

**Research articles SCI 2022 (1)**

**NEW!!** Zahedi SM, Hosseini MS, Meybodi NDH, **Abadía J**, Germ M, Gholami R, Abdelrahman M (2022) Evaluation of drought tolerance in three commercial pomegranate cultivars using photosynthetic pigments, yield parameters and biochemical traits as biomarkers. **Agric Water Manag**, 261:107357 (doi: [10.1016/j.agwat.2021.107357](https://doi.org/10.1016/j.agwat.2021.107357))

**Research articles SCI 2021 (5)**

**NEW!!** De la Peña M, Marín-Peña AJ, Urmeneta L, Coletto I, **Castillo-González J**, van Liempd SM, Falcón-Pérez JM, **Álvarez-Fernández A**, González-Moro MB, Marino D (2021) Ammonium nutrition interacts with iron homeostasis in *Brachypodium distachyon*. **J Exp Bot**, accepted (doi: [10.1093/jxb/erab427](https://doi.org/10.1093/jxb/erab427))

**NEW!!** Izadi Z, Nejad AR, **Abadía J** (2021) Foliar applications of thidiazuron and putrescine increase leaf iron concentrations and antioxidant activity in iron-deficient pot marigold (*Calendula officinalis* L.). **Acta Physiol Plant** 43, 122 (doi: [10.1007/s11738-021-03295-1](https://doi.org/10.1007/s11738-021-03295-1))

**Hosseini MS**, Ebrahimi M, Samsampour D, **Abadía J**, Khanahmadi M, Amirian R, Ghafoori IN, Ghaderi-Zefrehei M, Gogorcena Y (2021) Association analysis and molecular tagging of phytochemicals in the endangered medicinal plant licorice (*Glycyrrhiza glabra* L.). **Phytochemistry**, accepted (doi: [10.1016/j.phytochem.2020.112629](https://doi.org/10.1016/j.phytochem.2020.112629))

**Gheshlaghi Z**, Luis-Villarroya A, **Álvarez-Fernández A**, Khorassani R, **Abadía J** (2021) Iron deficient *Medicago scutellata* grown in nutrient solution at high pH accumulates and secretes large amounts of flavins. **Plant Sci**, accepted (doi: [10.1016/j.plantsci.2020.110664](https://doi.org/10.1016/j.plantsci.2020.110664))

Sobrino-Plata J, Barón-Sola A, Ortega-Villasante C, Ortega-Campayo V, González-Berrocal C, Conesa-Quintana C, Carrasco-Gil S, **Muñoz-Pinilla M**, **Abadía J**, **Álvarez-Fernández A**, Hernández LE (2021) Sulphur and biothiol metabolism determines toxicity responses and fate of mercury in *Arabidopsis*. **Environ Exp Bot** 182, (doi: [10.1016/j.envexpbot.2020.104302](https://doi.org/10.1016/j.envexpbot.2020.104302))

**Dissemination papers 2021 (1)**

**NEW!!** **Castillo-González JL**, **Abadía A**, **Abadía J**, **Álvarez-Fernández A** (2021) Physiological changes and root responses to zinc deficiency in *Prunus* rootstock GF 677. **Acta Horticulturae**, in press



## Book chapters 2021 (1)

Bonilla I, **Abadía J**, Bolaños L, Pestana M (2021) Introdução a nutrição vegetal: elementos minerais. In: Relações solo-planta: bases para a nutrição e produção vegetal, Prieto HE, Lucena JJ, Bonilla I, Ed. Editora UFV da Universidade Federal de Vicosa, Brasil. ISBN: 978-65-5925-019-6 ([link](#))

## Research articles SCI 2020 (11)

**NEW!!** Castro-Rodríguez R, Abreu I, Reguera M, Novoa-Aponte L, Mijovilovich A, Escudero V, **Jiménez-Pastor FJ**, **Abadía J**, Wen J, Mysore KS, **Álvarez-Fernández A**, Küpper H, Imperial J, González-Guerrero M (2021) *Medicago truncatula* Yellow Stripe1-Like3 gene is involved in vascular transition metal delivery to root nodules. **J Exp Bot**, accepted (doi: [10.1093/jxb/eraa390](https://doi.org/10.1093/jxb/eraa390))

**NEW!!** Ceballos-Laita L, Gutierrez-Carbonell E, Takahashi D, Lonsdale A, **Abadía A**, Doblin MS, Bacic A, Uemura M, **Abadía J**, **López-Millán AF** (2020) Effects of excess manganese on the xylem sap protein profile of tomato (*Solanum lycopersicum*) as revealed by shotgun proteomic analysis. **Int J Mol Sci** 21, 8863 (doi: [10.3390/ijms21228863](https://doi.org/10.3390/ijms21228863))

**NEW!!** Arrizabalaga-Arriazu M, Gomès E, **Morales F**, Irigoyen JJ, Pascual I, Hilbert G (2020) High temperature and elevated carbon dioxide modify berry composition of different clones of grapevine (*Vitis vinifera* L.) cv. Tempranillo. **Front Plant Sci** 11, 1888 (doi: [10.3389/fpls.2020.603687](https://doi.org/10.3389/fpls.2020.603687))

**Davarpanah S**, Tehranifar A, Zarei M, Aran M, Davarynejad G, **Abadía J** (2020) Early season foliar iron fertilization increases fruit yield and quality in pomegranate. **Agronomy** 10, 832 (doi: [10.3390/agronomy10060832](https://doi.org/10.3390/agronomy10060832))

**Hosseini MS**, Samsampour D, Ebrahimi M, **Abadía J**, Najafabadi AS, Igartua E, Khanahmadi M (2020) Evaluation of glycyrrhizin contents in licorice (*Glycyrrhiza glabra* L.) under drought and soil salinity conditions using nutrient concentrations and biochemical traits as biomarkers. **Acta Physiol Plant** 42, 103 (doi: [10.1007/s11738-020-03090-4](https://doi.org/10.1007/s11738-020-03090-4))

Zahedi SM, Hosseini MS, **Abadía J**, Marjani M (2020) Melatonin foliar sprays elicit salinity stress tolerance and enhance fruit yield and quality in strawberry (*Fragaria × ananassa* Duch.). **Plant Physiol Biochem** 149, 313-323 (doi: [10.1016/j.plaphy.2020.02.021](https://doi.org/10.1016/j.plaphy.2020.02.021))

Izadi Z, Nejad AR, **Abadía J** (2020) Effects of Fe concentrations at different growth stages on flower production in pot marigold (*Calendula officinalis*). **Acta Physiol Plant**, 42, 6 (doi: [10.1007/s11738-020-3011-x](https://doi.org/10.1007/s11738-020-3011-x))

Escudero Welsch VP, Abreu I, del Sastre E, Tejada-Jiménez M, Larue C, Novoa-Aponte L, Wen J, Mysore K, **Abadía J**, Argüello JM, Castillo-Michel H, **Álvarez-Fernández A**, Imperial J, González-Guerrero M (2020) Nicotianamine synthase 2 is required for symbiotic nitrogen fixation in *Medicago truncatula* nodules. **Front Plant Sci**, accepted (doi: [10.3389/fpls.2019.01780](https://doi.org/10.3389/fpls.2019.01780))



**Morales F**, Ancín M, Fakhret D, Gonzalez-Torralba J, Gamez AL, Seminario A, Soba D, Ben Mariem S, Garriga M, Aranjuelo I (2020) Photosynthetic metabolism under stressful growth conditions as bases for crop breeding and yield improvement. **Plants** 9, 88 (doi: [10.3390/plants9010088](https://doi.org/10.3390/plants9010088))

A Larbi, H Kchaou, B Gaaliche, K Gragouri, H Boulal, **F Morales** (2020) Supplementary potassium and calcium improves salt tolerance in olive plants. **Sci Hortic** 260, in press (doi: [10.1016/j.scienta.2019.108912](https://doi.org/10.1016/j.scienta.2019.108912))

**Gheshlaghi Z**, Khorassani R, **Abadía J**, **Álvarez-Fernández A**, **Luis-Villarroya A**, Fotovat A, Kafi M (2019) Glutathione supplementation prevents iron deficiency in *Medicago scutellata* grown in rock sand under different levels of bicarbonate. **Plant Soil**, in press (doi: [10.1007/s11104-019-04314-4](https://doi.org/10.1007/s11104-019-04314-4))

