



# Constanza Carrera

## Investigadora María Zambrano

### Datos personales



**Categoría:** Investigadora María Zambrano

**Area de conocimiento:** Agronomía

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### Formación Académica

- Doctora, Universidad Nacional de Córdoba, Argentina, 2011
- Ingeniera Agrónoma, Universidad Nacional de Córdoba, Argentina, 2006

### Experiencia Profesional

- 2022 – 2024. Investigadora María Zambrano del Departament de Producció Vegetal i Ciència Forestal de la Universitat de Lleida.
- 2018 – presente. Investigadora Adjunta de la Carrera de Investigador Científico i Tecnológico del CONICET (Consejo Nacional de Investigaciones Científicas y Técnicas)
- 2014 – presente. Investigadora del Instituto de Fisiología y Recursos Genéticos Vegetales (IFRGV), Centro de Investigaciones Agropecuarias (CIAP), del Instituto Nacional de Tecnología Agropecuarias (INTA).
- 2015– 2016. Profesora Ayudante A con dedicación simple en el Departamento de Producción Vegetal, Universidad Católica de Córdoba.
- 2010– 2011. Profesora Ayudante A con dedicación simple en el Departamento de Recursos Naturales, Universidad Nacional de Córdoba.

### Investigación

Mi área de interés es el estudio de las bases ecofisiológicas determinantes del rendimiento y la calidad de los granos de los cultivos. Principalmente interesada en la interacción genotipo x ambiente y en comprender los mecanismos involucrados en las respuestas de los cultivos a estreses abióticos (déficit hídrico y estrés por altas temperaturas) a niveles celular, de planta y del canopeo.



## Publicaciones Recientes

**SCOPUS Author ID:** 26648004000

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-Kettler, B., **Carrera, C.S.**, Nalli, F.D., Trachsel, S., Andrade F.H., Neiff, N. 2022. High night temperature during maize postflowering increases night respiration and affects photosynthesis, growth and kernel number. **Journal of Agronomy and Crop Science** *in press*.

-**Carrera, C.S.**, Rosas, M.B., Gontijo Mandarino, J.M., Leite, R.S., Raspa F., Fava F., Dardanelli J., Andrade, F. 2022. Partial and total defoliation during the filling period affected soybean grain industrial and nutraceutical quality. **Journal of the Science of Food and Agriculture** *in press*.

-**Carrera, C.S.**, Salvagiotti F., Ciampitti I. 2021. Benchmarking nutraceutical soybean composition relative to protein and oil. **Frontiers in Nutrition** 8, 663434.

-**Carrera, C.S.**, Solís S.M., Ferrucci M.S., Vega C.C.R., Galati B.G., Ergo V.V., Andrade F.H., Lascano R.H. 2021. Leaf structure and ultrastructure changes induced by heat stress and drought during seed filling in field-grown soybean and their relationship with grain yield. **Annals of the Brazilian Academy of Sciences** 93 (4), art. no. e20191388.

**15-Carrera, C.S.**, Urretabizkaya N., Gontijo Mandarino J.M., Santos Leite R., Szemruch C., Rondanini D.P. 2021. Soybean seed and pod isoflavones accumulation during the late reproductive period. **Revista de Investigaciones Agropecuarias** 47 (3), pp. 338-343.

-Ergo, V.V., Veas, R.E.A., Vega, C.R.C., Lascano, R.H., **Carrera, C.S.** 2021. Leaf photosynthesis and senescence in heated and droughted field-grown soybean with contrasting seed protein concentration. **Plant Physiology and Biochemistry** 166: 437-447 (2021).

-Veas, R.E.A., Ergo, V.V., Vega, C.R.C., Lascano, R.H., Rondanini, D.P., **Carrera, C.S.** 2021. Soybean seed growth dynamics exposed to heat and water stress during the filling period under field conditions. **Journal of Agronomy and Crop Science** *in press*.

-Ergo, V.V., R.H. Lascano, C.R.C. Vega, R. Parola, C.S. **Carrera**. 2018. Heat and water stressed field-grown soybean: a multivariate study on the relationship between physiological-biochemical traits and yield. **Environmental and Experimental Botany** 148 [ <https://www.sciencedirect.com/science/journal/00988472/148/supp/C> ], 111.

-Lattar, E.C., Galati, B.G., **Carrera, C.S.**, Ferrucci, M.S. 2018. Floral nectaries of *Heliocarpus popayanensis* and *Luehea divaricata* (Malvaceae-Grewioideae): Structure and ultrastructure. **Australian Journal of Botany** 66(1), 59-73.

-Zini, L.M., **Carrera, C.S.**, Lattar, E.C., Ferrucci, M.S. 2018. Pollen morphology in selected species of Caricaceae with special reference to novel palynological characters. **Botany** 96(1), 1-8

\*-**Carrera, C.** and J. Dardanelli. 2017. Water deficit modulates the relationship between temperature and unsaturated fatty acid profile in soybean (*Glycine max* L.) seed oil. **Crop Science** 57(6), 31793189.



- Carrera, C. and P. Seguin. 2016. Factors affecting tocopherol concentrations in soybean seeds. **Journal of Agricultural and Food Chemistry** 64(50), 9465-9474.
- Carrera, C. and J. Dardanelli. 2016. Changes in the Relationship Between Temperature During the Seed-Filling Period and Soya Bean Seed Isoflavones Under Water-Deficit Conditions. **Journal of Agronomy and Crop Science** 202, 421432.
- Carrera, C., J. Dardanelli, and D.O. Soldini. 2014. Environmental and genotypic variation on seed nutraceutical and industrial composition of non-transgenic soybeans. **Crop and Pasture Science** 65 (12): 1311–1322.
- Carrera, C., J. Dardanelli, and D.O. Soldini. 2014. Chemical compounds related to nutraceutical and industrial qualities of nontransgenic soybean genotypes. **Journal of the Science of Food and Agriculture** 94 (7): 1463–1469.
- Gaido, N.E., J.O. Gieco y C. Carrera. 2013. Impacto de mancha ojo de rana (*Cercospora sojina* k. Hara) sobre rendimiento y componentes industriales del grano de soja: aceite y proteína. **Revista de la Facultad de Ciencias Agrarias Universidad Nacional de Cuyo** 45(2): 327-340.
- Carrera, C., C.M. Reynoso, G.J. Funes, M.J Martínez., J. Dardanelli, and S.L. Resnik. 2011. Amino acid composition of soybean seeds as affected by climatic variables. **Pesquisa Agropecuária Brasileira** 46:1579-1587.
- Carrera, C., M.J. Martínez, J. Dardanelli, and M. Balzarini. 2011. Environmental variation and correlation of seed components in non-transgenic soybeans: protein, oil, unsaturated fatty acids, tocopherols and isoflavones. **Crop Science** 51:800-809.
- Carrera, C., M.J. Martínez, J. Dardanelli, and M. Balzarini. 2009. Water deficit effect on the relationship between temperature during the seed filling period and soybean seed oil and protein concentrations. **Crop Science** 49:990-998.