



## Publicaciones WoS (ISI) Doctorado y Magister en Ciencias de Recursos Naturales

**Año:** 2008

**Publicaciones Totales:** 70 Publicaciones Científicas/Scientific Publications

**Publicaciones Alumnos de Doctorado:** 23

**Publicaciones Alumnos de Magister:** 2

1. **Acevedo F.\***, M. Cea, S. Sanhueza, **M. Calabi\*** & M.C. Diez. 2008. Use of natural nanoclays as support material for manganese peroxidase immobilization. *Journal of Soil Science and Plant Nutrition* 8: 146.
2. Alvear, M., M. Astorga & F. Reyes. 2008. Efecto de los residuos vegetales provenientes de dos tratamientos silvícolas en una plantación de *Pinus radiata* D. Don sobre los cambios estacionales de las actividades biológicas del suelo. *Revista de las Ciencias del Suelo y Nutrición Vegetal* 8: 14-27.
3. Aravena, C., M.C. Diez, M.L. Mora, C. Valentin & F. Gallardo. 2008. Utilization of cellulose industry sludge and its effect on degraded soil physico-chemical properties. *Journal of Soil Science and Plant Nutrition* 7(1): 1-14.
4. Barrientos, L., M. Gidekel & A. Gutiérrez. 2008. Characterization of rhizospheric bacteria isolated from *Deschampsia antarctica* Desv. *World Journal of Microbiology and Biotechnology* 24(10): 2289-2296.
5. Bezama, A., R. Navia, G. Mendoza & R. Barra. 2008. Remediation technologies for organochlorine-contaminated sites in developing countries. *Reviews of Environmental Contamination and Toxicology* 193: 1-29.
6. Borie, F., R. Rubio & A. Morales. 2008. Arbuscular mycorrhizal fungi and soil aggregation. *Revista de la Ciencia del Suelo y Nutrición Vegetal* 8: 9-18.
7. **Briceño, G.\***, R. Demanet, M.L. Mora & G. Palma. 2008. Effect of liquid cow manure on andisol properties and atrazine adsorption. *Journal of Environmental Quality* 37(4): 1519-1526.
8. Calderón, M., C. Moraga, J. Leal, **L. Agouborde\*\***, R. Navia & G. Vidal. 2008. The use of Magallanic peat as non-conventional sorbent for EDTA removal from wastewater. *Bioresource Technology* 99: 8130-8136.

9. Canquil, N., M. Riveros, M. Rubilar & C. Shene. 2008. Consumption of *Ugni molinae* Turcz extracts and its effect on the human gut microflora. *Journal Soil Science and Plant Nutrition* 8(3): 277.
10. Canquil, N., M. Rubilar, M. Danino & C. Shene. 2008. Propiedades antimicrobianas de infusiones de hoja de murta: efecto sobre la microflora. *Revista Chilena de Nutrición* 35(1): 319.
11. Castillo, C., I. Astorga, F. Borie & R. Rubio. 2008. Efectos del cultivos hospederos y no hospederos sobre propágulos micorrísicos arbusculares. *Revista de la Ciencia del Suelo y Nutrición Vegetal*. 8(1): 37-54.
12. Castillo, C., R. Rubio, H. Urzúa & F. Borie. 2008. Interacción *Rhizobium leguminosarum* bv *trifolii* y hongos micorrísicos en un Andisol con diferentes niveles de saturación de aluminio. *Idesia* 26(3): 7-19.
13. Castillo, C., C. Ortiz, F. Borie & R. Rubio. 2008. Respuesta de ají (*Capsicum annuum* L.) cv. "Cacho de Cabra" a la inoculación con hongos micorrísicos arbusculares. *Información Tecnológica* 20(4): 3-14.
14. Castro-Arévalo, M., M. Reyes-Díaz, M. Alberdi, V. Jara-Rodríguez, C. Sanhueza, L.J. Corcuera & L.A. Bravo. 2008. Effects of low temperature acclimation on photosynthesis in three Chilean Proteacea. *Revista Chilena de Historia Natural* 81(3): 321-333.
15. Coopman, R.E., M. Reyes-Díaz, V.F. Briceño, L.J. Corcuera, H.M. Cabrera & L.A. Bravo .2008. Changes in light acclimation capacity of photosynthesis in *Nothofagus nitida* during early developmental stages explain its shade to sun transition. *Tree Physiology* 28: 1561-1571.
16. Cornejo, P., R. Rubio, C. Castillo, R. Azcón & F. Borie. 2008. Mycorrhizal effectiveness on wheat nutrient acquisition in an acidic soil from southern Chile as affected by nitrogen sources. *Journal of Plant Nutrition* 31(9): 1555-1569.
17. Cornejo, P., **S. Meier\***, G. Borie, M. Rillig & F. Borie. 2008. Glomalin related soil protein in a Mediterranean ecosystem affected by a copper smelter and its contribution to Cu and Zn sequestration. *Science of the Total Environment* 406: 154-160.
18. Cornejo, P., R. Rubio, R. Azcón & F. Borie. 2008. Persistence of mycorrhizal fungal propagules associated with two wheat cultivars in an Andisol fertilised with two nitrogen sources. *Agricultura Técnica* (En prensa).
19. Cornejo, P., R. Rubio & F. Borie. 2008. Effect of nitrogen source on some rhizospheric properties and persistence of mycorrhizal fungal propagules in an Andisol. *Chilean Journal Agricultural Research* 68: 119-167.

- 20.** Esparza, Y., A. Leyton & C. Shene. 2008. Protease and proline-endopeptidase production by *Aspergillus niger* under different culture condition. *Journal Soil Science and Plant Nutrition* 8(3): 278.
- 21. Fuentes, B.\***, M. Jorquera & M.L. Mora. 2008. Dynamic of phosphorus and associated phytate-mineralizing bacteria during the aerobic degradation process of dairy cattle feces. *Chemosphere* 74(2): 325-331.
- 22.** Gutiérrez, C.; C. Shene & M. Rubilar. 2008. Actividad antibacteriana de extractos de hojas de *Ugni molinae* Turcz. sobre *Staphylococcus*. *Revista Chilena de Nutrición* 35(1): 337.
- 23. Hernández, M.\***, V. Morgante, M. Ávila, P. Miralles, M. González & M. Seeger. 2008. Novel s-triazine-degrading bacteria isolated from agricultural soils of central Chile for herbicide bioremediation. *Electronic Journal of Biotechnology* 11(5): 1-6.
- 24. Hernández, M.\***, V. Morgante, C. Flores, P. Villalobos, M. González, P. Miralles, A. Dinamarca & M. Seeger. 2008. Modern approaches for the study of bioremediation of s-triazine herbicides in agricultural soils. *Journal of Soil Science and Plant Nutrition* 8: 19-30.
- 25. Hernández, M.\***, P. Villalobos, V. Morgante, M. González, C. Reiff, E. Moore & M. Seeger. 2008. Isolation and characterization of a novel simazine-degrading bacterium from agricultural soil of central Chile, *Pseudomonas* sp. MHP41. *FEMS Microbiology Letters* 286: 184-191.
- 26.** Huaiquil, A., **I. Hinzpeter\***, **B. Quilodrán\***, M. Rubilar & C. Shene. 2008. Biomass production by a native *Thraustochytrium* strain. *Journal Soil Science and Plant Nutrition* 8(3): 276.
- 27. Inostroza-Blancheteau, C.\***, M. Reyes-Díaz, M. Alberdi & M.L. Mora. 2008. Effect of the aluminum (Al<sup>3+</sup>) toxicity on the lipid peroxidation and antioxidant activity in blueberry *Vaccinium corymbosum* L. *Journal of Soil Science and Plant Nutrition* 8(3): 219.
- 28. Inostroza-Blancheteau, C.\***, B. Soto, P. Ulloa, F. Aquea & M. Reyes-Díaz. 2008. Review: Resistance mechanisms of aluminum (Al<sup>3+</sup>) phytotoxicity in cereals: physiological, genetic and molecular bases. *Journal of Soil Science and Plant Nutrition* 8(3): 57-71.
- 29.** Ismail, S.B., P. Gonzalez, D. Jeison & J.B. van Lier. 2008. Effects of high salinity wastewater on methanogenic sludge bed systems. *Water Science and Technology* 10: 1963-1970.
- 30.** Jara, C., C. Shene, M. Villarroel & M. Rubilar. 2008. Extractos de maqui (*Aristotelia chilensis*) como antioxidantes e inhibidores de enzimas. *Revista Chilena de Nutrición* 35(1): 316.

31. Jeison, D. & J.B. van Lier. 2008. Feasibility of thermophilic anaerobic submerged membrane bioreactors (AnSMBR) for wastewater treatment. *Desalination* 1-3: 227-235.
32. Jeison, D., I. Diaz & J.B. van Lier. 2008. Anaerobic membrane bioreactors: Are membranes really necessary? *Electronic Journal of Biotechnology* 11(4): 1-7.
33. Jeison, D., & J.B. van Lier. 2008. Anaerobic digestion and membrane filtration: A one night stand or a sustainable relationship? *Water Science and Technology* 54(4): 527-532.
34. Jeison, D., A. del Rio & J.B. van Lier. 2008. Impact of high saline wastewaters on anaerobic granular sludge functionalities. *Water Science and Technology* 54(6): 815-819.
35. Jeison, D., B. Kremer & J.B. van Lier. 2008. Application of membrane enhanced biomass retention to the anaerobic treatment of acidified wastewaters under extreme saline conditions. *Separation and Purification Technology* 64(2): 198-205.
36. Jeison, D., W. van Betuw & J.B. van Lier. 2008. Feasibility of anaerobic membrane bioreactors for the treatment of wastewaters with particulate organic matter. *Separation Science and Technology* 43(13): 3417-3431.
37. Jorquera, M., **M. Hernández\***, Z. Rengel, P. Marschner & M.L. Mora. 2008. Isolation of culturable phosphobacteria with both phytate-mineralization and phosphate-solubilization activity from the rhizosphere of plants grown in a volcanic soil. *Biology and Fertility of Soils* 44(8): 1025-1034.
38. Jorquera, M., **O. Martinez\***, F. Maruyama, P. Marschner & M.L. Mora. 2008. Current and future biotechnological applications of bacterial Phytases and Phytase-Producing bacteria. *Microbes and Environment* 23(3): 182-191.
39. Langer, H., K.G. Nandasena, J.G. Howieson, M. Jorquera & F. Borie. 2008. Genetic diversity of *Sinorhizobium meliloti* associated to alfalfa in Chilean volcanic soils and their symbiotic effectiveness under acidic conditions. *World Journal Microbiology & Biotechnology* 24: 301-308.
40. Matus, F., E. Garrido, N. Sepúlveda, I. Cárcamo, **M. Panichini\*** & E. Zagal. 2008. Relationship between extractable Al and C in volcanic soils of Chile. *Geoderma* 148(2): 180-188.



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41. Matus, F., C. Lusk & C. Maire. 2008. Effects of soil texture, C input rates and litter quality on free organic matter and N mineralization in Chilean rain forest and agricultural soils. *Communication in Plant and Soil Analysis* 39: 187-201.
42. **Millaleo, R.\***, M. Reyes-Díaz, M. Alberdi & M.L. Mora. 2008. Effect of aluminium (Al<sup>3+</sup>) toxicity on total soluble sugars in blueberry cultivars (*Vaccinium corymbosum* L.). *Journal of Soil Science and Plant Nutrition* 8(3): 211-232.
43. Moenne-Locoz, D., E. Biolley, C. Shene, M. Villarroel & M. Rubilar. 2008. Potencial antioxidante de harina de papa variedad bruja. *Revista Chilena de Nutrición* 35(1): 340.
44. Moenne-Locoz D., E. Biolley, M. Villarroel & M. Rubilar. 2008. Caracterización antioxidante y nutricional de papas nativas de Chiloé. *Revista Chilena de Nutrición* 35(1): 341.
45. Mora, M.L., L. Pinilla, A. Rosas & **P. Cartes\***. 2008. Selenium uptake and its influence on the antioxidative system of white clover as affected by lime and phosphorus fertilization. *Plant and Soil* 303: 139-149.
46. Motomura, Y., M. Reyes-Díaz & M.L. Mora. 2008. Influence of selenite on the total polyphenol content and antioxidative activity of aqueous and ethanolic extracts in sprouts of four agronomic species. *Journal of Soil Science and Plant Nutrition* 8(1): 55-67.
47. **Muñoz, M.C.\***, C.M. Monreal, M. Schnitzer & E. Zagal. 2008. Influence of *Acacia caven* (Mol) coverage on carbon distribution and its chemical composition in soil organic carbon fractions in a Mediterranean-type climate region. *Geoderma* 144: 352-360.
48. Navia, R. & A. Bezama. 2008. Hazardous waste management in Chilean main industry: an overview. *Journal of Hazardous Materials* 158: 177-184.
49. **Oyarzún, M.P.\***, M. Birkett & A. Quiroz. 2008. Insecticides resistance in the horn fly (Diptera: Muscidae): reviewing the alternatives. *Medical and Veterinary Entomology* 22(3): 188-202.
50. Piper, F., A. Zúñiga-Feest, P. Rojas, M. Alberdi, L.J. Corcuera & C.H. Lusk. 2008. Responses of two temperate evergreen *Nothofagus* species to sudden and gradual waterlogging: relationships with distribution patterns. *Revista Chilena de Historia Natural* 81(2): 257-266.
51. Poo, Y., M. Villarroel, C. Shene & M. Rubilar. 2008. Capacidad inhibitoria de extractos de murta (*Ugni molinae* Turcz.) sobre enzimas. *Revista Chilena de Nutrición* 35(1): 319.



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52. Redel, Y., R. Rubio, R. Godoy & F. Borie. 2008. Phosphorus fractions and phosphatase activity in an Andisol under different forest ecosystems. *Geoderma* 145: 216-221.
53. Reyes-Díaz, M., **Y. Rojas-Lillo\*\***, **C. Inostroza-Blancheteau\***, M. Alberdi & M.L. Mora. 2008. Short-term aluminium exposure induced rapid changes in proline, carbohydrates and aluminum concentration in *Ugni molinae* and *Vaccinium corymbosum*. *Journal of Soil Science and Plant Nutrition* 8(3): 231.
54. **Ribera, A.\***, G. Zuñiga & M. Cotoras. 2008. Effect of extracts from in vitro shoots of *Quillaja saponaria* Mol. on *Botrytis cinerea*. *Word Journal Biotechnology and Microbiology* 24: 1803-1811.
55. Riveros, M., Y. Esparza, M. Rubilar & C. Shene. 2008. Vegetable meals as substrate for cellulase production by *Aspergillus niger*. *Journal Soil Science and Plant Nutrition* 8(3): 275.
56. Rosas, A., M.L. Mora, A. Jara, **R. Lopez\***, M. Rao & L. Gianfreda. 2008. Catalytic behavior of acid phosphatase immobilized on natural supports in the presence of manganese or molybdenum. *Geoderma* 145: 77-83.
57. **Rubilar, O.\***, M.C. Diez & L. Gianfreda. 2008. Transformation of chlorinated phenolic compounds by white rot fungi. *Critical Reviews in Environmental Science and Technology* 38: 227-268.
58. Scheuermann, E., I. Seguel, A. Montenegro, R.O. Bustos, E. Hormazábal & A. Quiroz. 2008. Evolution of aroma compounds of murtilla fruits (*Ugni molinae* Turcz) along storage. *Journal of the Science of Food and Agriculture* 88: 485-492.
59. Schnettler B, D. Ruiz, O. Sepúlveda & N. Sepúlveda. 2008. Importance of the country of origin in food consumption in a developing country. *Food Quality and Preference* 19: 372-382.
60. Schnettler, B., R. Silva & N. Sepúlveda. 2008. El consumo de carne en el sur de Chile y su relación con las características sociodemográficas de los consumidores. *Revista Chilena de Nutrición* 35(1): 262-270.
61. Schnettler, B., R. Vidal, R. Silva, L. Vallejos & N. Sepúlveda. 2008. Consumer perception of animal welfare and livestock production in the Araucanía Region, Chile. *Chilean Journal of Agricultural Research* 68(1): 80-93.
62. Schnettler, B., D. Ruiz D, O. Sepúlveda & N. Sepúlveda. 2008. Importancia del país de origen en la compra de la carne bovina en Chile. *Revista Científica FCV-LUZ XVIII(6): 725-733.*

63. Schnettler, B., O. Sepúlveda & D. Ruiz. 2008. Acceptance of transgenic milk in La Araucanía Region, Chile. *Chilean Journal of Agricultural Research* 68(4): 380-390.
64. Schnettler, B., O. Sepúlveda & D. Ruiz. 2008. Aceptación diferenciada de alimentos transgénicos de origen vegetal y animal en la Región de La Araucanía, Chile. *Ciencia e Investigación Agraria* 35(2): 169-180.
65. Schnettler, B., O. Sepúlveda, D. Ruiz & M. Denegri. 2008. Percepción diferenciada de salsa de tomate transgénica en el sur de Chile. *Archivos Latinoamericanos de Nutrición* 58(1): 49-58.
66. Seguel, A., R. Rubio, R. Carrillo, A. Espinosa & F. Borie. 2008. Niveles de glomalina y su relación con parámetros químicos y biológicos del suelo en un relicto de bosque nativo del sur de Chile. *Bosque* 29: 11-22.
67. Shene, C., N. Canquil, S. Bravo & M. Rubilar. 2008. Production of the exopolysaccharides by *Streptococcus thermophilus*: effect of growth conditions on fermentation kinetics and intrinsic viscosity. *International Journal of Food Microbiology* 124(3): 279-284.
68. Stolpe, N., **M.C. Muñoz\***, E. Zagal & C. Ovalle. 2008. Carbon and nitrogen status in granitic soils of the 'espinal' agroecosystem of central Chile. *Arid Land Research and Management* 22: 148-158.
69. **Tortella, G.R.\***, **O. Rubilar\***, L. Gianfreda, E. Valenzuela & M.C. Diez. 2008. Enzymatic characterization of Chilean native wood-rotting fungi for potential use in biotechnology applications. *World Journal Microbiology & Biotechnology* 24: 2805-2818.
70. Valenzuela, E., J. Hipp, A. Alonso, R. Godoy, M. Alberdi, M. Alvarez & I. Saavedra. 2008. Physiological-enzymatic characteristics and inoculation of mycelialstrains of *Descolea antarctica* Sing. in *Nothofagus* seedlings. *Electronic Journal of Biotechnology* 11(2): 1-17.

\* = Alumno(s) de Doctorado

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