

Research articles SCI 2018 (12)

NEW!! Amani A, **Vázquez S**, **Morales F**, Chaari A, **El-Jendoubi H**, **Abadía A**, Larbi A (2018) Prolonged artificial shade affects morphological, anatomical, biochemical and ecophysiological behavior of young olive trees (cv. Arbosana). **Sci Hortic** 241, 275-284 (doi: [10.1016/j.scienta.2018.06.089](https://doi.org/10.1016/j.scienta.2018.06.089))

Arrizabalaga M, **Morales F**, Oyarzun M, Delrot S, Gomès E, Irigoyen JJ, Hilbert G, Pascual I (2018) Tempranillo clones differ in the response of berry sugar and anthocyanin accumulation to elevated temperature. **Plant Sci** 267, 74-83 (doi: [10.1016/j.plantsci.2017.11.009](https://doi.org/10.1016/j.plantsci.2017.11.009))

NEW!! **Ceballos-Laita L**, **Gutierrez-Carbonell E**, Imai H, **Abadía A**, Uemura M, **Abadía J**, **López-Millán A-F** (2018) Effects of manganese toxicity on the protein profile of tomato (*Solanum lycopersicum*) roots as revealed by two complementary proteomic approaches, two-dimensional electrophoresis and shotgun analysis. **J Proteomics** 185, 51-63 (doi: [10.1016/j.jprot.2018.06.016](https://doi.org/10.1016/j.jprot.2018.06.016))

Ceballos-Laita L, **Gutierrez-Carbonell E**, Takahashi D, **Abadía A**, Uemura M, **Abadía J**, **López-Millán A-F** (2018) Effects of Fe and Mn deficiencies on the protein profiles of tomato (*Solanum lycopersicum*) xylem sap as revealed by shotgun analyses. **J Proteomics** 170, 117-129 (doi: [10.1016/j.jprot.2017.08.018](https://doi.org/10.1016/j.jprot.2017.08.018)). **Data in Brief** 17, 512-516 (doi: [10.1016/j.dib.2018.01.034](https://doi.org/10.1016/j.dib.2018.01.034))

NEW!! **Díaz-Benito P**, Banakar R, Rodríguez-Menéndez SM, Capell T, Pereiro R, Christou P, **Abadía J**, Fernández B, **Álvarez-Fernández A** (2018) Distribution of iron and zinc between the embryo and endosperm of rice (*Oryza sativa* L.) seeds in contrasting nicotianamine/2'-deoxymugineic acid scenarios. **Front Plant Sci** 9, 1190 (doi: [10.3389/fpls.2018.01190](https://doi.org/10.3389/fpls.2018.01190))

Davarpanah S, Tehranifar A, **Abadía J**, Val J, Davarynejad G, Aran M, Khorassani R (2018) Foliar calcium fertilization reduces fruit cracking in pomegranate (*Punica granatum* cv. Ardestani). **Sci Hortic** 230, 86-91 (doi: [10.1016/j.scienta.2017.11.023](https://doi.org/10.1016/j.scienta.2017.11.023))

Hosseini MS, Zahedi SM, **Abadía J**, Karimi M (2018) Effects of postharvest treatments with chitosan and putrescine to maintain quality and extend shelf-life of two banana cultivars. **Food Sci Nutr** 6, 1328-1337 (doi: [10.1002/fsn3.662](https://doi.org/10.1002/fsn3.662))

NEW!! Hosseini MS, Samsampour D, Ebrahimi M, **Abadía J**, Khanahmadi M (2018) Effect of drought stress on growth parameters, osmolyte contents, antioxidant enzymes and glycyrrhizin synthesis in licorice (*Glycyrrhiza glabra* L.) grown in the field. **Phytochemistry**, accepted.

Kizildeniz T, JJ Irigoyen, I Pascual, **F Morales** (2018) Simulating the impact of climate change (elevated CO₂ and temperature, and water deficit) on the growth of red and white Tempranillo grapevine in three consecutive growing seasons (2013-2015). **Agric Water Manag** 202, 220-230 (doi: [10.1016/j.agwat.2018.02.006](https://doi.org/10.1016/j.agwat.2018.02.006))



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NEW!! Lefèvre F, Fourmeau J, Baijot A, Cornet T, **Abadía J, Álvarez-Fernández A, Boutry M** (2018) A *Nicotiana tabacum* ABC transporter secretes O-methylated coumarins in response to iron deficiency. **J Exp Bot** 18, 4419–4431 (doi: [10.1093/jxb/ery221](https://doi.org/10.1093/jxb/ery221))

NEW!! Salazar-Parra C, Aranjuelo I, Pascual I, Aguirreolea J, Sánchez-Díaz M, Irigoyen JJ, Araus JL, **Morales F** (2018) Is vegetative area, photosynthesis or grape C uploading involved in the climate change-related grape sugar/anthocyanin decoupling in Tempranillo? **Photosynth Res**, accepted (doi: [10.1007/s11120-018-0552-6](https://doi.org/10.1007/s11120-018-0552-6))

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Morales F, Pavlovic A, Abadía A, Abadía J (2018) In Advances in photosynthesis and respiration 44: Photosynthesis in Poor Nutrient Soils, in Compacted Soils, and under Drought, Chapter 13, pp xxx-xxx. Adams III WW, Terashima I (eds). Springer International Publishing AG. ISBN: xxxxx. (doi: [10.1007/978-3-319-93594-2_13](https://doi.org/10.1007/978-3-319-93594-2_13))

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NEW!! Ben Abdallah H, Mai H-G, **Álvarez-Fernández A, Abadía J, Bauer P** (2017) Natural variation reveals contrasting abilities to cope with alkaline and saline soil among different *Medicago truncatula* genotypes. **Plant Soil** 418, 45-60 (doi: [10.1007/s11104-017-3379-6](https://doi.org/10.1007/s11104-017-3379-6)).

NEW!! Banakar R, **Álvarez-Fernández A, Díaz-Benito P, Abadía J, Capell T, Christou P** (2017) Phytosiderophores determine thresholds for iron and zinc accumulation in biofortified rice endosperm while inhibiting the accumulation of cadmium. **J Exp Bot** 68, 4983–4995 (doi: [10.1093/jxb/erx304](https://doi.org/10.1093/jxb/erx304)).

Leibar U, Pascual I, **Morales M, Aizpurua A, Unamunzaga O** (2017) Grapevine nutritional status and K concentration of must under future expected climatic conditions texturally different soils. **J Soil Sci Plant Nutr** 17, 385-397 (doi: [10.4067/S0718-95162017005000028](https://doi.org/10.4067/S0718-95162017005000028)).

Davarpanah S, Tehranifar A, Davarynejad G, Aran M, Abadía J, Khorasani R (2017) Effects of foliar nitrogen fertilizers on the physical and chemical properties of pomegranate (*Punica granatum* cv. Ardestani) fruits. **Hortscience** 52, 288-294 (doi: [10.21273/HORTSCI11248-16](https://doi.org/10.21273/HORTSCI11248-16)).

Leibar U, Pascual I, **Morales F, Aizpurua A, Unamunzaga O** (2017) Grape yield and quality responses to simulated year 2100 expected climatic conditions under different soil textures. **J Sci Food Agric** 97, 2633-2640 (doi: [10.1002/jsfa.8086](https://doi.org/10.1002/jsfa.8086)).

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NEW!! Torres N, Goicoechea N, **Morales F**, Antolín MC (2017) Influencia de la inoculación micorrícica sobre el contenido fenólico de la vid (cv. Tempranillo) en condiciones de temperatura elevada. **Grandes cultivos** Febrero 2017, 30-33.

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Sisó-Terraza P, Luis-Villarroya A, Fourcroy P, Briat J-F, **Abadía A**, Gaymard F, **Abadía J, Álvarez-Fernández A** (2016) Accumulation and secretion of coumarinolignans and other coumarins by *Arabidopsis thaliana* roots in response to iron deficiency at high pH. **Front Plant Sci** 7, 1711 (doi: [10.3389/fpls.2016.01711](https://doi.org/10.3389/fpls.2016.01711)).

Solti A, Kovács K, Muller B, Vázquez S, Tóth B, **Abadía J**, Fodor F (2016) Does a voltage-sensitive outer envelope transport mechanism contribute to the chloroplast iron uptake? **Planta**, 6, 1303–1313 (doi: [10.1007/s00425-016-2586-3](https://doi.org/10.1007/s00425-016-2586-3)).

Gutierrez-Carbonell E, Takahashi D, Lüthje S, González-Reyes JA, Contreras-Moreira B, Uemura M, **Abadía J, López-Millán AF** (2016) A shotgun proteomic approach reveals that Fe deficiency causes marked changes in the protein profiles of plasma membrane and detergent resistant microdomain preparations from *Beta vulgaris* roots. **J Proteom Res**, 15, 2510–2524 (doi: [10.1021/acs.jproteome.6b00026](https://doi.org/10.1021/acs.jproteome.6b00026)).

Davarpanah S, Davarynejad G, **Abadía J**, Khorasani R (2016) Effects of foliar applications of zinc and boron nano-fertilisers on pomegranate (*Punica granatum* cv. Ardestani) fruit yield and quality. **Sci Hortic** 210, 57-64 (doi: [10.1016/j.scienta.2016.07.003](https://doi.org/10.1016/j.scienta.2016.07.003)).

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Martínez-Lüscher J, Kizildeniz T, Vučetić V, Dai Z, Luedeling E, van Leeuwen C, Gomès E, Pascual I, Irigoyen JJ, **Morales F**, Delrot S (2016) Sensitivity of grapevine phenology to water availability, temperature and CO₂ concentration. **Front Environ Sci** 4, 48 (doi: [10.3389/fenvs.2016.00048](https://doi.org/10.3389/fenvs.2016.00048)).

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N Torres, N Goicoechea, **F Morales**, MC Antolín (2016) Berry quality and antioxidant properties in *Vitis vinifera* L. cv. Tempranillo as affected by clonal variability, mycorrhizal inoculation and temperature. **Crop Pasture Sci** 67, 961–977 (doi: [10.1071/CP16038](https://doi.org/10.1071/CP16038)).

F Morales, MC Antolín, I Aranjuelo, N Goicoechea, I Pascual (2016) From vineyards to controlled environments in grapevine research: investigating responses to climate change scenarios using fruit-bearing cuttings. **Theor Exp Plant Physiol** 28, 171-191 (doi: [10.1007/s40626-016-0065-7](https://doi.org/10.1007/s40626-016-0065-7)).

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NEW!! Kizildeniz T, Mekni I, Santesteban H, Pascual I, **Morales F**, Irigoyen JJ (2015) Effects of climate change including elevated CO₂ concentration, temperature and water deficit on growth, water status, and yield quality of grapevine (*Vitis vinifera* L.) cultivars. **Agric Water Manag** 159: 155-164 (doi: [10.1016/j.agwat.2015.06.015](https://doi.org/10.1016/j.agwat.2015.06.015)).

Martínez-Lüscher J, **Morales F**, M Sánchez-Díaz, S Delrot, J Aguirreolea, E Gomés, I Pascual (2015) Climate change conditions (elevated CO₂ and temperature) and UV-B radiation affect grapevine (*Vitis vinifera* cv. Tempranillo) leaf carbon assimilation, altering fruit ripening rates. **Plant Sci** 236: 168-176 (doi: [10.1016/j.plantsci.2015.04.001](https://doi.org/10.1016/j.plantsci.2015.04.001)).

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Dissemination papers 2015 (1)

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