



List of Publications (only included the most relevant publications in the last 5 years)

1. Toribio, R., Navarro A., Castellano, M.M. (2024). HOP stabilizes the HSFA1a and plays a main role in the onset of thermomorphogenesis. ***Plant, Cell and Environment***, 47(11): 4449-4463. <https://doi.org/10.1111/pce.15036>. **D1, Plant Sciences, IF 7.9.**
2. Castellano, M.M., Muñoz, A., Okeke, I., Novo-Uzal, E., Toribio, R., Mangano, S. (2024). The role of the co-chaperone HOP in plant homeostasis during development and stress ***Journal of Experimental Botany***, 14:4274-4286. <https://doi.org/10.1093/jxb/erae013>. **D1, Plant Sciences, IF 6.9.**
3. Mangano S., Muñoz A., Fernández-Calvino L., Castellano M.M. (2023) HOP co-chaperones contribute to GA signaling by promoting the accumulation of the F-box protein SNE in Arabidopsis. ***Plant Communications***. Jan 2;100517. <https://doi.org/10.1016/j.xplc.2023.100517>. **D1, Plant Sciences, IF 8.6.**
4. Arnaiz, A., Romero-Puertas, M.C., Santamaria, M.E., Rosa-Diaz, I., Arbona, V., Muñoz, A., Grbic, V., González-Melendi, P., M. Mar Castellano, M., Sandalio, L.M., Martinez, M., Diaz, I. (2023). The Arabidopsis thioredoxin TRXh5 regulates the S-nitrosylation pattern of the TIRK receptor being both proteins essential in the modulation of defences to *Tetranychus urticae*. *Redox Biology* 67, 102902. doi: 10.1016/j.redox.2023.102902. **D1 Biochemistry IF 10.7**
5. Muñoz, A., Mangano, S., Toribio, R., Fernández-Calvino, L., del Pozo, J.C., Castellano, M.M. (2022). The co-chaperone HOP participates in TIR1 stabilization and in auxin response in plants. ***Plant, Cell and Environment*** 45(8):2508-2519. <https://doi.org/10.1111/pce.14366>. **D1, Plant Sciences, IF 7.2.**
6. Muñoz A., Santamaria M. E., Fernández-Bautista N[¥], Mangano S.[¥], Toribio R.[¥], Martínez M., Berrocal-Lobo M., Díaz I., Castellano M. M. (2021). HOP3 participates in JA signaling through the regulation of COI1 activity in Arabidopsis. ***Plant Physiology***, 187: 1679–1689. <https://doi.org/10.1093/plphys/kiab401>. **D1, Plant Sciences, IF 6.9. Highlighted by its relevance in a News and Views in Plant Physiology journal.**
7. Castellano M. M.* and Merchante C.* (2021). Peculiarities of the regulation of translation initiation in plants. ***Current Opinion in Plant Biology***. 63: 102073. doi: 10.1016/j.pbi.2021.102073. **D1, Plant Sciences, IF 8.36.**
8. Toribio R, Muñoz A, Sánchez F, Ponz F and Castellano M. M. (2021). High overexpression of CERES, a plant regulator of translation, induces different phenotypical defense responses during TuMV infection. ***Plant Journal***. 107:256-267. doi: 10.1111/tpj.15290. **D1, Plant Sciences, IF 6.1.**
9. Toribio R[¥], Mangano S[¥], Fernández-Bautista N., Muñoz A*, Castellano M.M.*. (2020) HOP, a co-chaperone involved in response to stress in plants. ***Front. Plant Sci.*** 11: 591940. doi: 10.3389/fpls.2020.591940. **D1, Plant Sciences, IF 4.42.**
10. Berrocal-Lobo M.*, Toribio R. Castellano M.M. *. (2020) eIF2 α phosphorylation by GCN2 is induced in the presence of chitin and plays an important role in plant defense against *B. cinerea* infection. ***Int. J. Mol Sci.*** 21: 7335. doi:10.3390/ijms21197335. **Q1, Biochemistry and Molecular Biology, IF 4.56.**



11. Toribio R.*, Muñoz A.*, Castro-Sanz A.B.*, Merchante C., Castellano M.M. (Dic, 2019) CERES is an eIF4E interacting protein that modulates translation in plants. ***Nature Plants***. 5: 1283-1296. doi: 10.1038/s41477-019-0553-2. **D1, Plant Sciences, IF 13.26. Recommended by F100Prime for its special relevance to the field doi: 10.3410/f.737059425.793569228 and 10.3410/f.737059425.793570471.**

In the last 5 years, I am also co-author in Huertas et al., ***Plant Cell***, 2019, doi: 10.1105/tpc.18.00689, **D1 IF 9.6** and Tellez-Robledo et al., ***Plant Journal***, 2019. doi: 10.1111/tpj.14416, **D1 IF 6.1.**