, characterization and bioprospection of hydrolytic enzymes. *Geomicrobiology Journal*, 36(9), 847-857.
- 110 - Ribero, M. N., Schiaffino, M. R., & Filloy, J. (2025). Grassland Afforestation Drives Biotic Homogenisation of Soil Microbial Communities at a Regional Scale. *Molecular Ecology*, 34(2), e17617.

- 111 - Martorell, M. M., Ruberto, L. A. M., Fernandez, P. M., De Figueroa, L. I. C., & Mac Cormack, W. P. (2019). Biodiversity and enzymes bioprospection of Antarctic filamentous fungi. *Antarctic Science*, 31(1), 3-12.
- 112 - Corvalán Videla, M., Taboada, M. D. L. A., & Aranibar, J. (2018). Diversidad de cianobacterias en costras biológicas de suelo de la ecorregión del Monte Central (Mendoza, Argentina). *Lilloa*, 55(2), 30-46.
- 113 - Öpik, M., Zobel, M., Cantero, J. J., Davison, J., Facelli, J. M., Hiiesalu, I., ... & Moora, M. (2013). Global sampling of plant roots expands the described molecular diversity of arbuscular mycorrhizal fungi. *Mycorrhiza*, 23, 411-430.
- 114 - Martínez, A. E., Chiocchio, V. M., & Godeas, A. M. (2001). Hyphomycetes celulolíticos en suelos de bosques de *Nothofagus*, Tierra del Fuego. *Gayana. Botánica*, 58(2), 123-132.
- 115 - Maestre, F. T., Delgado-Baquerizo, M., Jeffries, T. C., Eldridge, D. J., Ochoa, V., Gozalo, B., ... & Singh, B. K. (2015). Increasing aridity reduces soil microbial diversity and abundance in global drylands. *Proceedings of the National Academy of Sciences*, 112(51), 15684-15689.
- 116 - Rodriguez, J. M., Passo, A., & Chiapella, J. O. (2018). Lichen species assemblage gradient in South Shetlands Islands, Antarctica: relationship to deglaciation and microsite conditions. *Polar Biology*, 41, 2523-2531.
- 117 - Mataloni, G., & Tell, G. (2002). Microalgal communities from ornithogenic soils at Cierva Point, Antarctic Peninsula. *Polar Biology*, 25, 488-491.
- 118 - Fernandez-Gnecco, G., Smalla, K., Maccario, L., Sørensen, S. J., Barbieri, P., Consolo, V. F., ... & Babin, D. (2021). Microbial community analysis of soils under different soybean cropping regimes in the Argentinean south-eastern Humid Pampas. *FEMS Microbiology Ecology*, 97(3), fiab007.
- 119 - Nepote, V., Voyron, S., Soterias, F., Iriarte, H. J., Giovannini, A., Lumini, E., & Lugo, M. A. (2023). Modeling geographic distribution of arbuscular mycorrhizal fungi from molecular evidence in soils of Argentinean Puna using a maximum entropy approach. *PeerJ*, 11, e14651.
- 120 - Grilli, G., Cofré, N., Marro, N., Videla, M., & Urcelay, C. (2023). Shifts from conventional horticulture to agroecology impacts soil fungal diversity in Central Argentina. *Mycological Progress*, 22(3), 20.
- 121 - Gonçalves, V. N., Lirio, J. M., Coria, S. H., Lopes, F. A., Convey, P., de Oliveira, F. S., ... & Rosa, L. H. (2023). Soil fungal diversity and ecology assessed using DNA metabarcoding along a deglaciated chronosequence at Clearwater Mesa, James Ross Island, Antarctic Peninsula. *Biology*, 12(2), 275.

- 122 - Pascualat, A., Siebert, C., Garraza, G. C. G., Nenda, S. J., & Küppers, G. C. (2024). Terrestrial ciliate assemblages from Iguazú National Park (Argentina) under contrasting environmental scenarios. *Acta Protozoologica*, 63.
- 123 - Quiroga, M. V., Valverde, A., Mataloni, G., Casa, V., Stegen, J. C., & Cowan, D. (2022). The ecological assembly of bacterial communities in Antarctic wetlands varies across levels of phylogenetic resolution. *Environmental microbiology*, 24(8), 3486-3499.
- 124 - Martinez, A., Cavello, I., Garmendia, G., Rufo, C., Cavalitto, S., & Vero, S. (2016). Yeasts from sub-Antarctic region: biodiversity, enzymatic activities and their potential as oleaginous microorganisms. *Extremophiles*, 20, 759-769.
- 125 - Soteras, F., Grilli, G., Cofré, M. N., Marro, N., & Becerra, A. (2015). Arbuscular mycorrhizal fungal composition in high montane forests with different disturbance histories in central Argentina. *Applied Soil Ecology*, 85, 30-37.
- 126 - Lugo, M. A., González Maza, M. E., & Cabello, M. N. (2003). Arbuscular mycorrhizal fungi in a mountain grassland II: Seasonal variation of colonization studied, along with its relation to grazing and metabolic host type. *Mycologia*, 95(3), 407-415.
- 127 - Gabbarini, L. A., Figuerola, E., Frene, J. P., Robledo, N. B., Ibarbalz, F. M., Babin, D., ... & Wall, L. G. (2021). Impacts of switching tillage to no-tillage and vice versa on soil structure, enzyme activities and prokaryotic community profiles in Argentinean semi-arid soils. *FEMS Microbiology Ecology*, 97(4), fiab025.
- 128 - Eliades, L. A., Cabello, M. N., & Voget, C. E. (2006). Contribution to the study of alkalophilic and alkali-tolerant Ascomycota from Argentina. *Darwiniana*, 44(1), 64-73.
- 129 - Eliades, L., Bucsinzky, A. M., & Cabello, M. (2004). Micobiota alcalofílica y alcalinotolerante en suelos de bosques xericos en una localidad de la provincia de Buenos Aires, Argentina. *Boletín Micológico*, 19.
- 130 - Aon, M. A., Cabello, M. N., Sarena, D. E., Colaneri, A. C., Franco, M. G., Burgos, J. L., & Cortassa, S. (2001). I. Spatio-temporal patterns of soil microbial and enzymatic activities in an agricultural soil. *Applied Soil Ecology*, 18(3), 239-254.
- 131 - Becerra, A., Pritsch, K., Arrigo, N., Palma, M., & Bartoloni, N. (2005). Ectomycorrhizal colonization of *Alnus acuminata* Kunth in northwestern Argentina in relation to season and soil parameters. *Annals of Forest Science*, 62(4), 325-332.
- 132 - Cofré, M. N., Ferrari, A. E., Becerra, A., Domínguez, L., Wall, L. G., & Urcelay, C. (2017). Effects of cropping systems under no-till agriculture on arbuscular mycorrhizal fungi in Argentinean Pampas. *Soil Use and Management*, 33(2), 364-378.
- 133 - Hernandez Caffot, M. L., Pereyra, L. C., Robledo, G. L., & Domínguez, L. S. (2018). Ecology of gasteroid fungi (*Agaricomycetidae* and *Phallomycetidae*) affected by different successional stages of *Polylepis australis* Bitt. woodlands of Córdoba, central Argentina. *Nova Hedwigia*, 106(3-4), 455-472.