

Curriculum Vitae

2023

Personal details:

Name: Ofer Guy
Address: P.O. Box 190, Midreshet Ben Gurion 84990000 Israel
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Date and place of birth: January 6, 1977; Jerusalem, Israel
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Education

M.Sc. in Desert Studies 2003–2006

Department of Hydrology and Microbiology
Albert Katz International School for Desert Studies
Ben-Gurion University of the Negev
Sde-Boqer Campus 84990, Israel
Supervisors:
Prof. Amit Gross, BGU, and Dr. Pinhas Fine, ARO Institute

Title of thesis:

“Entrapment of Nitrogen from Fowl Manure Extracts for Fertigation in Organic Agriculture

B.Sc. in Geology 2000–2003

Department of Geology and the Environment
Ben-Gurion University of the Negev
Beer-Sheva, Israel

Work experience

2012-present

Researcher and agronomist, Ramat Negev R&D. In charge of the introduction of new vegetables crops. The work includes the experimental design, conduct and analysis of the results. The outcome of these experiments is directed to assist the regional farmers. Expertise in growing desert truffles and acclimatizing wild desert plants.

Teaching – “Modern approach to growing vegetables”, for students from Vietnam and Nepal (2017) in the framework of Ramat Negev International Center for Agricultural train.

2006 - 2012

Research Technician, the Zuckerberg Water Institute with prof. Amit Gross. The work included several environmental projects; supervising students, designing and planning experiments, construction of reactors and growth chambers. Sampling and analysis of chemical and microbial samples of water, soil, plants and wastes.

Selected projects:

Waste and grey water treatments by vertical flow constructed wetlands.

Methane gas production from bio-sludge accumulated in fisheries.

Bio-gas production from industrial goat farm waste.

Purification of ground water nitrate contaminated by the use of denitrifying bacteria

1999–2003

Research assistant, the Department of Hydrology, the Jacob Blaustein Institutes of Desert Research, and the Department of Geology, Ben-Gurion University of the Negev:

Field Technician at Ramat-Hovav, with Prof. Eilon Adar.

Laboratory chemical analysis, with Dr. Shai Arnon,

Geophysical research at Sha'ar-Hagolan, for Dr. Shimon Feinshtein, the

Department of Geology

Publications:

1. Gideon Oron, Samuel Appelbaum, **Ofer Guy**, Reuse of brine from inland desalination plants with duckweed, fish and halophytes toward increased food production and improved environmental control, *Desalination*, Volume 549,2023, 116317, ISSN 0011-9164,<https://doi.org/10.1016/j.desal.2022.116317>.(<https://www.sciencedirect.com/science/article/pii/S001191642200772X>)
2. **Guy, O.**, Dai, N., Cohen, S., Bustan, A. Winter Strawberries Production in Greenhouse Soilless Culture under an Arid Climate-Cultivars, Phenology, Physiology, and Consequent Practices. In: Kafkas, N. E. Y., editor. *Strawberries [Working Title] [Internet]*. London: IntechOpen; 2022 [cited 2022 Nov 08]. Available from: <https://www.intechopen.com/online-first/81883> doi: 10.5772/intechopen.104390
3. First Steps to Domesticated Hairy Stork's-Bill (*Erodium crassifolium*) as a Commercial Pharmaceutical Crop for Arid Regions. **Guy, O.**; Cohen, S.; Koltai, H.; Mazuz, M.; Segoli, M.; Bustan, *Agronomy* 2021, 11, 1715. <https://doi.org/10.3390/agronomy11091715>
4. The effects of irrigation frequency on water and heat regimes in different substrates and their mixtures: tomato as a case study. A. Bar-Tal, H. Heller, R. Shawahnae, M. Amichai, S. Cohen, **O. Guy**, M. Segoli and M. Tuller. *ActaHortic*.2021. 1321.5 <https://doi.org/10.17660/ActaHortic.2021.1321.5>

5. Assessment of the Nutritional and Medicinal Potential of Tubers from Hairy Stork's-Bill (*Erodium crassifolium* L 'Hér), a Wild Plant Species Inhabiting Arid Southeast Mediterranean Regions Cohen, S.; Koltai, H.; Selvaraj, G.; Mazuz, M.; Segoli, M.; Bustan, A.; **Guy, O.** *Plants* 2020, 9, 1069.
6. Characterization of morphology, volatile profiles, and molecular markers in edible desert truffles from the Negev desert. Madhu Kamle, Einat Bar, Dalia Lewinsohn, Elinoar Shavit, Nurit Roth-Bejerano, Varda Kagan-Zur, **Ofer Guy**, Eli Zaadi, Efraim Lewinsohn, and Yaron Sitrit (2017) *Journal of Agricultural and Food Chemistry*. 65: 2977-2983.
7. The role of pre-symbiotic auxin signaling in ectendomycorrhiza formation between the desert truffle *Terfezia boudieri* and *Helianthemum sessiliflorum*. Tidhar Turgeman, Olga Lubinsky, Nurit Roth-Bejerano, Varda Kagan-Zur, Yoram Kapulnik, Hinanit Koltai, Eli Zaady, Shimon Ben-Shabat, **Ofer Guy**, Efraim Lewinsohn, Yaron Sitrit. (2016) *Mycorrhiza*. 26: 287- 298.
8. Domestication of plants for sustainable agriculture in drylands: Experience from the Negev Desert. Oren Shelef, **Ofer Guy**, Elaine Solowey, Michael Kam, A. Allan Degen & Shimon Rachmilevitch. (2016) *Arid Land Research and Management*. 30:, 209- 228.
9. A Novel Method for Combined Biowaste Stabilization and Production of Nitrate-Rich Liquid Fertilizer for Use in Organic Horticulture. Gross, A., **Guy, O.**, Posmanik, R., Fine, P., & Nejdat, A. (2011). *Water, Air, Soil Pollution*, 223(3), 1205–1214.
<https://doi.org/10.1007/S11270-011-0938-Y>

פרסומים בעברית:

פיתוח ריאקטור ביולוגי לייצור דשן נוזלי עתיר חנקה ויישום בחקלאות האורגנית. (2009). פוסמניק רועי. וחובריו. יבול שיא. נובמבר 2009 ע"מ 66-70
מגוגי ברי ועד כמהת המדבר. (2017) קו למושב. פברואר, 28-34

Press:

Ynet news (1 march 2018):

<https://www.ynet.co.il/articles/0,7340,L-5138946,00.html>

Israeli TV "Before the News" Chanel 13 (15 march 2018):

<https://www.facebook.com/before.the.news.reshet/videos/2101317813433192/>

The Riverdale press (16 may 2018): Deserts have some hidden treasures waiting to be

found:<http://riverdalepress.com/stories/deserts-have-some-hidden-treasures-waiting-to-be-found,65487>

France 2 Moyen-Orient (29 March 2018) Comment cultiver sur des terres arides? Dans le 20h d'hier soir, nous nous penchions sur l'exemple israélien. Reportage signé Arnaud Comte, Maxime Perez et [Hovsep Garo Nalbandian](https://www.facebook.com/France2MoyenOrient/videos/1601799016583398/): <https://www.facebook.com/France2MoyenOrient/videos/1601799016583398/>

Conferences

Use of Purslane (*Portulaca Oleracea*) grown on fish effluent, as a nutritious additive in herbivorous fish feeds. (2017) Drylands, Deserts and Desertification. Blaustein Institutes for Desert Research. November 8. (Poster).

International EU conference Cost 2007 presentation. Blaustein Institutes for Desert Research.

כמהת המדבר (2015) כנס הנגב. מועצה אזורית אשכול. (פוסטר, פרס שלישי)

Patents

Licensed patent in B.G Negev from my M.Sc. Project.

Military Service 1995-1998

Service in a combat unit, Israel Defense Forces

Rank at discharge: Sergeant Major (discharged from reserves 2018).

Languages

Hebrew, English

References

Available upon request