

Article

Supplementary Materials: Nitrogen-Driven Changes in Metabolic Profile Modulate Photosynthetic Performance and Antioxidant Defense of *Amaranthus cruentus*

Enrique Ostria-Gallardo ^{1,*}, Valentina Cabrera ¹, Estrella Zúñiga-Contreras ², José Ortiz ¹, León Bravo ³, Teodoro Coba de La Peña ², Jaime Cuevas ² and Luisa Bascuñán-Godoy ¹

¹ Laboratorio de Fisiología Vegetal, Departamento de Botánica, Facultad de Cs. Naturales y Oceanográficas, Universidad de Concepción, Concepción 4030000, Chile

² Centro de Estudios Avanzados en Zonas Áridas, CEAZA, La Serena 1700000, Chile

³ Laboratorio de Fisiología y Biología Molecular Vegetal, Instituto de Agroindustria, Departamento de Ciencias Agronómicas y Recursos Naturales, Facultad de Ciencias Agropecuarias y Medioambiente, Universidad de La Frontera, Temuco 4780000, Chile

* Correspondence: eostria@udec.cl; Tel.: +56-41-2661032

How To Cite: Ostria-Gallardo E, Cabrera V, Zúñiga-Contreras E, Ortiz J, Bravo L, de La Peña TC, Cuevas J, & Bascuñán-Godoy L. (2025). Nitrogen-driven changes in metabolic profile modulate photosynthetic performance and antioxidant defense of *Amaranthus cruentus*. *Plant Ecophysiology*, 1(1), 4. <https://doi.org/10.53941/plantecophys.2025.100004>.

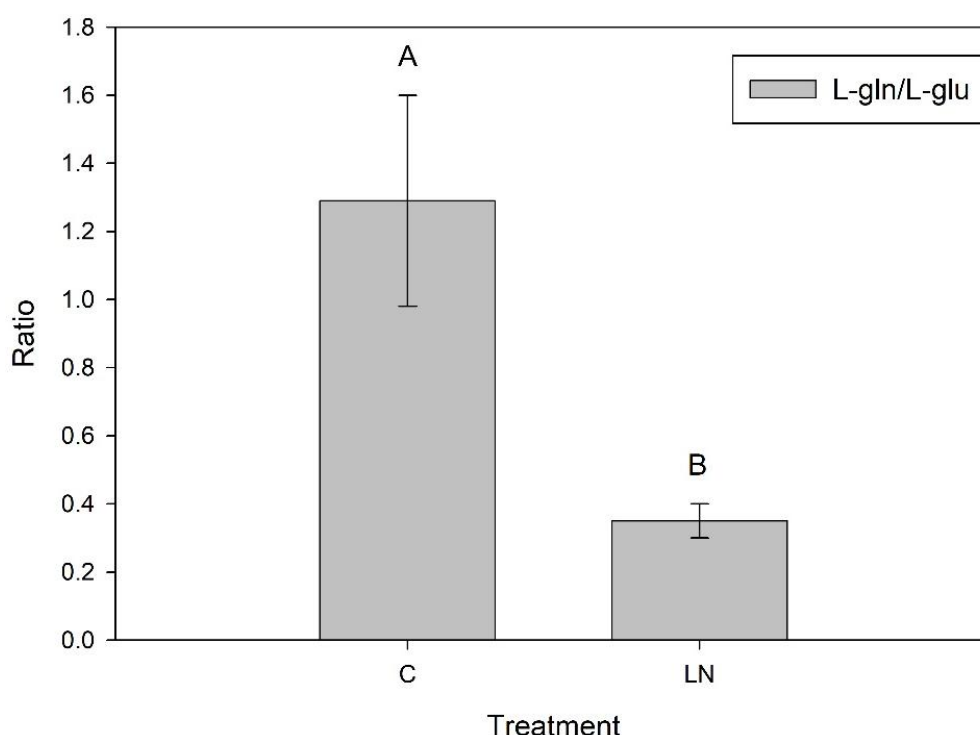


Figure S1. Changes of the L-glutamine/L-glutamic acid ratio in *A. cruentus* between sufficient nitrogen (C) and low nitrogen (LN) availability treatments. Peak intensity values from the QTOF MS + Elute UHPLC analysis were used to calculate the ratio. Each bar represents the mean value of three biological samples for each treatment. Vertical lines represent the standard error. Different letters represent statistically significant differences ($p < 0.05$) using the Tukey test as a pos-hoc test.