Artículos en revistas abitradas

Signorelli S., Dans P., Cuitiño L., Borsani O. and **Monza J.** 2015. Connecting proline and γ-aminobutyric acid in stressed plants through non-enzymatic reactions. Plos ONE-D-14-34940R1.

Bao L., Scatoni I. B., Gaggero C., Gutiérrez L., **Monza J.,** Walker M. A. 2015.Genetic Diversity of Grape Phylloxera Leaf Galling Populations on Vitis species in Uruguay. American Journal of Enology and Viticulture American Journal of Enology and Viticulture. DOI 14-00026R1.

Batista L., Irisarri P., Rebuffo M., Cuitiño M. J. and Sanjuán J. and **Monza J.** 2014. Nodulation competitiveness as a requisite for improved rhizobial inoculants of *Trifolium pratense*. Biol Fertil Soils, 51:11-20 http://link.springer.com/journal/374
DOI 10.1007/s00374-014-0946-3.

Bonnecarrère V., Quero G., Monteverde E., Rosas J., Pérez de Vida F., Cruz M., Corredor E., Garaycochea S., **Monza J.**, Borsani O. 2014. Candidate gene markers associated with cold tolerance in vegetative stage of rice (*Oryza sativa* L.). DOI 10.1007/s10681-014-1290-2.

Sánchez M., Ramírez Bahena M. H., Peix A., Lorite M. J., Sanjuán J., Velázquez E. and **Monza J**. 2014. *Phylolobaterium loti* sp. nov. isolated from nodules of *Lotus corniculatus*. International Journal of Systematic Evolutionary Microbiology. 64:781-786. (DOI IJS/2013/052993).

Quero G., Gutiérrez L., Lascano R., **Monza J.**, Sandal N. and Borsani O. 2014. Identification of QTLs for shoot and root growth under ionic-osmotic stress in Lotus using a RIL population. Crop and Pasture Science. 65: 139-149. (doi.org/10.1071/CP13222).

Signorelli S., Coitiño L., Borsani O. and **Monza J.** 2014. Molecular Mechanisms for the Reaction Between •OH Radicals and Proline: Insights on the Role as Reactive Oxygen Species Scavenger in Plant Stress. The Journal of Physical Chemistry. 118-1: 37-47. (doi.org/10.1021/jp407773u).

Signorelli S., Casaretto E., Sainz M., Díaz P, **Monza J**., Borsani O. 2013. Antioxidant and photosystem II responses contribute to explain the drought - heat contrasting tolerance of two forage legumes. Plant Physiology and Biochemistry. 70:195 -203.

Batista L., Tomasco I., Lorite M. J., Sanjuán J., **Monza J.** 2013. Diversity and phylogeny of rhizobial strains isolated from *Lotus uliginosus* grown in Uruguayan soils. Applied Soil Ecology. 66:19-28.

Signorelli S., Arellano J. B., Melo T. B., Borsani O. and **Monza J**. 2013. Proline does not quench singlet oxygen: Evidence to reconsider its protective role in plants. Plant Physiology and Biochemistry. 64:80-83.

Signorelli S., Corpas F.J., Borsani O., Barroso J.B. and **Monza J**. 2013. Water stress induces a differential and spatially distributed nitro-oxidative stress response in roots and leaves of *Lotus japonicus*. Plant Science. 201-202:137-146.

Quero G., Borsani O., Gutiérrez L., Melchiore M., **Monza J**. y Lescano R. 2013. Sistemas de fenotipado para la evaluación de las respuestas al estrés salino en Lotus. Agrociencia. 17-1:11-21.

Betti M., Pérez-Delgado C., García-Calderón M., Díaz P., **Monza J.** and Márquez A. J. 2012. Cellular stress following water deprivation in the model legume *Lotus japonicus*. Cells 1: 1089-1106.

Generation and characterization of inter-specific hybrids of *Lotus uliginosus* x *L*. *corniculatus* 2012. Castillo A., Rebuffo, M., Dalla Risa M., Borsani O. and **Monza J.** Crop Science 52:1572-1582.

Berretta A., Casanova O., **Monza J.** Y Perdomo. 2012. Eliminación del color del extracto para determinar nitrato en muestras secas de lechuga. Nota técnica. Agrociencia. 16-1: 1-6.

Sotelo M., Irisarri P., Lorite M. J., Casaretto E., Rebuffo M., Sanjuan J., **Monza J.** 2011. Diversity of rhizobia nodulating *Lotus corniculatus* grown in northern and southern regions of Uruguay. Applied Soil Ecology. 49:197– 207.

Bonecarrere V., Borsani O., Díaz, P; Capdevielle F., Blanco P., **Monza J.** 2010. Response to photooxidative stress induced by coold in japonica rice is genotype dependence. Plant Science. 180:726-732.

P. Díaz, M. Betti, D. Sánchez, M. Udvardi, **J. Monza**, and A. Márquez. 2010. Deficiency in plastidic glutamine synthetase alters praline metabolism and transcriptomic response in *Lotus japonicus* under drought stress. New Phytologists (en prensa).

Sainz; P. Díaz; **J. Monza** and O. Borsani. 2010. Heat stress results in loss of chloroplast Cu/Zn superoxide dismutase and increased damage to Photosistem II in combined drougth-heat stressed *Lotus japonicus*. 2010. M Physiologia Plantarum 140: 46–56.

Borsani J.; González-Neves G.; Ferrer M. and **Monza J.** 2010. Anthocyanins accumulation and expression of genes-related in berries of grapevine (*Vitis vinifera* L.) cv. Tannat. Journal of Applied Horticulture (12:1 en prensa).

Irisarri P.; Gonnet S.; Deambrosi E and **Monza J**. 2007. Cyanobacterial inoculation and nitrogen fertilization in rice. World Journal of Microbiology and Biotechnology. 23:237-242.

Sotelo M. and **Monza J.** 2007. Micropropagation of *Eucalyptus maidenii* elite trees. Agrociencia 11: 81-89.

Monza J.; Irisarri; P.; Díaz, P.; Delgado, M.; Mesa; and Bedmar, E. 2006 Denitrification hability of rhizobial strains isolated from *Lotus* sp. Antoine van Leewenhoek (en prensa).

Díaz, P.; Borsani, O.; Márquez, A. and **J. Monza**. 2005. Osmotically induced proline accumulation in *Lotus corniculatus* leaves affected by light and nitrogen source. Plant Growth Regulation 46:223-232.

Díaz, P.; Borsani, O.; Márquez, A. and **Monza J**. 2005. Nitrogen metabolism in relation to drought stress responses in cultivated and model *Lotus* species. Lotus Newsletter 35:125-134.

Márquez, M. Betti, M. García-Calderón, P. Pal´ove, P. Díaz and **J. Monza.** 2005. Nitrate assimilation in *Lotus japonicus*. Journal Experimental Botany. 56:1741-1749.

Borsani, O.; Díaz, P.; Agius, F.; Valpuesta, V. and **Monza, J**. 2001. Water stress generates an oxidative stress through the induction of a specific Cu/Zn superoxide dismutase in *Lotus corniculatus* leaves. Plant Science, 161:757-763.

Irisarri, P.; Gonnet, S. and **Monza, J.** 2001. Cyanobacteria in Uruguayan Rice Fields: Diversity, Nitrogen fixing ability and tolerace to Herbicide and combined nitrogen. Journal of Biotechnol. 91:95-103.

Brito, B.; **Monza, J**.; Imperial, J.; Ruiz-Argüeso, T. and Palacios, J.M. 2000. Nikel avaiblability and *hup*SL activation by heterologous regulators limit

symbiotic expression of the *Rhizobium leguminosarum* bv. viciae hydrogenase system in *Hup*- rhizobia. Appl. and Environm. Microbiol. 66:937-942.

Borsani, O.; Díaz, P. and **Monza, J.** 1999. Proline is envolved in water stress responses of *Lotus corniculatus* nitrogen fixing and nitrate fed plants. J. Plant Physiol. 155:269-273.

Santamaría, M.; Agius, F.; **Monza, J.**; Gutiérrez-Navarro, A.M. and Corzo, J. 1999. Comparative perfomance of enterobacterial repetitive intragenic consensus-polymerase chain reaction and lipopolisaccharide electrophoresis for the identification of *Bradyrhizobium* sp. (*Lotus*) strains. FEMS Microbiol. and Ecol. 28:163-168.

Díaz, P.; Borsani, O. y **Monza, J.** 1999. Acumulación de prolina en plantas en respuesta a estrés osmótico. Agrociencia. 3:1-10.

Irisarri, P.; Gonnet, S.; Deambrosi, E. y **Monza, J**. 1999. Diversidad de cianobacterias con heterocistos en suelos cultivados con arroz. Agrociencia 3:31-37.

Agius, F.; Sanguinetti, C. and **Monza, J.** 1997. Strain-specific fingerprints of *Rhizobium loti* generated by PCR with arbitrary and repetitive sequences. FEMS Microbiol. and Ecology. 24:87-92.

Monza, J.; Díaz, P. Borsani, O.; Ruiz-Argüeso, T. and Palacios, P. 1997. Evaluation and improvement of the energy efficiency of nitrogen fixation in *Lotus corniculatus* nodules induced by *Rhizobium loti* strains isolated from uruguayan soils. World J. of Microbiol. and Biotechnol. 13: 565-571.

Irisarri, P. Milnitsky, F.; **Monza, J.** and Bedmar, E. 1996. Characterization of rhizobia nodulating *Lotus subbiflorus* from Uruguayan soils. Plant and Soil 180: 39-47.

Díaz, P.; Borsani, O, and **Monza, J.** 1995. Effect of inoculation and nitrate on nitrite reductase activity and acetylene reduction activity in *Lotus* sp.-*R. loti* symbiosis. Symbiosis 19:53-63.

Monza, J.; Delgado, M.; Bedmar, E. 1992. Nitrate reductase and nitrite reductase activity in free-living cells and bacteroids of *Rhizobium loti*. Plant and Soil 139:203-207.

Monza, J.; Fabiano, E.; Arias, A. 1992. Characterization of an indigenous population of rhizobia nodulating *Lotus corniculatus*. Soil Biol. Biochemestry. 24(3):241-247

Monza, J., Delgado M. y Bedmar E. 1989. Actividad Nitrato Reductasa en hoja, tallo, raíz y nódulo de *Lotus corniculatus* en simbiosis con *Rhizobium loti*. Turrialba 39(2):175-179.

Capítulos de libros

Metabolismo del nitrógeno en las plantas. J. Monza y A. Márquez Editores. Editorial Almuzara, España. 2004. Los Capítulos dentro de este libro figuran en el ítem siguiente (3 y 4).

c. Capítulos de libros *(los tres primeros corresponden al período informado)*.

Santiago Signorelli, Esteban Casaretto, **Jorge Monza** and Omar Borsani. 2015. Combined Abiotic Stress in Legumes. Chapter 6. Combined Stresses in Plants, Editor R. Mahalingam. DOI 10.1007/978-3-319-07899-1_6. Springer International Publishing Switzerland. P. 1 -23

P.al'ove-Balang P., Betti M., Díaz P., Pérez-Delgado C., García Calderón M., **Monza J.** and Márquez A. 2014. Abiotic stress in Lotus: aluminium and

drought. Chapter 17. Molecular Approaches for Plant Abiotic Stress, Editors. R.K. Gaur and Pradeep Sharma. Ed. CRS Press Taylor and Francis Group, USA. P. 284 – 303.

Díaz P., Betti M., García-Calderón M., Pérez-Delgado C., Signorelli S., Borsani O., Márquez A. and **Monza J.** 2014. Amino acids and drought stress in Lotus: use of transcriptomics and a plastidic glutamine synthetase mutant for new insights in proline metabolism, Chapter 4. In: Plant Adaptation to Environmental. Amino acids and their derivatives: significance for plant stress adaptations. Editores: Naser A. Anjum and Sarvajeet S. Gill. Editorial CABI – UK. P. 53-67.

O. Borsani, E. Casaretto, A. Márquez, M. Rebuffo, P. Díaz y **J. Monza**. 2010. Metabolismo de prolina en cultivares de *Trifolium pratense* con diferente producción estival. En: Avances en el Metabolismo del Nitrógeno: de la Genómica y la Proteómica a las Aplicaciones Agronómicas, Industriales y Medioambientales. (M. J. Bonete y R. M. Martínez-Espinosa. Eds). pp 195-201.

Chapter 1: *Lotus japonicus* relatd species and their agronomic importance. P. Díaz, O. Borsani and **J. Monza**. Handbook of *Lotus japonicus*. Editorial Springer, 2005.

Chapter 9: Drought and saline stress in *Lotus japonicus* P. Díaz, **J. Monza** and A. Márquez. Handbook of *Lotus japonicus*. Editorial Springer, 2005.

Capítulo 1. Fijación Biológica de nitrógeno en la simbiosos rizobio leguminosa. **Monza, J**. y Palacios, J. M. Metabolismo del nitrógeno en las plantas. Editorial Almuzara, España. 2004.

Capítulo 5: Relación entre el metabolismo del carbono y nitrógeno. **Monza, J** y Arrese-Igor, C. Metabolismo del nitrógeno en las plantas. Editorial Almuzara, España. 2004.

Capítulo 16: Análisis molecular y respuesta a estrés hídrico en mutantes de *Lotus japonucus* deficientes de glutamina sintetasa cloroplástica". Díaz, P.; **Monza J**. y Márquez, A.. Avances en el Metabolismo del Nitrógeno. Editorial Universidad Pública de Navarra, España. 2002.