Personal information:

Family name, First name: Vardi, Assaf; Date of birth: 11 July 1970; Nationality: Israeli Unique identifier: <u>https://orcid.org/0000-0002-7079-0234</u> URL for web site: <u>http://www.weizmann.ac.il/plants/vardi/home</u>

Education

2006-2009	Postdoctoral Fellow, Rutgers University, Institute of Marine and Coastal
	Sciences, NJ, USA.
2004-2006	Marie Curie Postdoctoral Fellow, Ecole Normale Superieure, Ecology and
	Evolutionary Biology Section, Institut de Biologie, Paris, France.
1997-2004	Direct Ph.D. track, Department of Plant & Environmental Sciences, The Hebrew
	University of Jerusalem, Israel.
1993-1996	B.Sc. in Biology, Hebrew University of Jerusalem, Israel, Magna Cum Laude

Professional positions

2021-present	Full Professor, The Department of Plant and Environmental Sciences, Weizmann
	Institute of Science, Rehovot, Israel.
2016-2021	Associate Professor, The Department of Plant and Environmental Sciences,
	Weizmann Institute of Science, Rehovot, Israel.
2010-2016	Assistant Professor, The Department of Plant and Environmental Sciences,
	Weizmann Institute of Science, Rehovot, Israel.
2010-2013	Adjunct Scientist at the Marine Chemistry & Geochemistry Department, Woods
	Hole Oceanographic Institution, USA.

Competitive grants

- Vardi, A. "Tripartite interactions between an algal host, its virus and associated microbiome generates a unique metabolic footprint in the ocean". Minerva Stiftung Research Grants. 2022-2025.
- Vardi, A. "The impact of the viral shunt and its metabolic landscape on bacterial lifestyles and the flow of carbon during algal blooms". **European Research Council (ERC** Advanced). 2022-2027.
- Vardi, A., Gwenael, P. "Unravelling the unknown mechanisms of resistance to viral infection in marine algae". Weizmann CNRS Collaboration Program. 2022-2025.
- Vardi, A. "Untangling the infection outcome of host-virus dynamics in algal blooms in the ocean". **The Simons Foundation**. 2020-2024.
- Vardi, A., Schatz, D. Tracking individuality in cell fate decisions in marine diatoms provides novel insights into the acclimation strategies to environmental stress conditions **Israel Science Foundation (ISF)**. 2020-2024.
- Vardi, A. "Host-virus chemical arms race during algal blooms in the ocean at a single cell resolution". **European Research Council (ERC CoG)**. 2016-2021.
- Vardi, A., Levy, A., "Development of genetic manipulation tools for *Emiliania huxleyi* and establishing it as a model system for marine microeukaryotes". Gordon and Betty Moore Foundation GBMF-MMI. 2015-2016.
- Vardi, A., "The ecological relevance of redox signaling in regulating cell fate and population dynamics of marine diatoms. **Israel Science Foundation (ISF)**. 2015-2020.
- Vardi A. "Algal Bloom Dynamics: From Cellular Mechanisms to Trophic Level Interactions". **European Research Council (ERC StG)**. 2011-2016.

- Stocker, R. Seymour, J., Vardi, A., "A Microfabricated Coral to Unravel the Microbial Ecology of Coral Disease". **Young Investigator Grant Human Frontiers (HFSP)**. 2011-2014.
- Vardi A. "The Role of Cell Signaling and Infochemicals in Marine Algal-Virus Interactions". Marie Curie, European Commission. 2010-2014.
- Vardi A. "Cell Signaling and Life-Cycle Strategies in Marine Algal-Virus Interactions". Israel Science Foundation. 2010-2013.

Fellowships and awards

2015	Weizmann Institute Scientific Council Prize for Excellency.
2010	The Legacy Heritage Science fund, Brain Drain program, ISF
2004	Marie Curie Postdoctoral Fellow, Ecole Normale Superieure, Paris, France.
2005	FEBS -Youth Travel Grant, Plymouth, UK.
2002	Short term Fellowship, European Molecular Biology Organization (EMBO).
2002	The Rector Fellowship for outstanding Ph.D. Students, Hebrew University of
	Jerusalem.
1998, 2000	Rieger Foundation award for excellence in Ecology.

Supervision of graduate students and postdoctoral fellows

2010-2021 16 Postdocs, 9 Ph.D. and 14 Master Students.

Teaching activities

2019-Present:	Distinguished Lecturer in the International Max Planck Research School for
	Marine Microbiology (MarMic).
2019:	Lecturer, "Molecular principles of microbial symbiosis and pathogenicity",
	Weizmann Institute of Science.
2011-Present:	Lecturer, "Marine venoms and chemical defense systems", The Interuniversity
	Institute of Marine Sciences, Eilat.
2019:	Lecturer, "Marine Microbiology course", The Interuniversity Institute of
	Marine Sciences, Eilat.
2015:	Lecturer, "Marine photosynthesis course", The Interuniversity Institute of
	Marine Sciences, Eilat.
2014:	Lecturer, "Marine Biology course", Tel Aviv University.
2014:	Lecturer, "Chemical Ecology of Marine Microbes", Stazione Zoologica, Naples,
	Italy.
2010:	Lecturer, "Photosynthesis in a changing world", Feinberg graduate school,
	Weizmann Institute of Science.
1997-2003:	Teaching assistant, "Microbial Ecology" course, The Hebrew University of
	Jerusalem.
1998:	Teaching assistant, "Biology of Algae" course, the Interuniversity Institute,
	Eilat.

Organization of scientific meetings

- 2021 Conference organizer "Marine microbial chemical communication: the hidden language of interactions at sea". A webinar series, http://www.weizmann.ac.il/conferences/webinarM2C2/
- 2021 Member of the scientific advisory committee, The Federation of all the Israel Societies for Experimental Biology (ILANIT) conference, Eilat, Israel.
- 2019 International workshop organizer, "The anatomy of a bloom- a mesocosm workshop".

- 2017 Conference organizer, "Message in a bottle- Chemical Communication at Sea" at The Interuniversity Institute for Marine Sciences (IUI), Eilat, Israel.
- 2016 Session Chair, "Microbial Ecology", Israeli Society for Microbiology (ISM) Annual Meeting, Bar Ilan University, Israel.
- 2015 Conference organizer, "The molecular life of diatoms", Seattle, USA.
- 2015 Session Chair, "Infochemical controls on biogeochemical processes in aquatic and marine ecosystems", ASLO Aquatic science meeting, Granda, Spain.
- 2014 Session Chair, Marine Microbes Gordon Conference "Small Microbes, Big Data" Bentley University, MA, USA.
- 2014 Session Chair, "Ecology and marine life", The Federation of all the Israel Societies for Experimental Biology (ILANIT) conference, Eilat, Israel.
- 2014 Organizer, "Microbes: Ecology and Interaction with their host", International Honor lecture series, the Weizmann Institute of science, Israel.
- 2013 Session Chair, The 29th Annual Meeting of the ISOFRR-The Israel Society for Oxygen and Free Radical Research, Migal, Galilee Research Institute, Israel.
- 2013 Workshop organizer, "When genetics meets oceanography", Banyuls sur Mer, France.
- 2013 Session Chair, "Microbial Ecology", Israeli Society for Microbiology (ISM) annual meeting, Bar Ilan University, Israel.
- 2012 Organizer and Session Chair, The 28th annual meeting of the ISOFRR-The Israel Society for Oxygen and Free Radical Research, Weizmann Institute of Science, Israel.

Reviewing activities

- 2012-Present Editorial Board, Frontiers in Aquatic Sciences.
- 2010-Present Editorial Board, Perspectives in Phycology.
- 2014-Present Editorial Board, Microbial Cell.
- 2014-Present Review panel member and Chair, Israel Science Foundation (ISF).
- 2009–Present Reviewer for the Scientific journals: Science, Science Advances, Nature Communications, Nature Microbiology, Nature Reviews in Microbiology, PNAS, PLoS Genetics, ISME J., Journal of Phycology, Environmental Microbiology, New Phytologists, Frontiers in Microbiology.
- 2009-Present Scientific evaluation of Israeli and international Grant applications (ISF, NSF, BSF, GIF, FWO, NSER, ANR, Royal Society).

Institutional responsibilities

2020-2022	Member of the Board of Directors, The Interuniversity Institute for Marine
	Sciences, Eilat.
2020-Present	Member of the service and administration committee, WIS.
2017-Present	Member of the Life Sciences Faculties tenure track appointments committee,
	WIS.
2017-2019	Board member, The Israeli association for aquatic sciences.
2014-2015	Board member, The Israel Society for Oxygen and Free Radical Research.
2013-2015	Member of the users committee, the proteomics unit of the INCPM, WIS.
2010-Present	M.Sc. and Ph.D. applicant's admission committees, WIS.
2010-Present	Ph.D. advisory board (>30 graduate students), WIS.

Major contributions to the early careers of excellent researchers

To date, I have mentored 16 postdoctoral fellows, 9 Ph.D. and 14 MSc students. Nine former postdoc fellows from my group have established their own independent labs as excellent researchers that reached prominent positions.

- Dr. Carmit Ziv, Principal Investigator at The Volcani Center, ARO, Israel.
- Dr. Sergey Malitsky, Head of the metabolic profiling unit at the Life Sciences Core Facilities, WIS.
- Dr. Orr Shapiro, Principal Investigator at The Volcani Center, ARO, Israel.
- Dr. Miguel Frada, Principal Investigator at The Hebrew University of Jerusalem, Israel.
- Dr. Shilo Rosenwasser, Principal Investigator at the Hebrew University of Jerusalem, Israel.
- Dr. Oren Tzfadia, Principal Investigator at Institute of Tropical Medicine, Antwerp (ITM), Belgium.
- Dr. Chuan Ku, Principal Investigator at the Academia Sinica, Taiwan.
- Dr. Naama Lang-Yona, Principal Investigator at the Technion Israel Institute of Technology, Israel.
- Dr. Flora Vincent, Principal Investigator in EMBL Heidelberg, starting in Sept. 2022

Patents: Three international patent applications (2011, 2014, 2020).