

Tomer Malchi – Curriculum Vitale

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Personal information:

Date of Birth: 25.1.1982

Office Address: The Weitz Center for Sustainable Development, at the Robert H. Smith Faculty of Agriculture, Food and Environment; P.O. Box 12, Rehovot 76100 Israel.

Higher Education:

2001 – 2004: B.Sc., Industrial and Labor relations, Cornell University, Ithaca, NY.

2008 – 2011: B.Sc., Agr. The Hebrew University of Jerusalem, Soil and Water Sciences.

2011 – 2014: M.Sc., Agr. The Hebrew University of Jerusalem, Soil and Water Sciences.
Thesis: Irrigation of root vegetables with treated wastewater: Evaluating uptake and translocation of pharmaceuticals. Supervisors Benny Chefetz and Moshe Shenker

2015 – 2021 Ph.D., The Hebrew University of Jerusalem, Soil and Water Sciences.
Thesis: Psychoactive Drugs in Plants: Pharmacokinetics and Pharmacodynamics
Supervisors Benny Chefetz and Moshe Shenker

Experience

2016 – Current **CEO and founding member, CultivAid.**

- CultivAid is not for profit social enterprise that specializes in Agricultural development, focusing on research and development (R&D), extension services, market development, and the crucial interconnections between these elements.
- Management and development of multiple projects in East Africa which includes planning implementation, capacity building with public and private sector in the horticulture, livestock and water.
- Developing unique long term programing impacting agricultural value chains, positively impacting millions of lives through improved income and nutrition.

2022– Current **Academic Head,** Environmental Studies program, International School of the Faculty of Agriculture.

- Redeveloped the program to enable a holistic approach to the environment from an agricultural perspective.
- Development of new courses that provide a practical approach to solving changes related to climate change.
- Selection and guidance to international students in the program in relation to studies, research and advanced degrees.

2018 – 2021 **Board Member,** Society for International Development (SID), Israel

- Establishment of professional community of practice in Israel to enrich and support collaboration development between organizations, companies and experts in various sectors.
- Development and support to Israel-Ethiopia Entrepreneurship program in order to promote cooperation between young Israeli and Ethiopian Entrepreneurs.

2011 – 2016 **Board Member and Project Manager,** Engineers Without Borders, Israel.

- Coordination of chapter development, fundraising and grant writing while providing support for different projects throughout Israel.
- Coordination of EWB projects in Tigray, Ethiopia. Projects include the design and

implementation of demonstration farms and low-tech solutions in agriculture. Design and coordination of agriculture training and workshops. Over \$500,000 Fundraised for projects.

2010 – 2013 Environmental Educator, Council for the Beautification of Israel

- Led workshops and lectures on a variety of environmental issues
- Provided tours and lectures at the Shafdan, Wastewater treatment plant

2008 – 2010 Water Conservation specialist, "Ain Mayim", Owner

- Founded and operated company offering water saving devices for home and commercial use.
- Door to door sales of water saving devices while providing education on water conservation.

Publications:

- Madmon M., Zvuluni Y., Mordehay V., Hindi A., Malchi T., Drug, E., Shenker, M., Weissberg, A., Chefetz, B. 2023. Pharmacokinetics of the Recalcitrant Drug Lamotrigine: Identification and Distribution of Metabolites in Cucumber Plants. Environmental Science & Technology.
- Malchi T., Eyal S., Czosnek H., Shenker M. & Chefetz B. 2021 Plant pharmacology: Insights into in-planta kinetic and dynamic processes of xenobiotics, Critical Reviews in Environmental Science and Technology.
- Fu, Q., Malchi T., Carter L., Li H., Gan J.J., Chefetz, B. 2019. Pharmaceutical and Personal Care Products: From Wastewater Treatment into Agro-food Systems. Environ. Sci. Technol.
- Goldstein, M., Malchi, T., Shenker., M and Chefetz, B., 2018. Pharmacokinetics in Plants: Carbamazepine and Its Interactions with Lamotrigine. Environ. Sci. Technol 52 (12): 6957–64.
- Paz, A., Tadmor G., Malchi T., Blotvogel J., Borch T., Polubesova T., Chefetz B., 2016. Fate of carbamazepine, its metabolites, and lamotrigine in soils irrigated with reclaimed wastewater: Sorption, leaching and plant uptake. Chemosphere 160: 22-29
- Malchi, T., Maor., J., and Chefetz, B., 2015. Comments on “Human health risk assessment of pharmaceuticals and personal care products in plant tissue due to biosolids and manure amendments, and wastewater irrigation. Environ. Int.82:110-2
- Malchi, T., Maor., J., Tadmor., G., Shenker., M and Chefetz, B., 2014. Irrigation of root vegetables with treated wastewater: Evaluating uptake of pharmaceuticals and the associated human health risks. Environ. Sci. Technol 48: 9325-33.
- Brook, I., Malchi, T., and Nir, S. 2013. Removal of anionic detergents from water and treatment of gray water by micelle–clay composites. DesalinWater Treat, 1–9.

Scholarships

- The Hoffman Leadership and Responsibility Fellowship Program
- Robert H. Smith prize for excellence in agriculture