

List of publications

1. Chandran J.E.A., Finkler A., Hait T.A., Kiere Y., David S., Pasmanik-Chor M. and **Shkolnik D.** (2023) Calcium regulation of the Arabidopsis Na⁺/K⁺ transporter HKT1;1 improves seed germination under salt stress, *Plant Physiology*, *in press*.
2. Mishra R., Shtenberg M., **Shkolnik D.**, Anfoka G., Czosnek H. and Gorovits R. (2022) Interplay between abiotic (drought) and biotic (virus) stresses in tomato plants, *Molecular Plant Pathology*, **23**, 475-488.
3. Dilip I.P., Kasivelu G., Selvaraj T., Malaichamy K., Raguraman V., Sumit C. and **Shkolnik D.** (2021) Influence of nanoscale micro-nutrient α-Fe2O3 on seed germination, seedling growth, translocation, physiological effects and yield of rice (*Oryza sativa*) and maize (*Zea mays*), *Plant Physiology and Biochemistry*, **162**, 564-580.
4. Kasivelu G., Selvaraj T., Malaichamy K., Kathickeyan D., **Shkolnik D.** and Chatuvedi S. (2020) Nano-micronutrients [γ-Fe2O3 (iron) and ZnO (zinc)]: green preparation, characterization, agro-morphological characteristics and crop productivity studies in two crops (rice and maize), *New Journal of Chemistry*, **44**, 11373-11383.
5. Blumrosen G., Wexler Y., **Shkolnik D.** and Golberg A. (2020) Efficient Modeling of Plant Short- and Long-Term Behavioral Responses to a Stimuli, *IEEE 20th International Conference on BioInformatics and BioEngineering (BIBE)* (pp. 342-348, doi: 10.1109/BIBE50027.2020.00062).
6. **Shkolnik D.**, Finkler A., Pasmanik-Chor M. and Fromm H. (2019) CALMODULIN-BINDING TRANSCRIPTION ACTIVATOR 6: A Key Regulator of Na⁺ Homeostasis during Germination, *Plant Physiology*, **180**:1101-1118.
7. **Shkolnik D.**, Nuriel R., Bonza M.C., Costa A. and Fromm H. (2018) MIZ1 regulates ECA1 to generate a slow, long-distance phloem-transmitted Ca²⁺ signal essential for root water tracking in Arabidopsis, *Proceedings of the National Academy of Sciences of the United States of America* **115**:8031-8036.
8. **Shkolnik D.** and Fromm H. (2016) The Chododny-Went theory does not explain hydrotropism, *Plant Science*, **252**:400-403 (invited review).
9. Krieger G.* **Shkolnik D.***, Miller G. and Fromm H. (2016) Reactive oxygen species tune root tropic responses, *Plant Physiology*, **172**:1209-1220.
* Equal contribution.
10. **Shkolnik D.**, Krieger G., Nuriel R. and Hillel F. (2016) Hydrotropism: Root Bending Does Not Require Auxin Redistribution, *Molecular Plant*, **9**:575-577.
11. Golan I., Dominguez P.G., Konrad Z., **Shkolnik D.I.**, Carrari F. and Bar-Zvi D. (2014) Tomato ABSCISIC ACID STRESS RIPENING (ASR) Gene Family Revisited. *PLoS One* **9**:e107117.
12. **Shkolnik D.I.**, Adler G. and Bar-Zvi D. (2013) ABI4 downregulates expression of the sodium transporter HKT1;1 in Arabidopsis roots and affects salt tolerance. *Plant Journal: for cell and molecular biology* **73**:993-1005.
13. **Shkolnik D.I.** and Bar-Zvi D. (2012) A simple physiologically relevant double-agar-layer method for post-germination treatment of seedlings. *Plant Growth Regulation* **67**:305-310.

14. **Shkolnik D.I.** and Bar-Zvi D. (2011) Expression of the *ABSCISIC ACID INSENSITIVE 4 (ABI4)* in developing *Arabidopsis* seedlings. *Plant Signaling & Behavior* **6**:5, 1-3.
15. **Shkolnik D.I.** and Bar-Zvi D. (2010) *ABI4* mediates abscisic acid and cytokinin inhibition of lateral root formation by reducing polar auxin transport in *Arabidopsis*. *The Plant Cell* **22**:3560-3573.
16. **Shkolnik D.** and Bar-Zvi D. (2008) Tomato ASR1 abrogates the response to abscisic acid and glucose in *Arabidopsis* by competing with *ABI4* for DNA binding. *Plant Biotechnology Journal* **6**:368-378.
17. Goldgur, Y., Rom, S., Ghirlando, R., Shandrin, N., **Shkolnik, D.**, Konrad, Z. and Bar-Zvi, D. (2007) Desiccation and Zinc-binding induces transition of the water-stress and salt-stress regulated plant specific ASR1 protein from natively unfolded state. *Plant Physiology* **143**:617–628.