
Personal Details

Date of birth: 26/04/1982

Nationality: Israeli and British.

Family status: Married with two daughters.

Contact info

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Higher Education

The Hebrew University of Jerusalem, Israel

B.Sc. Agri. cum laude (2011)

Agroecology and plant protection with specialization in biotechnology.

Ph.D. Direct course (2021)

M.Sc. and direct Ph.D. program, Soil Chemistry.

Supervisors: Prof. Moshe Shenker and Prof. Amnon Schwartz

"Root-zone levels of oxygen and redox in treated wastewater irrigated orchards planted in clayey soils and implications for the trees".

Postdoctoral Fellow (2021-present)

Dan Yakir lab.

Drivers of soil organic matter accumulation in dryland forests

Tasks and Functions in Academic and Research Institutions

The Hebrew University of Jerusalem, Israel (2012-2020)

- Lecturer, "Soil testing methods" (Undergraduate course)
- Lecturer "Introduction to Soil Science for the Viticulture and Enology M.Sc. Program" (Preparatory course for M.Sc., taught in English).
- Lecturer and coordinator "Treated Wastewater: Reclamation, Irrigation and Environmental Aspects" (Graduate course for foreign students, taught in English).
- Tutor "Physics for Life Sciences" (Undergraduate course) in the university's 'Unit for Advancing Equal Opportunities, Excellence and Diversity'.
- Teaching assistant in the following courses:
 - "Soil chemistry" (Graduate course)
 - "Soil fertility and fertilizer use" (Undergraduate course)
 - "Soil testing methods" (Undergraduate course)
 - "Physics for life sciences" (Undergraduate course)

The Israel Society of Soil Science, Israel (2016-2019)

Board member, the Israel Society of Soil Science, including organization of the 2017, 2018 and 2019 society conventions, editing of abstract books, and formation of an internet site and Facebook© group for the society.

Awards and grants

- "Keren Hashefa" scholarship, 2008-2010
- Dean's list for outstanding student 2008, 2009, and 2010
- The Israel Ministry of Agriculture and Rural Development, "The Whole Organism" scholarship 2012, 2014
- Rector's list for outstanding student 2014
- "Danny Bruner" scholarship, 2014
- "Robert H. Smith" award for excellent Ph.D. students, 2015-17
- Prize for brief research presentation on Faculty Day, 2017

Publications

Manuscripts

1. Erel, R., **Yalin, D.**, Gérard, F., Kushmaro-Bier, A., Li, Q., Toren, N., (Under review) Soil properties and growing duration determine phosphorus use efficiency of polyphosphate versus orthophosphate fertilizer. Plant and Soil.
2. Itkin, D., Bar-tal, A., Crouvi, O., Dor, M., Erel, R., Gross, A., Levy, G., Minz, D., Rozenstein, O., **Yalin, D.**, Eshel, G., (2022). Soil priorities in Israel. Geoderma Regional. DOI: [10.1016/j.geodrs.2022.e00505](https://doi.org/10.1016/j.geodrs.2022.e00505)
3. **Yalin, D.**; and Shenker, M., (2022). Potentiometric redox measurements in the environment - a novel perspective on method powers and limitations. Biogeochemistry. 158, 327-343 DOI: [10.1007/s10533-022-00901-3](https://doi.org/10.1007/s10533-022-00901-3)
4. **Yalin, D.**, Shenker, M., Schwartz, A., Eshel, A., Tarchitzky, J., (2022). How does irrigation with treated wastewater affect soil oxygen dynamics in avocado (*Persea americana*) orchards planted in clayey soils and implications to plant Na homeostasis. Acta Horticulturae. 1333: IX International Symposium on Mineral Nutrition of Fruit Crops DOI: [10.17660/ActaHortic.2022.1333.13](https://doi.org/10.17660/ActaHortic.2022.1333.13)
5. Nemera, D., Levy, G. J., Cohen, S., Shenker, M., **Yalin, D.**, Gothelf, R., Tarchitzky, J., Bar-Tal, B., (preprint, 2021). Remediation measures for mitigating degraded properties of a clayey soil caused by treated wastewater irrigation. AgriRxiv. DOI: [10.31220/agriRxiv.2021.00073](https://doi.org/10.31220/agriRxiv.2021.00073)
6. **Yalin, D.**, Schwartz, A., Tarchitzky, J., Shenker, M. (2021). Soil oxygen and water dynamics underlying hypoxic conditions in the root-zone of avocado irrigated with treated wastewater in clay soil. Soil and Tillage Research. 212, 105039. DOI: [10.1016/j.still.2021.105039](https://doi.org/10.1016/j.still.2021.105039)

7. **Yalin, D.**, Schwartz, A., Assouline, S., Narkis, K., Eshel, A., Levin, A. G., Lowengart-Aycicegi, A., Tarchitzky, J., Shenker, M. (2017). Insights from “The Hidden Half”: The impact of root-zone oxygen and redox dynamics on the response of avocado to long-term irrigation with treated wastewater in clayey soil. Israel Journal of Plant Sciences. *64(1):1-18*.
DOI: 10.1080/07929978.2017.1288478
8. Brand-Klibanski, S., **Yalin, D.**, Shenker, M. (2014). Comment on “Formations of Hydroxyapatite and Inositol Hexakisphosphate in Poultry Litter during the Composting Period: Sequential Fractionation, P K-edge XANES and Solution ³¹P NMR Investigations”. Environmental Science & Technology. *48(16)*, 9955-9956.
DOI: 10.1021/es502662z