

# Maya Benami, PhD



Ramat Gan, Israel (American/Israeli Citizen)



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## SUMMARY OF SKILLS

- PhD-educated scientist adept at literature reviews, collating and analyzing data in order to present actionable insights
- Published scientific writer and editor, >12 scientific publications and one book on graduate science research
- Expert in [pathogen detection using microbiological and molecular procedures](#) (qPCR, DNA/RNA extraction, etc.)
- Knowledgeable about environmental and clinical monitoring techniques, sensors, and creation of laboratory protocols
- Capable project manager with R&D, marketing and regulatory background
- Proficient in Software: Microsoft Office Suite, Statistica, R, Sigmaplot, SQL, Python
- [Eight-time grant and time-management award winner](#)

## EXPERIENCE

**Scientific Editor, Writer, and Consultant, Freelance, Israel**

**Nov 2008- Present**

- Wrote grant proposals and scientific articles for publication for professors and start-ups
- Write white papers, FAQs, and advise on R&D for microbiology and alternative protein start-ups
- Technical writing and editing of informational booklets for start-ups
- Translated and advised on layout of scientific resumes from Hebrew to English
- English editing and scientific consulting on graduate students' theses
- Created a resource manual for science students and published as an [e-book](#)

**Scientific Editor and Post-Doctoral Researcher, Dr. David Meiri's Lab**

**Aug 2016-Dec 2018**

*Cancer Biology Technion Israel Institute of Science and Technology, Haifa, Israel*

- Wrote literature reviews on cannabinoid effects on differing disease-types for professorial presentations
- Maintained and updated several databases of the latest scientific developments in medical cannabis research associated with cancer, epilepsy, pluripotent stem cells, metabolic and neurological syndromes, cannabinoid detection techniques
- Updated and presented latest scientific writing skills to the laboratory group
- Wrote and edited scientific documents, including: PhD proposals, grant applications, scholarship requests, and scientific publications

**Scientific Documentation Specialist, Groundwork Bioag, Ltd. Marketing Division**

**Nov 2016-Dec 2018**

*Moshav Mazor, Israel*

- Managed, analyzed, and summarized agricultural parameter data from local and international field trials
- Generated product brochures from compiled agricultural field trial data
- Created and managed documentation for [FAQ](#), state, country, and agency-specific registration purposes
- Maintained and routinely updated multiple databases on mycorrhizal species, crop compatibility, and technologies
- Researched and compiled information for fungicide, pesticide, insecticide, and material compatibility lists
- Wrote a book chapter on the economic potential of fungal biotechnology ("Book Chapter, page 2)
- Technical writing and editing of case studies and internal lab protocols

## EDUCATION

**Doctor of Philosophy**, Environmental Microbiology & Hydrology  
Ben-Gurion University of the Negev (2009-2016)

**Sde Boker, Israel**

**Bachelor of Science in Biology** (Cell and Molecular Biology)  
Berea College (2004-2008)

**Berea, Kentucky, USA**

<b>RELEVANT COURSEWORK</b>	Pharmacology	Microbiology	Histology	Chemistry	Genetics	Bioinformatics	R <sup>®</sup>
	Molecular Biology	Physiology	Epigenetics	Statistics	Physics	Organic Chemistry	

**LANGUAGES** English: Native speaker  
 Hebrew: Professional working proficiency  
 Spanish: Professional working proficiency

## PUBLICATIONS

### Book

1. **Benami, M.** 2016. [The Guide for Graduate Science Research: Over 200 Sanity-Saving Tips for Graduate Student Scientists](#). Kindle Edition. ISBN:978-0-9983862-0-1

### Book Chapter

1. **Benami, M., Y. Isack, D. Grotzky, D. Levy, Y. Kofman, H. Nevalainen (Ed).** 2019. [The Economic Potential of Arbuscular Mycorrhizal Fungi in Agriculture](#). Grand Challenges in Fungal Biotechnology. Springer Nature Switzerland AG.

### Scientific manuscripts

1. Baram, L., Peled, E., Berman, P., Yellin, B., Besser, E., **Benami, M.**, Luria, I., Lewitus G.M., Meiri, D. 2019. [The heterogeneity and complexity of Cannabis extracts as antitumor agents](#). *Oncotarget*. 10:4091-4106.
2. Berman, P., Futoran, K., Lewitus, G. M., Mukha, D., **Benami, M.**, Shlomi, T., Meiri, D. 2018. [A new ESI-LC/MS approach for comprehensive metabolic profiling of phytocannabinoids: A step towards understanding the clinical effects of Cannabis](#). *Nature Scientific reports*. 8(1): 14280.
3. Ziemba, C., Khavkin, M., Priftis, D., Acar, H., Mao, J., **Benami, M.**, Gottlieb, M., Tirrell, M., Kaufman, Y. & Herzberg, M. 2018. [Antifouling Properties of a Self-Assembling Glutamic Acid-Lysine Zwitterionic Polymer Surface Coating](#). *Langmuir*. 35(5): 1699-1713.
4. **Benami, M.**, O. Gillor, A. Gross. 2016. [Potential microbial hazards from graywater reuse and associated matrices: A review](#). *Water Research*. 106: 183-195.
5. **Benami, M.**, A. Busgang, O. Gillor, A. Gross. 2016. [Quantification and risks associated with bacterial aerosols near greywater treatment systems](#). *Science of the Total Environment*. 562: 344-352.
6. **Benami, M.**, O. Gillor, A. Gross. 2016. [Potential health and environmental risks associated with onsite greywater reuse – a review](#). *The Built Environment*. 42(2): 212-229.
7. Orlofsky, E., M. **Benami**, A. Gross, M. Dutt, O. Gillor. 2015. [Rapid MPN-qPCR screening for pathogens in soil, air, water, and agricultural produce](#). *Water, Air, and Soil Pollution*. 226(9): 1-10.
8. Orlofsky, E., N. Bernstein, M. Sacks, A. Vonshak, M. **Benami**, A. Kundu, M. Maki, W. Smith, S. Wuertz, K. Shapiro, O. Gillor. 2015. [Comparable levels of microbial contamination in soil and on tomato crops after drip irrigation with treated wastewater or potable water](#). *Agriculture, Ecosystems & Environment*. 215: 140-150.
9. **Benami, M.**, O. Gillor, A. Gross. 2015. [The question of pathogen quantification in disinfected graywater](#). *Science of the Total Environment*. 506-507: 496–504.
10. **Benami, M.**, M. Herzberg, O. Gillor, A. Gross, A. Vonshak, E. Orlofsky. 2013. [Assessment of Pathogenic Bacteria in Graywater Systems and Irrigated Soils](#). *Science of the Total Environment*. 458-460: 298-302.
11. Abramson, A., M. **Benami**., N. Weisbrod. 2013. [Adapting Enzyme-Based Microbial Water Quality Analysis to Remote Areas in Low-Income Countries](#). *Environmental Science and Technology*. 47 (18): 10494–10501.

**ADDITIONAL AWARDS, HONORS, EXPERIENCE, & CERTIFICATIONS listed on [LinkedIn](#) page**