

# The Interuniversity Institute for Marine Sciences in Eilat

## Most Active Non-Resident Researchers

Short CVs and lists of 5 significant recent publications

[Abelson, Avigdor](#) – Tel Aviv U.

[Abramovich, Sigal](#) – Ben Gurion U.

[Addadi, Lia](#) – Weizmann Inst.

[Agnon, Amotz](#) – Hebrew Univ.

[Beja, Oded](#) – Technion

[Belmaker, Jonathan](#) – Tel Aviv U.

[Benayahu, Yehuda](#) – Tel Aviv U.

[Berman-Frank, Ilana](#) – Bar Ilan U.

[Dubinsky, Zvy](#) – Bar Ilan U.

[Erez, Jonathan](#) – Hebrew U.

[Gildor, Hezi](#) – Hebrew U.

[Goodman-Tchernov, Beverly](#) – U. Haifa

[Ilan, Micha](#) – Tel Aviv U.

[Iluz, David](#) – Bar Ilan U.

[Keren, Nir](#) – Hebrew Univ.

[Kushmaro, Ariel](#) – Ben Gurion U.

[Lazar, Boaz](#) – Hebrew U.

[Levy, Oren](#) – Bar Ilan U.

[Lindell, Debbie](#) – Technion

[Lotan, Tamar](#) – U. Haifa

[Loya, Yossi](#) – Tel Aviv U.

[Mass, Tali](#) – U. Haifa

[Oren, Aharon](#) – Hebrew U.

[Shashar, Nadav](#) – Ben Gurion U.

[Shavit, Uri](#) – Technion

[Shemesh, Aldo](#) – Weizmann Inst.

[Shenkar, Noa](#) – Tel Aviv U.

[Sher, Daniel](#) – Haifa U.

[Tchernov, Dan](#) – U. Haifa

[Treibitz, Tali](#) – U. Haifa

[Vardi, Assaf](#) – Weizmann

[Weiner, Steve](#) – Weizmann Inst.

## Prof. Abelson, Avigdor

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### Academic Degrees:

1981-1984	B.Sc.	The Hebrew University of Jerusalem, Israel
1985-1987	M.Sc.	Tel Aviv University, Israel
1987-1993	Ph.D.	Tel Aviv University, Israel
1993-1995	Post-doctoral fellow	Stanford University, USA

### Academic Positions:

2007-present	Associate Professor	Dept. of Zoology, Tel Aviv University
1999-2007	Senior Lecturer	Dept. of Zoology, Tel Aviv University
1995-1999	Lecturer	Institute of Nature Conservation, Tel Aviv University

### Selected Awards:

1989	Mifal-Hapais - Landau Award for Graduate Students
1989	The Zoological Society of Israel - Blondheim Prize for the best M.Sc. paper
1990	The Zoological Society of Israel - Prize for the best Ph.D. paper
1993	CIES; USIEF - Fulbright Award for Post-doctorates
1997	Mifal-Hapais - Landau Award for Outstanding Young Scientists

## **Selected Publications:**

Zvuloni, A., O. Mokady, G. Bernardi, S. Gaines, **A. Abelson** (2008) Local scale genetic structure in coral populations in Eilat, Red Sea: an indication of selection? *Mar. Poll. Bull.* 56:430-438.

**Abelson, A.**, Halpern, B.S., Reed, D.C., Orth, R.J., Kendrick, G.A., Beck, M.W., Belmaker, J., Krause, G., Edgar, G.J., Airoidi, L., Brokovich, E, France, R., Shashar, N., de Blaeij, A., Stambler, N., Salameh, P., Shechter, M. and Nelson, P. (2016) Upgrading Marine Ecosystem Restoration Using Ecological–Social Concepts. *BioScience* 66:156-163.

**Abelson, A.**, P. Nelson, G. Edgar, N. Shashar, D. Reed, J. Belmaker, G. Krause, M. Beck, E. Brokovich, R. France, S. Gaines (2016) Expanding marine protected areas to include degraded coral reefs. *Conserv. Biol.* 30:1182–1191.

**Abelson, A.**, U. Obolski, P. Regoniel, L. Hadany (2016) Restocking of herbivorous fish populations as an ecological-social restoration tool in coral reefs. *Frontiers Mar. Sci.* 3:138.

Yanovsky, R., P. Nelson and **A. Abelson** (2017) Structural complexity in coral reefs: evaluation tools and spatial scales. *Frontiers in Ecology and Evolution* 5:27.

## Prof. Abramovich, Sigal

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### Academic Degrees:

1991-1995	B.Sc.	Dept. of Geological and Environmental Sciences, Ben Gurion University of the Negev, Israel
1995-1997	M.Sc.	Dept. of Geological and Environmental Sciences, Ben Gurion University of the Negev, Israel
1998-2002	Ph.D.	Dept. of Geosciences, Princeton University, USA
2002-2003	Post-doctoral fellow	Dept. of Geosciences, Princeton University, USA
2003-2005	Post-doctoral fellow	Dept. of Geological and Environmental Sciences, Ben Gurion University of the Negev, Israel

### Academic Positions:

2016-present	Professor	Dept. of Geological and Environmental Sciences, Ben Gurion University of the Negev
2010-2016	Senior Lecturer	Dept. of Geological and Environmental Sciences, Ben Gurion University of the Negev
2005-2010	Lecturer	Dept. of Geological and Environmental Sciences, Ben Gurion University of the Negev

### Selected Awards:

1997	The Peretz Grader Award, Geological Society of Israel
1997	Dean's Award for Excellence - M.Sc. thesis, BGU Natural Sciences Faculty
1997	Honor in Geology - M.Sc.
2006	Best Lecturer Award for 2006, The Student Association of Ben Gurion University
2007	Career Development Chair in Natural Sciences

### Selected Publications:

Merkado, G., Holzmann, M., S., Abdu, U., Almogi-Labin, A., Hyams-Kaphzan, O., and Pawlowski J., and **Abramovich, S.** (2013) Molecular evidence for Lessepsian invasion of soritids (larger symbiont bearing benthic foraminifera). *PLoS ONE* 8:e77725.

Ashckenazi-Polivoda, S, Rak, C., Almogi-Labin, A., Berner, Z., Ovadia, O and **Abramovich, S.** (2014) Paleoeology of *Guembelitra* (Cushman), the K-Pg mass extinction survivor: Isotopic evidences from pristine foraminifera from Brazos river Texas (Maastrichtian). *Paleobiology* 40:24-33.

Oron, S., Angel, D., Goodman –Tchernov, B., Merkado, G., Kiflawi, M., and **Abramovich, S.** (2014) Benthic foraminiferal response to the removal of aquaculture fish cages in the Gulf of Aqaba-Eilat, Red Sea. *Marine Micropaleontology* 107:8-17.

Titelboim, D., Schmidt, C., Almogi-Labin, A., Herut, B., Kucera, M., Hymas Kaphzan, O., Ovadia, O and **Abramovich, S.** (2016) Selective responses of benthic foraminifera to thermal pollution. *Marine Pollution Bulletin* 105:324–336.

Titelboim, D., Schmidt, C., Herut, B., Almogi-Labin, A., Kucera M., **Abramovich, S.** (2017) Geochemical signatures of benthic foraminiferal shells from a heat-polluted shallow marine environment provide field evidence for growth and calcification under extreme warmth. *Global Changes Biology*. DOI:10.1111/gcb.13729.

## Prof. Addadi, Lia

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### Academic Degrees:

1968-1973	B.Sc., M.Sc.	Universita' degli Studi di Padova, Italy
1973-1979	Ph.D.	Weizmann Institute of Science, Israel
1980-1981	Post-doctoral fellow	Weizmann Institute of Science, Israel
1981-1982	Post-doctoral fellow	Dept. of Chemistry, Harvard University, USA

### Academic Positions:

1993-present	Full Professor	Dept. of Structural Biology, Weizmann Institute of Science
1991-1993	Associate Prof.	Dept. of Structural Biology, Weizmann Institute of Science
1988-1991	Associate Prof.	Dept. of Structural Chemistry, Weizmann Institute of Science
1982-1988	Senior Scientist	Dept. of Structural Chemistry, Weizmann Institute of Science

### Selected Awards:

1978	J.F. Kennedy Memorial Prize for Ph.D. Students
1981	G.M.J. Schmidt Prize for Ph.D. Thesis
1986	Ernst Bergmann Prize in Chemistry
1989	Annual Award of the Israel Chemical Society for Young Scientists

1996	NIDR Prize for Basic Research in Biological Mineralization
1998	Prelog Medal in Stereochemistry of the ETH, Zurich
2000	Shell Distinguished Lecture, Northwestern University
2005	Rosalind Franklin Lecturer, Cambridge, UK
2006	Kolthoff Prize of the Technion, Haifa, Israel
2007	Spiers Medal of the Royal Society of Chemistry, Faraday Division
2007	“Sigillo della città di Padova” for Illustrious Citizens Living Abroad
2009	Order of Merit of the Republic of Italy “Cavaliere della Repubblica”
2009	Israel Chemical Society Prize of Excellence
2011	Gregori Aminoff Prize in Crystallography of the Royal Swedish Academy of Sciences
2011	Included in Gordon Research Conference Hall of Fame

### Selected Publications:

Julia Mahamid, Barbara Aichmayer, Eyal Shimoni, Roy Ziblat, Chenghao Li, Stefan Siegel, Oskar Paris, Peter Fratzl, Steve Weiner and **Lia Addadi** (2010) Amorphous Calcium Phosphate Transformation into Crystalline Mineral in the Fin Bones of Zebrafish: Mapping the Mineral from the Cell to the Bone *PNAS* 107:6316-6321.

Roy Ziblat, Leslie Leiserowitz and **Lia Addadi** (2011) Characterization by X-ray diffraction of crystalline lipid domains in relation to biology. *Angew. Chem. Int. Ed.*, 50:3620-3629.

Dvir Gur, Ben Leshem, Maria Pierantoni, Viviana Farstey, Dan Oron, Steve Weiner, **Lia Addadi** (2015) The Structural Basis for the Brilliant Colors of the Sapphirinid Copepods *J Am Chem Soc Communication* 137:8408–8411.

Netta Vidavsky, Sefi Addadi, Andreas Schertel, David Ben-Ezra, Muki Shpigel, **Lia Addadi**, Steve Weiner (2016) Calcium transport into the cells of the sea urchin larva: implications for spicule formation” *PNAS* doi:10.1073/pnas.1612017113.

Neta Varsano, Tali Dadosh, Sergey Kapishnikov, Eva Pereiro, Eyal Shimoni, Xueting Jin, Howard S. Kruth, Leslie Leiserowitz and **Lia Addadi** (2016) Development of Correlative Cryo-soft X-ray Tomography (Cryo-SXT) and Stochastic Reconstruction Microscopy (STORM). A Study of Cholesterol Crystal Early Formation in Cells. *J Am Chem Soc.* DOI:10.1021/jacs.6b07584.

## Prof. Agnon, Amotz

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### Academic Degrees:

1977-1980	B.Sc.	Institute of Earth Sciences, The Hebrew University of Jerusalem, Israel
1980-1983	M.Sc.	Institute of Earth Sciences, The Hebrew University of Jerusalem, Israel
1983-1989	Ph.D.	Dept. of Geology & Geophysics, University of California at Berkeley, USA

### Academic Positions:

2009-present	Professor	Institute of Earth Sciences, The Hebrew University of Jerusalem
2003-2009	Associate Professor	Institute of Earth Sciences, The Hebrew University of Jerusalem
1996-2003	Senior Lecturer	Institute of Earth Sciences, The Hebrew University of Jerusalem
1990-1996	Lecturer	Institute of Earth Sciences, The Hebrew University of Jerusalem
1988-1990	Adjunct Lecturer	Institute of Earth Sciences, The Hebrew University of Jerusalem



## **Selected Publications:**

Makovsky, Y., Wunch, A., Ariely, R., Shaked, Y., Rivlin, A., Shemesh, A., Ben-Avraham, Z., **Agnon, A.** (2008) Quaternary transform kinematics constrained by sequence stratigraphy and submerged coastline features: The Gulf of Aqaba. *Earth Planet. Sci. Lett.* 271:109-122.

Granot, R., Abelson, M., Ron, H., Lusk, M.W., **Agnon, A.** (2011) Direct evidence for dynamic magma supply fossilized in the lower oceanic crust of the Troodos ophiolite. *Geophys. Res. Lett.* 38:L16311. DOI: 10.1029/2011GL048220.

**Agnon, A.** (2014) Pre-instrumental earthquakes along the Dead Sea transform. Z. Garfunkel, Z. Ben-Avraham, E. Kagan (eds.), Dead Sea Transform Fault System: *Reviews, Modern Approaches in Solid Earth Sciences* 6, 8:207-261. DOI:10.1007/978-94-017-8872-4\_8.

Ellenblum, R., Marco, S., Kool, R., Davidovitch, U., Porat, R., **Agnon, A.** (2015) Archaeological record of earthquake ruptures in Tell Ateret, the Dead Sea Fault, *Tectonics* 34. DOI:10.1002/2014TC003815.

Avnaim-Katav, S., Almogi-Labin, A., **Agnon, A.**, Porat, N. and Sivan, D. (2017) Holocene hydrological events and human induced environmental changes reflected in a southeastern Mediterranean fluvial archive. *Palaeogeography, Palaeoclimatology, Palaeoecology* 468:263-275.

## Prof. Beja, Oded

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### Academic Degrees:

1987-1990	B.Sc. (with distinction)	Faculty of Agricultural, Food & Environmental Quality Sciences, The Hebrew University of Jerusalem, Israel
1991-1993	M.Sc.	Dept. of Membrane Research and Biophysics, The Weizmann Institute of Science, Israel
1993-1998	Ph.D.	Dept. of Biological Chemistry, The Weizmann Institute of Science, Israel
1998-2001	Post-doctoral fellow	Monterey Bay Aquarium Research Institute, USA

### Academic Positions:

2010-present	Professor	Technion – Israel Institute of Technology
2006-2010	Associate Professor	Technion – Israel Institute of Technology
2001-2006	Assistant Professor	Technion – Israel Institute of Technology

### Selected Awards:

2002	New Investigator Award, American Society for Photobiology
2003	EMBO Young Investigator Award (EMBO-YIP 2003)
2005	The Moshe Shilo Prize, Israel Society for Microbiology
2007	The Taub Prize, Technion - Israel Institute of Technology

2008	The Henri Gutwirth Award, Technion - Israel Institute of Technology
2010	The Ulitzki Prize, Israel Society for Microbiology
2013	F1000 Faculty Member of the Year 2012 in Microbiology

### Selected Publications:

Philosof, A., Yutin, N., Flores-Uribe, J., Sharon, I., Koonin, E.V., and **Béjà, O.** (2017) Novel Abundant Oceanic Viruses of Uncultured Marine Group II Euryarchaeota. *Curr. Biol.* [in press]. DOI:/10.1016/j.cub.2017.03.052.

Sharon, I., Alperovitch, A., Rohwer, F., Haynes, M., Glaser, F., Atamna-Ismaeel, N., Pinter, R.Y., Partensky, F., Koonin, E.V., Wolf Y.I., Nelson, N. and **Béjà, O.** (2009) Photosystem-I gene cassettes are present in marine virus genomes. *Nature* 461:258-262.

Sharon, I., Battchikova, N., Aro, E.-M., Giglione, C., Meinel, T., Glaser, F., Pinter, R.Y., Breitbart, M., Rohwer, F., and **Béjà, O.** (2011) Comparative metagenomics of microbial traits within oceanic viral communities. *ISME J.* 5:1178-1190.

Atamna-Ismaeel, N., Sabehi, G., Sharon, I., Witzel, K-P., Labrenz, M., Jürgens, K., Barkay, T., Stomp, M., Huisman, J., and **Béjà, O.** (2008) Widespread distribution of proteorhodopsins in freshwater and brackish ecosystems. *ISME J.* 2:656-662.

Yutin, N., Suzuki, M. T., Teeling, H., Weber, M., Venter, J.C., Rusch, D. and **Béjà, O.** (2007) Assessing diversity and biogeography of aerobic anoxygenic phototrophic bacteria in surface waters of the Atlantic and Pacific Oceans using the Global-Ocean-Sampling expedition metagenomes. *Environ. Microbiol.* 9:1464-1475.

## Dr. Belmaker, Jonathan

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### Academic Degrees:

1998-2001	B.Sc. ( <i>summa cum laude</i> )	Ben Gurion University, Israel
2002-2008	Ph.D. ( <i>summa cum laude</i> )	Ben Gurion University, Israel
2008-2009	Post-doctoral fellow	Section of Ecology, Behavior & Evolution, University of California, USA
2009-2012	Post-doctoral fellow	Dept. of Ecology & Evolutionary Biology, Yale University, USA

### Academic Positions:

2012-present	Senior Lecturer	Dept. of Zoology, Tel Aviv University
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### Selected Awards:

2003	The Merav Ziv Award for Excellence in Ecology (Ben-Gurion University)
2003	The Best Oral Presentation for a Master Student. The 40 <sup>th</sup> Annual Meeting of the Zoological Society of Israel (Ben-Gurion University)
2004	Certification of Merit from the Charles and Anne Lindbergh Foundation
2005	The Berko Award (Best Student Award) for Excellence in Ecological Research, The Interuniversity Institute for Marine Sciences, Eilat
2006	The Wolf Foundation Award
2011	Scope-Zhongyu Young Scientist Award for Environmental Sciences

### **Selected Publications:**

van Rijn I, Buba H, DeLong JP, Kiflawi M, **Belmaker J**. Large but uneven reduction in fish size across species in relation to warming temperatures. *Global Change Biology* [in press].

**Belmaker J**, Jetz W. (2015) Relative roles of ecological and energetic constraints, diversification rates and region history on global richness gradient. *Ecology Letters* 18:563-571.

Parravicini V, Azzurro E, Kulbicki M., **Belmaker J**. (2015) Niche shifts can impair the ability to predict invasion risk in the marine realm: an illustration using Mediterranean fish invaders. *Ecology Letters* 18:246-253.

**Belmaker J**, Parravicini V, Kulbicki M. (2013) Ecological traits and environmental affinity explain Red Sea fish introduction into the Mediterranean. *Global Change Biology* 19:1373-1382.

Lessard J-P, **Belmaker J**, Myers JA, Chase JM, Rahbek C. (2012) Inferring local ecological processes amid source pool influences. *Trends in Ecology & Evolution* 28:600-607.

## Prof. Benayahu, Yehuda

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### Academic Degrees:

1969-1972	B.Sc.	Tel Aviv University, Israel
1973-1976	M.Sc.(with distinction)	Tel Aviv University, Israel
1977-1982	Ph.D.	Tel Aviv University, Israel
1982-1983	Post-doctoral fellow	Florida International University, Florida, USA

### Academic Positions:

2016-present	Professor Emeritus	Dept of Zoology, Tel Aviv University
2003-present	Full Professor	Dept of Zoology, Tel Aviv University
1997-2002	Associate Professor	Dept of Zoology, Tel Aviv University
1990-1996	Senior Lecturer	Dept of Zoology, Tel Aviv University
1987-1990	Lecturer	Dept of Zoology, Tel Aviv University

### Selected Awards:

1999	British Council Award for visiting several marine laboratories in the UK
1999	Academy Study on Israel and the Middle (Britain) Award for visiting several marine laboratories in the UK
2005	Faculty of Life Sciences, Tel Aviv University: Award for Outstanding Teaching
2011	Artiglio Award, Artiglio Europe Foundation

### **Selected Publications:**

- C. Yoffe, T. Lotan, **Y. Benayahu** (2012) A modified view on octocorals: *Heteroxenia fuscescens* nematocysts are diverse, featuring both an ancestral and a novel type *PLoS ONE* 7:1-5.
- A. Halász, C. S. McFadden, D. Aharonovich, R. Toonen, **Y. Benayahu** (2014) A revision of the octocoral genus *Ovabunda* (Alderslade, 2001) (Anthozoa, Octocorallia, Xeniidae). *ZooKeys* 373:1-41.
- Y. Gabay, M. Fine, Z. Barkay, **Y. Benayahu** (2014) Octocoral tissue provides protection from declining oceanic pH. *PLoS ONE* 9:e91553.
- Y. Mandelberg-Aharon, D. Benayahu, **Y. Benayahu** (2016) Octocoral *Sarcophyton auritum* Verseveldt & Benayahu, 1978: Microanatomy and presence of collagen fibers *Biol. Bull.* 230:68-77.
- E. Shoham, **Y. Benayahu** (2017) Higher species richness of octocorals in the upper mesophotic zone in Eilat (Gulf of Aqaba) compared to shallower reef zones. *Coral Reefs* 36:71–81.

## Prof. Berman-Frank, Ilana

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### Academic Degrees:

1983-1987	B.Sc.	University of California, USA
1990-1996	Ph.D.	Dept. of Life Sciences, Bar-Ilan University, Israel; Kinneret Limnological Laboratory of the Israel Oceanographic and Limnological Research, Israel
1996-1998	Post-doctoral fellow	Depts. of Earth and Life Sciences, The Hebrew University of Jerusalem, Israel
1998-2002	Post-doctoral fellow	Institute of Marine and Coastal Sciences, Rutgers State University, USA

### Academic Positions:

2011-present	Associate Professor	The Mina & Everard Goodman Faculty of Life Sciences, Bar-Ilan University
2007-2011	Senior Lecturer	The Mina & Everard Goodman Faculty of Life Sciences, Bar-Ilan University
2002-2007	Lecturer	The Mina & Everard Goodman Faculty of Life Sciences, Bar-Ilan University



## **Selected Publications:**

Levitan, O., Rosenberg, G., Setlik, I., Setlikova, E., Grigel, J., Klepetar, J., Prasil, O. and **Berman-Frank, I.** (2007) Elevated CO<sub>2</sub> enhances nitrogen fixation and growth in the marine cyanobacterium *Trichodesmium*. *Global Change Biology* 13:531-538.

Rubin, M., **Berman-Frank, I.** and Shaked, Y. (2011) Dust- and mineral-iron utilization by the marine dinitrogen-fixer *Trichodesmium*. *Nature Geosciences* 4:529–534.

Rahav, E., Bar-Zeev, E., Ohayon, S., Elifantz, H., Belkin, N., Herut, B., Mulholland, M.R. and **Berman-Frank, I.** (2013) Dinitrogen fixation in aphotic oxygenated marine environments. *Frontiers in Microbiology* 4:227.

Dutkiewicz, S., Morris, J.J., Follows, M.J., Scott, J., Levitan, O., Dyhrman, S.T., and **Berman-Frank, I.** (2015) Impact of ocean acidification on the structure of future phytoplankton communities. *Nature Climate Change* DOI:10.1038/NCLIMATE2722.

Belkin, N. Rahav, E., Elifantz, H., Kress, N. and **Berman-Frank, I.** (2015) Enhanced salinities, as a proxy of seawater desalination discharges, impact coastal microbial communities of the eastern Mediterranean Sea. *Environmental Microbiology* 17:4105-4120.

## Prof. (Emeritus) Dubinsky, Zvy

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### Academic Degrees:

1970	B.Sc.	Bar-Ilan University, Israel
1972	M.Sc.	Bar-Ilan University, Israel
1977	Ph.D.	Faculty of Life Sciences, Bar-Ilan University, Israel
1977-1978	Post-doctoral fellow	C.U.N.Y., New York, USA

### Academic Positions:

2004-present	Professor Emeritus	The Mina & Everard Goodman Faculty of Life Sciences, Bar-Ilan University
1989-2004	Full Professor	Dept. of Life Sciences, Bar-Ilan University
1985-1989	Associate Professor	Dept. of Life Sciences, Bar-Ilan University.
1981-1984	Senior Lecturer	Dept. of Life Sciences, Bar-Ilan University
1978-1980	Lecturer	Dept. of Life Sciences, Bar-Ilan University

### **Selected Publications:**

Pinchasov-Grinblat, Y., D. Mauzerall, S. Goffredo, G. Falini and **Z. Dubinsky** (2013) Photoacoustics: a novel application to the determination of photosynthetic efficiency in zooxanthellate hermatypes. *Limnol. Oceanogr.: Methods* 11:374-381.

Cohen, I., G. Dishon, D. Iluz and **Z. Dubinsky** (2013) UV-B as a Photoacclimatory Enhancer of the Hermatypic Coral *Stylophora pistillata*. *Open Journal of Marine Science* 3:15-27.

Goffredo, S., F. Prada, E. Caroselli, B. Capaccioni, F. Zaccanti, L. Pasquini, P. Fantazzini, S. Fermani, M. Michela, O. Levy, K.E. Fabricius, **Z. Dubinsky** and G. Falini (2014) Biomineralization control related to population density under ocean acidification. *Nature Climate Change* 4:593-597.

Cohen, I. and **Z. Dubinsky** (2015) Long-term photoacclimation responses of the coral *Stylophora pistillata* to reciprocal deep to shallow transplantation: photosynthesis and calcification. *Front. Mar. Sci. - Coral Reef Research* 2. DOI:10.3389/fmars.2015.00045.

Goffredo S. and **Z. Dubinsky** (Eds.) *The Cnidaria, Past, Present and Future. The World of Medusa and Her Sisters*. Springer, Dordrecht, Heidelberg, London, New York; 2016. 990 pp.

## Prof. (Emeritus) Erez, Jonathan

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### Academic Degrees:

1970	B.Sc.	Dept. of Geology, The Hebrew University of Jerusalem, Israel
1972	M.Sc.	Dept. of Geology, The Hebrew University of Jerusalem, Israel
1978	Ph.D.	Woods Hole Oceanographic Institution, Massachusetts Institute of Technology, USA

### Academic Positions:

2017-present	Prof. Emeritus	The Hebrew University of Jerusalem
1997- 2016	Professor	The Institute of Earth Sciences, The Hebrew University of Jerusalem
1991 – 1997	Associate Professor	Dept. of Geology, Institute of Earth Sciences, The Hebrew University of Jerusalem
1986 – 1991	Senior Lecturer	Dept. of Geology, Institute of Earth Sciences, The Hebrew University of Jerusalem
1984 - 1986	Senior Lecturer	The H. Steinitz Marine Biology Laboratory, Eilat, The Hebrew University of Jerusalem
1979 – 1984	Lecturer	The H. Steinitz Marine Biology Laboratory, Eilat, The Hebrew University of Jerusalem

### Selected Awards:

2004	Kozenitsky-Rosenbach Chair in Geology
2010	Excellence Award of the Petersen Foundation, IFM-GEOMAR (Leibnitz Institute for Marine Research, Kiel University, Germany)
2013	R. Freund Prize of the Israel Geological Society
2014	Landau Prize for Art and Sciences

### Selected Publications:

Schneider K. and **Erez J.** (2006) The effect of carbonate chemistry on calcification and photosynthesis in the hermatypic coral *Acropora eurystoma*. *Limnol. Oceanog.* 51:1284-1293.

Bentov S., **Erez, J.** and Brownlee, C. (2009) The role of seawater endocytosis in the biomineralization process in calcareous foraminifera. *Proc. Nat. Acad. Sci.* 106:21500-21504.

Silverman J., K. Schneider, D. I. Kline., T. Rivlin, B. Lazar, **J. Erez**, K. Caldeira (2014) Community calcification in Lizard Island Great Barrier Reef: A 33 years perspective. *Geochim. Cosmochim. Acta* 144:72–81.

Nicola Allison, Itay Cohen, Adrian A. Finch, **J. Erez**, and EIMF (2014) Corals concentrate dissolved inorganic carbon to facilitate calcification *Nature Communications* 5:5741. DOI:10.1038/ncomms6741.

Evans David, **Jonathan Erez**, Shai Oron, Wolfgang Muller 2015, Producing accurate foraminifera-derived trace element palaeotemperatures: Mg/Ca-temperature and seawater-test chemistry relationships in the shallow-dwelling large benthic foraminifera *Operculina ammonoides*. *Geochim. Cosmochim. Acta* 148:325-342.

## Prof. Gildor, Hezi

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### Academic Degrees:

1991-1993	B.Sc. (magna cum laude)	Tel Aviv University, Israel
1994-1996	M.Sc.	The University of Tokyo, Japan
1996-2001	Ph.D.	Weizmann Institute of Science, Israel
2001-2003	Post-doctoral fellow	Lamont Doherty Earth Observatory of Columbia University, USA

### Academic Positions:

2017	Professor	Faculty of Mathematics and Sciences, The Institute of Earth Sciences, The Hebrew University of Jerusalem
2010-2017	Associate Professor	Faculty of Mathematics and Sciences, The Institute of Earth Sciences, The Hebrew University of Jerusalem
2003-2010	Senior Scientist	Dept. of Environmental Sciences and Energy Research, Weizmann Institute of Science
2003-2006	Adjunct Research Scientist	Lamont Doherty Earth Observatory of Columbia University

### Selected Awards:

1992, 1993	Dean's List, Tel-Aviv University
2000	Student Presentation Honorable Mention, IGS Symposium on Sea Ice, Alaska
2001	The John F. Kennedy Memorial Prize for Outstanding Research (highest prize for Ph.D. work at the Weizmann Institute)
2001	Israeli Parliament Award for Excellence in Studies
2003	The Sir Charles Clore Prize for the Most Outstanding Researcher in the Experimental Sciences, Weizmann Institute of Science
2007	Prize of the Scientific Council, Weizmann Institute of Science

### Selected Publications:

Biton, E., **H. Gildor**, and W.R. Peltier (2008) Red sea during the last glacial maximum: Implications for sea level reconstruction. *Paleoceanography* 23. DOI:10.1029/2007PA001431.

**Gildor, H.**, E. Fredj, J. Steinbuck, and S. Monismith (2009) Evidence for submesoscale barriers to horizontal mixing in the ocean from current measurements and aerial-photographs. *Journal of Physical Oceanography* 39:1975-1983. DOI:10.1175/2009JPO4116.1.

Aharon, R., V. Rom-Kedar, and **H. Gildor** (2012) When complexity leads to simplicity: Ocean surface mixing simplified by vertical convection. *Physics of Fluids* 24. DOI:10.1063/1.4719147.

Ashkenazy, **H. Gildor**, Y., M. Losch, F.A. Macdonald, D.P. Schrag, and E. Tziperman (2013) Dynamics of a Snowball Ocean. *Nature* 495:90-93. DOI:10.1038/nature11894.

Amitai, Y., Y. Ashkenazy, and **H. Gildor** (in press) Multiple equilibria and overturning variability of the Aegean-Adriatic Seas. *Global and Planetary Change*.

## Dr. Goodman-Tchernov, Beverly

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### Academic Degrees:

1995	B.A.	University of Wisconsin, USA
1999	M.A.	The Pennsylvania State University, USA
2006	Ph.D.	McMaster University, USA
2006-2008	Post-doctoral fellow	University of Haifa, Israel and The Interuniversity Institute of Eilat, Israel
2008-2009	Post-doctoral fellow	The Hebrew University of Jerusalem, Israel and The Interuniversity Institute of Eilat, Israel
2009-2010	Post-doctoral fellow	Leon H. Charney School of Marine Sciences, University of Haifa, Israel

### Academic Positions:

2010-present	Assistant Professor	Leon H. Charney School of Marine Sciences, University of Haifa
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### Selected Awards:

2015	Kavli Fellow (National Academy of Sciences, USA)
2011	NOAA Ocean Age Career
2011	McMaster 'ARCH' recent Alumni Award
2010	National Geographic 'Ocean Hero'



2009	William Rainey Harper Distinguished Alumni Award
2009	National Geographic Emerging Explorer Award

### **Selected Publications:**

**Goodman-Tchernov, B.,** Katz, O. (2016) Holocene-era submerged notches along the southern Levantine coastline: Punctuated sea level rise? *Quat. Int.* 401:17–27.

**Goodman Tchernov, B.,** Katz, T., Shaked, Y., Qupty, N., Kanari, M., Niemi, T., and Agnon, A. (2016) Offshore Evidence for an Undocumented Tsunami Event in the “Low Risk” Gulf of Aqaba-Eilat, Northern Red Sea: *Plos One* 11:e0145802. DOI:10.1371/journal.pone.0145802.

Katz, T., Hinat, H., Eyal, G., Steiner, Z., Braun, Y., Shalev, S., and **Goodman-Tchernov, B.N.** (2015) Desert flash floods form hyperpycnal flows in the coral-rich Gulf of Aqaba, Red Sea. *Earth and Planetary Science Letters* 417:87–98.

**Goodman-Tchernov, B.N.,** Dey, H.W., Reinhardt, E.G., McCoy, F., and Mart, Y. (2009) Tsunami waves generated by the Santorini eruption reached Eastern Mediterranean shores: *Geology* 37:943–946. DOI:10.1130/G25704A.1.

Reinhardt, E.G., **Goodman, B.N.,** Boyce, J.I., Lopez, G., van Hengstum, P., Rink, W.J., Mart, Y., and Raban, A. (2006) The tsunami of 13 December A.D. 115 and the destruction of Herod the Great’s harbor at Caesarea Maritima, Israel. *Geology* 34:1061. DOI:10.1130/G22780A.1.

## Prof. Ilan, Micha

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### Academic Degrees:

1978-1981	B.Sc.	Tel Aviv University, Israel
1981-1984	M.Sc.	Tel Aviv University, Israel
1984-1989	Ph.D.	Tel Aviv University, Israel
1989-1991	Post-doctoral fellow	University of California - Santa Barbara, USA

### Academic Positions:

2007-present	Full Professor	Dept. of Zoology, Tel Aviv University
2003-2007	Associate Professor	Dept. of Zoology, Tel Aviv University
1995-2003	Senior Lecturer	Dept. of Zoology, Tel Aviv University
1991-1995	Lecturer	Dept. of Zoology, Tel Aviv University

### Selected Awards:

2015	Tel Aviv University 100 Best Teachers
2009	Best Teacher Award, Faculty of Life Sciences, Tel Aviv University

### **Selected Publications:**

Keren R, Mayzel B, Lavy A, Polishchuk I, Levy D, Fakra SC, Pokroy B, **Ilan M** (2017) Symbiotic bacteria mineralize arsenic and barium on intracellular vesicles. *Nature Communications* 8:14393.

Keren R, Lavy A, Mayzel B, **Ilan M** (2015) Culturable associated-bacteria of the sponge *Theonella swinhoei* show tolerance to high arsenic concentrations. *Frontiers in Microbiology* 6:154.

Lavy A , Eyal G, Neal B, Keren R, Loya Y, **Ilan M** (2014) A quick, easy, and non-intrusive method for underwater volume and surface area evaluation of benthic organisms by 3D computer modeling. *Methods in Ecology and Evolution* 6:521-531.

Zovko A, Viktorsson K, Hååg P, Kovalerchick D, Färnegårdh K, Alimonti A, **Ilan M**, Carmeli S, Lewensohn RM (2014) Marine sponge *Cribrorchalina vasculum* compounds activate intrinsic apoptotic signaling and inhibit growth factor signaling cascades in non-small cell lung carcinoma. *Molecular Cancer Therapeutics* 13:2941-2954.

Schmitt S, Tsai P, Bell J, Fromont J, **Ilan M**, Lindquist N, Perez T, Rodrigo A, Schupp PJ, Vacelet J, Webster N, Hentschel U, Taylor MW (2012) Assessing the complex sponge microbiota: core, variable and species-specific bacterial communities in marine sponges. *The ISME Journal* 6:564–576.

## Dr. Iluz, David

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### Academic Degrees:

1987-1990	B.Sc.	Dept. of Life Sciences and Dept. of Israel Studies and Archaeology, Bar-Ilan University, Israel
1990-1991	M.Sc.	Dept. of Life Sciences, Bar-Ilan University, Israel
1992-1997	Ph.D. ( <i>summa cum laude</i> )	Dept. of Life Sciences, Bar-Ilan University, Israel
1999-2001	Post-doctoral fellow	Dept. of Earth Sciences, The Hebrew University of Jerusalem, Israel

### Academic Positions:

2010-present	Senior Lecturer	Dept. of Environmental Sciences and Agriculture, Beit Berl College
2008-present	Senior Lecturer	Dept. of Management Science, Talpiot College
2008-present	Senior Lecturer and Research Assistant	Faculty of Life Sciences, Center for Teaching Ecology Lab, Bar-Ilan University
2007-2014	Lecturer/Associate Instructor	Dept. of Geography and Environment, Bar-Ilan University
2003-2013	Lecturer/Associate Instructor	Dept. of Israel Studies and Archaeology, Bar-Ilan University
2001-present	Associate Researcher and Lecturer/Associate Instructor	Faculty of Life Sciences, Bar-Ilan University

2001-2008	Lecturer	Dept. of Management Science, Talpiot College; Environmental Sciences and Agriculture, Beit Berl College
1995-1999	Lecturer	Environmental Sciences and Agriculture, Beit Berl College
1993-1999	Lecturer	Dept. of Management Science, Talpiot College

### **Selected Publications:**

**Iluz D.**, Dishon G., Capuzzo E., Meeder E., Astoreca R., Montecino V., Znachor P., Ediger D. and Marra J. (2009) Short-term variability in primary productivity during a wind-driven diatom bloom in the Gulf of Eilat (Aqaba). *Aquatic Microbial Ecology* 56:205-215.

**Iluz D.** and Dubinsky Z. (2015) Coral photobiology: New light on old views. *Zoology* 118:71-78.

**Iluz D.** and Abu-Ghosh S. (2016) A novel photobioreactor manages solar energy for a higher light-to-biomass conversion efficiency. *Energy Conversion and Management* 126:767-773.

Tamir R., Lerner A., Haspel C., Dubinsky Z., and **Iluz D.** (2017) The spectral and spatial distribution of light pollution in the waters of the northern Gulf of Aqaba (Eilat). *Scientific Reports* 7:42329. DOI:10.1038/srep42329.

Abu-Ghosh S., Kumar V., Fixler D., Dubinsky Z., Gedanken A., and **Iluz, D.** (2017) Nitrogen-doped carbon dots prepared from bovine serum albumin to enhance algal astaxanthin production. *Algal Research* 23:161-165.

## Prof. Keren, Nir

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### Academic Degrees:

1989-1992	B.Sc.	The Hebrew University of Jerusalem, Israel
1992-2000	Ph.D.	The Hebrew University of Jerusalem, Israel
2000-2005	Post-doctoral fellow	Washington University in Saint Louis, USA

### Academic Positions:

2012-present	Associate Professor	The Hebrew University of Jerusalem
2006-2012	Assistant Professor	The Hebrew University of Jerusalem

### Selected Publications:

E. Salomon, L. Bar-Eyal, S Sharon S and **Keren N.** (2013) Balancing photosynthetic electron flow is critical for cyanobacterial acclimation to nitrogen limitation. *Biochim. Biophys. Acta* 1827:340–347.

C. Kranzler, H. Lis, O.M. Finkel, G. Schmetterer, Y. Shaked, and **N. Keren** (2014) Coordinated transporter activity shapes high-affinity iron acquisition in cyanobacteria. *ISME Journal* 8:409.

E. Salomon and **N. Keren** (2015) Acclimation to environmentally relevant Mn concentrations rescues a cyanobacterium from the detrimental effects of iron limitation. *Environ. Microbiol.* 17:2090-8.

L. Bar-Eyal, I. Eisenberg, A. Faust, H. Raanan, R. Nevo, F. Rappaport, A. Krieger-Liszkay, P. Sétif, A. Thurotte, Z. Reich, A. Kaplan, I. Ohad, Y. Paltiel, and **N. Keren** (2015) An easily reversible structural change underlies mechanisms enabling desert crust cyanobacteria to survive desiccation. *Biochim Biophys Acta* 1847:1267.

Einbinder, S., Gruber, D. F., Salomon, E., Liran, O., **Keren, N.**, & Tchernov, D. (2016) Novel adaptive photosynthetic characteristics of mesophotic symbiotic microalgae within the reef-building coral, *Stylophora pistillata*. *Frontiers in Marine Science* 3:195.

## Prof. Kushmaro, Ariel

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### Academic Degrees:

1986-1990	B.Sc.	Tel Aviv University, Israel
1990-1992	M.Sc.	Tel Aviv University, Israel
1993-1999	Ph.D.	Tel Aviv University, Israel
1999-2000	Post-doctoral fellow	Kuvin Center for the Study of Infectious and Tropical Diseases, The Hebrew University of Jerusalem, Israel
2000-2001	Post-doctoral fellow	Dept. of Organismic and Evolutionary Biology, Harvard University, USA

### Academic Positions:

2016-present	Full Professor	Dept. of Biotechnology Engineering, Faculty of Engineering Sciences, Ben Gurion University
2012-2016	Associate Professor	Dept. of Biotechnology Engineering, Faculty of Engineering Sciences, Ben-Gurion University
2008-2012	Senior lecturer	Dept. of Biotechnology Engineering, Faculty of Engineering Sciences, Ben-Gurion University
2001-2008	Lecturer	Dept. of Biotechnology Engineering, Faculty of Engineering Sciences, Ben-Gurion University



### Selected Awards:

1997	Costa Award for an Outstanding Lecture (Annual Meeting of The Zoological Society of Israel)
1998	The Ashner Prize from the Israeli Society of Microbiology
1998	The SICB Award for an Outstanding Lecture (Annual Meeting of The Society for Integrative and Comparative Biology, USA)

### Selected Publications:

K. Yaniv, K. Golberg, E. Kramarsky-Winter, R. Marks, A. Pushkarev, O. Béjà and **A. Kushmaro**. (2017) Functional Metagenomic Screening for Anti-Quorum Sensing and Anti-Biofilm Activity. *Biofouling* 33(1). DOI:10.1080/08927014.2016.1253684.

E. Ben-Dov and **A. Kushmaro** (2015) Inosine at the 3'-end of Universal Primers to Study Structure and Diversity of Prokaryotic Populations. *Current Issues in Molecular Biology* 17:53-56.

H. Kvitt, E. Kramarsky-Winter, **A. Kushmaro**, K. Maor-Landaw, K. Zandbank, H. Rosenfeld, M. Fine and D. Tchernov (2015) Breakdown of coral colonial form under reduced pH conditions is initiated in polyps and mediated through apoptosis. *Proceedings of the National Academy of Sciences of the United States of America (PNAS)*. DOI:10.1073/pnas.1419621112.

J. Johnke Julia, Y. Cohen, M. de Leeuw, **A. Kushmaro**, E. Jurkevitch and A. Chatzinotas (2014) Multiple micro-predators controlling bacterial communities in the environment. *Curr. Opin. Biotechnol.* 27:185-190.

K. Golberg, V. Pavlov, R. S. Marks and **A. Kushmaro** (2014) Coral- associated bacteria, quorum sensing disrupter and the regulation of Biofouling. *Biofouling* 29:669-682.

## Prof. Lazar, Boaz

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### Academic Degrees:

1969-1973	B.Sc.	The Hebrew University of Jerusalem, Israel
1973-1977	M.Sc.	The Hebrew University of Jerusalem, Israel
1977-1983	Ph.D.	The Hebrew University of Jerusalem, Israel
1983-1985	Post-doctoral fellow	Harvard University, USA

### Academic Positions:

2008-present	Professor	The Hebrew University of Jerusalem, Israel
2002-2008	Associate Professor	The Hebrew University of Jerusalem, Israel
1991-2001	Senior Lecturer	The Hebrew University of Jerusalem, Israel
1986-1991	Lecturer	The Hebrew University of Jerusalem, Israel

### Selected Awards:

2014	Raphael Freund Award, Israel Geological Society
1992	Best Paper of the Year Award, Israel Geological Society
1983	Rothschild Foundation Post-Doctoral Award

## **Selected Publications:**

Silverman J., **Lazar B.**, Cao L., Caldeira K. and Erez J. (2009) Coral reefs may start dissolving when atmospheric CO<sub>2</sub> doubles. *Geophys. Res. Lett.* 36:L05606. DOI:10.1029/2008GL036282.

Meeder E., Mackey K.R.M., Paytan A., Shaked Y., Iluz D., Stambler N., Rivlin T., Post A.F. and **Lazar B.** (2012) Nitrite dynamics in the open ocean – A lesson from the northern Red Sea. *Mar. Ecol. Prog. Ser.* 453:11–26. DOI:10.3354/meps09525.

Steiner Z., Erez J., Shemesh A., Yam R., Katz A. and **Lazar B.** (2014) Basin scale estimates of pelagic and coral reef calcification in the Red Sea and Western Indian Ocean. *Proc. Natl. Acad. Sci.* 3. DOI:/10.1073/pnas.1414323111.

Wurgaft E., Steiner Z., Luz B., **Lazar B.** (2017) Evidence for inorganic precipitation of CaCO<sub>3</sub> on suspended solids in the open water of the Red Sea. *Mar. Chem.* [in press]. DOI:10.1016/j.marchem.2016.09.006.

Yehudai M., **Lazar B.**, Bar N., Kiro Y., Agnon A., Shaked Y., Stein M. (2017) U–Th dating of calcite corals from the Gulf of Aqaba. *Geochim. Cosmochim. Acta.* 198:285-298. DOI:10.1016/j.gca.2016.11.005.

## Prof. Levy, Oren

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### Academic Degrees:

1992-1995	B.Sc.	Dept. of Life Sciences, Bar-Ilan University, Israel
1996-1998	M.Sc.	Dept. of Life Sciences, Bar-Ilan University, Israel
1998-2003	Ph.D.	Dept. of Life Sciences, Bar-Ilan University, Israel
2003-2004	Post-doctoral fellow	Dept. of Environmental Sciences & Energy Research, Weizmann Institute of Science, Israel
2004-2007	Post-doctoral fellow	University of Queensland, Australia
2007-2008	Post-doctoral fellow	The Weizmann Institute of Science, Israel

### Academic Positions:

2015	Associate Professor	The Mina & Everard Goodman Faculty of Life Sciences, Bar-Ilan University
2008-2015	Senior Lecturer	The Mina & Everard Goodman Faculty of Life Sciences, Bar-Ilan University

### Selected Awards:

2014	Japan Society for the Promotion of Science (Long Term)
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## **Selected Publications:**

Hagit T. Porath, Amos Schaffer, Paulina Kaniewska, Shahar Alon, Eli Eisenberg, Joshua Rosenthal, Erez Y. Levanon, **Oren Levy** (2017) A-to-I RNA editing in the earliest-diverging eumetazoan phyla. *Molecular Biology and Evolution* (in press).

Paulina Kaniewska, Shahar Alon, Sarit Karako-Lampert, Ove Hoegh-Guldberg, **Oren Levy** (2015) Signaling cascades and the importance of moonlight in coral broadcast mass spawning. *eLife*. DOI:10.7554/eLife.09991.

Maor-Landaw K, Karako-Lampert S; Waldman Ben-Asher H, Goffredo S, Falini G, Dubinsky Z, **Levy O** (2014) Global warming fingerprint in the Gene Expression Profile in the Red Sea Coral *Stylophora pistillata*. *Global Change Biology*. DOI:10.1111/gcb.12592.

**Levy O**, Kaniewska P, Alon S, Eisenberg E, Karako-Lampert S, Bay LK, Reef R, Rodriguez-Lanetty M, Miller DJ and Hoegh-Guldberg O (2011) Complex diel cycles of gene expression in the coral-algal symbiosis. *Science* 331:175.

**Levy O**, Appelbaum L, Leggat W, Gothlif Y, Hayward DC, Miller D, Hoegh-Guldberg O (2007) Light-responsive cryptochromes from the simplest marine eumetazoan animals. *Science* 318:467-470.

## Prof. Lindell, Debbie

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### Academic Degrees:

1985 - 1988	B.Sc. (cum laude)	The Hebrew University of Jerusalem, Israel
1992 - 1993	M.Sc. (cum laude)	Division of Microbial and Molecular Ecology, The Hebrew University of Jerusalem, Israel and The Interuniversity Institute for Marine Sciences in Eilat, Israel
1994-2000	Ph.D.	Division of Microbial and Molecular Ecology, The Hebrew University of Jerusalem, Israel and The Interuniversity Institute for Marine Sciences in Eilat, Israel
2001-2006	Post-doctoral fellow	Dept. of Civil and Environmental Engineering, Massachusetts Institute of Technology (MIT), USA

### Academic Positions:

2012-present	Associate Professor	Faculty of Biology, Technion – Israel Institute of Technology
2006-2012	Senior Lecturer (Assistant Professor)	Faculty of Biology, Technion – Israel Institute of Technology

### Selected Awards:

2014	Daniel Shiran Prize for Research Excellence in Biomedicine – Technion
2012	Henry Taub Prize for Academic Excellence - Technion
2009	Krill Prize for Excellence in Scientific Research – Wolf Foundation
2007-2012	Robert J. Shillman Career Advancement Chair – Technion
1994	The Avner Etzion Award for Excellence in Student Research in the Field of Oceanography, The Hebrew University of Jerusalem

### Selected Publications:

**Lindell, D.**, J.D. Jaffe, M.L. Coleman, M.E. Futschik, I. Axmann, T. Rector, G. Kettler, M.B. Sullivan, R. Steen, W. Hess, G.M. Church, S.W. Chisholm. (2007) Genome-wide expression dynamics of a marine virus and host reveal features of co-evolution. *Nature* 449:83-86.

Avrani, S., O. Wurtzel, I. Sharon, R. Sorek, **D. Lindell** (2011) Genomic island variability facilitates *Prochlorococcus*-virus coexistence. *Nature* 474:604-608.

Sabehi, G., L. Shaulov, D. Silver, I. Yanai, A. Harel, **D. Lindell** (2012) A novel lineage of myoviruses infecting marine cyanobacteria is widespread in the oceans. *Proc. Nat. Acad. Sci.* 109:2037-2042.

Avrani, S. and **D. Lindell** (2015) Convergent evolution toward an improved growth rate and a reduced resistance range in *Prochlorococcus* strains resistant to phage. *Proc. Nat. Acad. Sci.* 112:E2191-E2200.

Dekel-Bird, N. P., G. Sabehi, B. Mosevitzky, **D. Lindell** (2015) Host-dependent differences in abundance, composition and host-range of cyanophages from the Red Sea. *Environmental Microbiology* 17:1286-1299.

## Dr. Lotan, Tamar

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### Academic Degrees:

1980-1983	B.Sc.	The Hebrew University of Jerusalem, Israel
1983-1985	M.Sc.	Dept. of Zoology, The Hebrew University of Jerusalem, Israel
1987-1992	Ph.D.	Dept. of Plant Genetics, Weizmann Institute of Science, Israel
1992-1995	Post-doctoral fellow	Dept. of Genetics, The Hebrew University of Jerusalem, Israel
1995-1998	Post-doctoral fellow	Dept. of Plant Biology, University of California, Davis, USA

### Academic Positions:

2009-present	Senior Lecturer	Marine Biology Dept., The Leon H. Charney School of Marine Sciences, University of Haifa
2000-2008	Founder, President and Director	NanoCyte Inc. NanoCyte
1998-2000	Founder and Head of R&D	Nidaria Technology Ltd



## **Selected Publications:**

Elran R., Raam M., Kraus R., Brekhman V., Sher N., Plaschkes, I., Califa-Capsi V., **Lotan T.** (2014) Early and late response of *Nematostella vectensis* transcriptome to heavy metals. *Molecular Ecology* 23:4722-4736.

Rachamim, T., Morgenstern, D., Aharonovich, D., Brekhman, V., **Lotan, T.** and Sher, D. (2015) The dynamically-evolving nematocyst content of an Anthozoan, a Scyphozoan and a Hydrozoan. *Molecular Biology and Evolution* 32:740-753.

Brekhman, V., Malik, A., Haas, B., Sher, N. and **Lotan, T.** (2015) Transcriptome profiling of the dynamic life cycle of the scyphozoan jellyfish *Aurelia aurita*. *BMC Genomics* 16:74.

Levitan, S., Sher, N., Brekhman, V., Ziv, T., Lubzens E. and **Lotan, T.** (2015) The making of an embryo in a basal metazoan: proteomic analysis in the sea anemone *Nematostella vectensis*. *Proteomics* 15:4096-4104.

Park, S., Piriatskiy, G., Zeevi, D., Ben-David, J., Yossifon, G., Shavit, U. and **Lotan, T.** (2017) The nematocyst's sting is driven by the tubule moving front. *Journal of the Royal Society Interface* 14:20160917.

## Prof. (Emeritus) Loya, Yossi

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### Academic Degrees:

1962-1965	B.Sc.	Dept. of Biology, Tel Aviv University, Israel
1965-1967	M.Sc.	Dept. of Zoology, Tel Aviv University, Israel
1968-1971	Ph.D.	Dept. of Ecology and Evolution, State University of New York at Stony Brook, N.Y., USA
1971-1972	Post-doctoral fellow	Dept. of Marine Ecology, Woods Hole Oceanographic Institute, Woods Hole, USA

### Academic Positions:

2010-present	Professor Emeritus	Dept. of Zoology, Tel Aviv University
2008-present	Adjunct Professor	James Cook University, Townsville, Australia
1986-2010	Full Professor	Dept. of Zoology, Tel Aviv University
1980-1986	Associate Professor	Dept. of Zoology, Tel Aviv University
1976-1980	Senior Lecturer	Dept. of Zoology, Tel Aviv University
1972-1976	Lecturer	Dept. of Zoology, Tel Aviv University

### Selected Awards:

2000	The Darwin Medal for Life Time Outstanding Contribution to the Field of Coral Reef Research
2003	The Landau Prize for Original Outstanding Research Contribution to the Field of Ecology and Environmental Quality
2015	EMET Prize in Exact Sciences: Environmental Studies

### **Selected Publications:**

**Loya Y.** & K. Sakai (2008) Bidirectional sex change in mushroom corals. *Proc. Roy. Soc. Biol. B* 275:2335-2343.

**Loya Y**, Eyal G, Treibitz T, Lesser MP and R Appeldoorn (2016) Theme section on mesophotic coral ecosystems: Advances in knowledge and future perspectives. *Coral Reefs*  
DOI:10.1007/s00338-016-1410-7.

Eyal-Shaham L, Eyal G, Tamir R and **Y. Loya** (2016) Reproduction, abundance and survivorship of two *Alveopora* spp. in the mesophotic reefs of Eilat, Red Sea. *Scientific Reports* 6:20964.

Shlesinger Tom and **Yossi Loya** (2016) Recruitment, mortality and resilience potential of scleractinian corals at Eilat, Red Sea. *Coral Reefs* 35:1357-1368.

Rapuano H., I. Brickner, T. Shlesinger, E. Meroz-Fine, R. Tamir and **Y. Loya** (2017) Reproductive strategies of the coral *Turbinaria reniformis* in the northern Gulf of Aqaba (Red Sea). *Scientific Reports* 7:42670. DOI:10.1038/srep42670.

## Dr. Mass, Tali

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### Academic Degrees:

2000-2003	B.Sc.	The Israeli Maritime College, Michmoret, Israel
2003-2005	M.Sc.	The Mina and Everard Goodman Faculty of Life Science, Bar Ilan University, Israel
2006-2010	Ph.D.	Evolution Systematics and Ecology Dept., The Hebrew University of Jerusalem, Israel
2010-2014	Post-doctoral fellow	Institute of Marine and Coastal Science, Rutgers University, USA

### Academic Positions:

2014-present	Lecturer	Marine Biology Dept., University of Haifa
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### Selected Publications:

**Mass T**, Genin A, Shavit U, Grinstein M, Tchernov D. (2010) Flow enhances photosynthesis in marine benthic autotrophs by increasing the efflux of oxygen from the organism to the water. *Proc. Natl. Acad. Sci. U.S.A.* 107:2527-2531.

**Mass T**, Drake LJ, Haramaty L, Kim JD, Zelzion U, Bhattacharya D, Falkowski PG. (2013) Cloning and characterization of four novel coral acid-rich proteins that precipitate carbonates *in vitro*. *Current Biology* 23:1126-1131.

Drake JL, **Mass T**, Haramaty L, Zelzion E, Bhattacharya D, and Falkowski PG. (2013) Proteomic analysis of skeletal organic matrix from the stony coral *Stylophora pistillata*. *Proc. Natl. Acad. Sci. U.S.A.* 110:3788-3793.

Drake, J.L., **Mass, T.**, Haramaty, L., Zelzion, E., Bhattacharya, D., and Falkowski, P.G. (2013) Reply to Ramos-Silva et al.: Regarding coral skeletal proteome. *Proc. Natl. Acad. Sci. U.S.A.* DOI:10.1073/pnas.1304591110.

**Mass T**, Drake JL, Peters EC, Jiang W and Falkowski PG (2014) Immunolocalization of skeletal matrix proteins in tissue and mineral of the coral *Stylophora pistillata*. *Proc. Natl. Acad. Sci. U.S.A.* DOI:10.1073/pnas.1408621111.

## Prof. Oren, Aharon

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### Academic Degrees:

1972	B.Sc. (cum laude)	State University of Groningen, Netherlands
1974	M.Sc.	State University of Groningen, Netherlands
1974-1978	Ph.D.	The Hebrew University of Jerusalem, Israel
1982-1984	Post-doctoral fellow	University of Illinois at Urbana-Champaign, USA

### Academic Positions:

1996-present	Professor	Division of Microbial and Molecular Ecology and Dept. of Plant and Environmental Sciences, The Institute of Life Sciences, The Hebrew University of Jerusalem
1991-1996	Associate Professor	Division of Microbial and Molecular Ecology, The Institute of Life Sciences, The Hebrew University of Jerusalem
1985-1991	Senior Lecturer	Division of Microbial and Molecular Ecology, The Institute of Life Sciences, The Hebrew University of Jerusalem
1984-1985	Lecturer	Division of Microbial and Molecular Ecology, The Institute of Life Sciences, The Hebrew University of Jerusalem
1979-1982	Research Fellow	Division of Microbial and Molecular Ecology, The Institute of Life Sciences, The Hebrew University of Jerusalem

### Selected Awards:

1993	Moshe Shilo Prize – The Israel Society for Microbiology
2000	Elected Fellow of the American Academy of Microbiology
2004	Recipient of the Ulitzi Prize – The Israel Society for Microbiology
2010	Doctor Honoris Causa – The University of Osnabrück, Germany
2015	Doctor Honoris Causa – Charles University in Prague, Czech Republic
2016	Honorary Member – Academia Română, Bucharest

### Selected Publications:

Elevi Bardavid, R., and **Oren, A.** (2008) Dihydroxyacetone metabolism in *Salinibacter ruber* and in *Haloquadratum walsbyi*. *Extremophiles* 12:125-131.

Bodaker, I., Sharon, I., Suzuki, M.T., Reingersch, R., Shmoish, M., Andreishcheva, E., Sogin, M.L., Rosenberg, M., Belkin, S., **Oren, A.**, and Bèjà, O. (2010) Comparative community genomics in the Dead Sea: an increasingly extreme environment. *ISME J.* 4:399-407.

Oren, A. (2011) Thermodynamic limits to microbial life at high salt concentrations. *Environ. Microbiol.* 13:1908-1923.

Elevi Bardavid, R., and **Oren, A.** (2012) Acid-shifted isoelectric point profiles of the proteins in a hypersaline microbial mat – an adaptation to life at high salt concentrations? *Extremophiles* 16:787-792.

**Oren, A.**, Abu-Ghosh, S., Argov, T., Kara-Ivanov, E., Shitrit, D., Volpert, A., and Horwitz, R. (2016) Expression and functioning of retinal-based proton pumps in a saltern crystallizer brine. *Extremophiles* 20:69-77.

## Prof. Shashar, Nadav

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### Academic Degrees:

1985-1988	B.Sc.	Tel Aviv University, Israel
1988-1991	M.Sc.	Tel Aviv University, Israel
1991-1997	Ph.D.	University of Maryland, Baltimore County, USA
1997-1999	Post-doctoral fellow	Marine Biological Laboratory, Woods Hole, USA

### Academic Positions:

2013-present	Associate Professor	Eilat Campus and Life Sciences Dept., Ben Gurion University
2007-2013	Assistant Professor (Senior Lecturer)	Eilat Campus and Life Sciences Dept., Ben Gurion University
1999-2007	Assistant Professor (Lecturer)	The Hebrew University of Jerusalem and The Interuniversity Institute for Marine Sciences, Eilat



## **Selected Publications:**

Baar Y., J. Rosen and **N. Shashar** (2014) Circular polarization of transmitted light by Sapphirinidae copepods. *PLoS ONE* 9:e86131. DOI:10.1371/journal.pone.0086131.

Josef N., Berenshtein I., Fiorito G., Sykes A., and **Shashar N.** (2015) Camouflage during movement in the European cuttlefish (*Sepia officinalis*). *J. Exp. Biol.* 218:3391-3398. DOI:10.1242/jeb.122481.

Baar Y., J. Rosen and **N. Shashar** (2014). Circular polarization of transmitted light by Sapphirinidae copepods. *PLoS ONE* 9:e86131. DOI:10.1371/journal.pone.0086131.

Nilsson D-E, Warrant E.J., Johnsen S, Hanlon R.T., **Shashar N.** (2012). A unique advantage for giant eyes in giant squid. *Current Biol.* 22:1–6. DOI:10.1016/j.cub.2012.02.031

Polak O. and **Shashar N.** (2012). Can a Small Artificial Reef Reduce Diving Pressure from a Natural Coral Reef? Lessons learned from Eilat, Red Sea. *Ocean & Coastal Management* 55:94-100. DOI:10.1016/j.ocecoaman.2011.10.006.

## Prof. Shavit, Uri

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### Academic Degrees:

1983-1987	B.Sc.	Technion – Israel Institute of Technology, Israel
1988-1990	M.Sc.	Technion – Israel Institute of Technology, Israel
1990-1994	Ph.D.	Carnegie Mellon University (CMU), USA
1994-1995	Post-doctoral fellow	Carnegie Mellon University (CMU), USA

### Academic Positions:

2008-present	Associate Professor	Faculty of Civil and Environmental Engineering, Technion
1998-2008	Senior Lecturer	Faculty of Civil and Environmental Engineering, Technion
1995-1998	Lecturer	Faculty of Civil and Environmental Engineering, Technion

### Selected Awards:

1991	The Best Teaching Assistant Award, MechE, CMU
1995	The ILASS-Americas Marshall Award for the Most Significant Contribution
1998-2000	The Joseph & Edith Fisher Career Development Chair
1998-2013	Several Excellent Teaching Awards, Technion
2013	The Moshe Yanai Prize for Excellence in Teaching

### **Selected Publications:**

**Shavit, U.**, Lowe, R.J., and Steinbuck J.V. (2007) Intensity Capping: a simple method to improve cross-correlation PIV results. *Experiments in Fluids* 42:225-240.

Kremien M., **Shavit U.**, Mass T., and Genin A. (2013) The benefit of pulsation in soft corals. *Proceedings of the National Academy of Sciences (PNAS)* 110:8978–8983.

Moltchanov, S., Bohbot-Raviv, Y., Duman, T. and **Shavit, U.** (2015) Canopy edge flow: a momentum balance analysis. *Water Resources Research* 51:2081–2095.

Asher, S., Niewerth, S., Koll, K. and **Shavit, U.** (2016) Vertical variations of coral reef drag forces. *J. Geophys. Res.Oceans* 121:3549–3563.

Park S., Piriatskiy G., Zeevi D., Ben-David J., Yossifon G., **Shavit U.**, and Lotan T. (2017) The nematocyst's sting is driven by the tubule moving front. *J. R. Soc. Interface* 14.  
DOI:10.1098/rsif.2016.0917.

## Prof. Shemesh, Aldo

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### Academic Degrees:

1979	B.Sc.	The Hebrew University of Jerusalem, Israel
1981	M.Sc.	The Hebrew University of Jerusalem, Israel
1986	Ph.D.	The Hebrew University of Jerusalem, Israel
1986-1988	Post-doctoral fellow	Lamont Doherty Earth Observatory of Columbia University, NY, USA

### Academic Positions:

2011-present	Full Professor	Weizmann Institute of Science
1995-2011	Associate Professor	Weizmann Institute of Science
1991-1995	Senior Scientist	Weizmann Institute of Science
1988-1991	Scientist	Weizmann Institute of Science

### **Selected Publications:**

Sisma-Ventura, G., Yam, R., Kress, N. and **Shemesh, A.** (2016) Water column distribution of stable isotopes and carbonate properties in the South-eastern Levantine basin (Eastern Mediterranean): Vertical and temporal change, *Journal of marine system*. DOI:10.1016/j.jmarsys.2016.01.012.

Steiner, Z., Erez, J., **Shemesh, A.**, Yam, R., Katz, A., and Lazar, B. (2014) Basin-scale estimates of pelagic and coral reef calcification in the Red Sea and Western Indian Ocean. *Proceedings of the National Academy of Sciences* 111:16303-16308.

Sisma-Ventura, G., Yam, R., **Shemesh, A.** (2014) Recent unprecedented warming and oligotrophy of the Eastern Mediterranean Sea within the last millennium. *Geophysical Research Letters* 41. DOI:10.1002/2014GL060393.

Crespin, J., Yam, R., Crosta, X., Masse, G., Schmidt, S., Campagne, P., **Shemesh, A.** (2014) Holocene glacial discharge fluctuations and recent instability in East Antarctica. *Earth and Planetary Science Letters* 394:38-47.

Mor, A.S., Yam, R., Bianchi, C., Kunz-Pirrung, M., Gersonde, R., **Shemesh, A.** (2012) Variable sequence of events during the past seven terminations in two deep-sea cores from the Southern Ocean. *Quaternary Research* 77:317-325.

## Dr. Shenkar, Noa

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### Academic Degrees:

1998-2001	B.Sc.	Tel Aviv University, Israel
2001-2003	M.Sc. (summa cum laude)	Tel Aviv University, Israel
2003-2008	Ph.D.	Tel Aviv University, Israel
2008-2009	Post-doctoral fellow	National Collections of Natural History, Tel Aviv University, Israel
2009-2011	Post-doctoral fellow	Biology Dept., University of Washington, USA

### Academic Positions:

2012-present	Senior Lecturer	Dept. of Zoology, Tel-Aviv University
2011-2012	Research Fellow	National Collections of Natural History, Tel-Aviv University

### Selected Awards:

2014, 2015	Amongst 100 Excellent Lecturers at Tel-Aviv University
2013	Caroline von Humboldt Prize for Young Female Researchers
2008	Dan David Prize

### **Selected Publications:**

Appeltans et al. (2012) Magnitude of global marine biodiversity: one third of sea creatures discovered. *Curr. Biol.* 22:1-14.

Koplovitz G, Hirose E, Hirose M, **Shenkar N** (2014) Being Green in the Red Sea - Ecology of the Photosymbiotic Ascidian *Diplosoma simile* (Asciacea: Didemnidae) in the Gulf of Aqaba. *Syst. Biodivers.* DOI:10.1080/14772000.2014.978410.

**Shenkar N**, Gordon T (2015) Gut-spilling in chordates: Evisceration in the tropical ascidian *Polycarpa mytiligera*. *Sci. Rep.* DOI: 10.1038/srep09614.

**Shenkar N**, Koplovitz G, Dray L, Gissi C, Huchon D (2016) Back to solitude- Solving the phylogenetic position of Diazonidae a molecular and developmental approach. *Mol. Phylo. Evol.* 100:51-56.

Gewing M, **Shenkar N** (2017) Marine vessels as an acute vector of invasive ascidian dispersal. *Mar Poll. Bull.* [in Press]

## Dr. Sher, Daniel

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**Affiliation:** Dept. of Marine Biology, Charney School of Marine Sciences, University of Haifa

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### Academic Degrees:

2000	B.Sc. (magna cum laude)	The Hebrew University of Jerusalem, Israel
2007	Ph.D. (summa cum laude)	The Hebrew University of Jerusalem, Israel
2007-2010	Post-doctoral fellow	Massachusetts Institute of Technology, USA

### Academic Positions:

2010-present	Lecturer	Dept. of Marine Biology, Charney School of Marine Sciences, University of Haifa
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### Selected Awards:

2011	Etty and Dusty Miller Prize for Outstanding Young Scholar
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## **Selected Publications:**

Grossowicz, M ., Roth-Rosenberg, D ., Aharonovich, D ., Silverman, J., Follows, M.J. and **Sher, D** (2017) Prochlorococcus in the lab and in silico: the importance of representing exudation. *Limnology and Oceanography* DOI: 10.1002/lno.10463.

Aharonovich, D and **Sher, D.** (2016) Transcriptional response of Prochlorococcus to co-culture with a marine Alteromonas: Differences between strains and the involvement of putative infochemicals. *The ISME Journal* 10:2892-2906. DOI:10.1038/ismej.2016.70.

Rachamim, T., Morgenstern, D+, Aharonovich, D #., Brekman, V., Lotan, T and **Sher, D** (2015) The dynamically-evolving nematocyst content of an Anthozoan, a Scyphozoan and a Hydrozoan. *Molecular Biology and Evolution* 32:740-753. DOI:10.1093/molbev/msu335.

**Sher D**, Thompson JW, Kashtan N, Croal L And Chisholm, SW. (2011) Response of Prochlorococcus ecotypes to co-culture with diverse marine bacteria. *The ISME Journal* 5:1125-1132. DOI:10.1038/ismej.2011.1.

Li B, **Sher D**, Kelly L, Shi Y, Huang K, Knerr PJ, Joewono I, Rusch D, Chisholm SW, van der Donk WA. (2010) Catalytic Promiscuity in the Biosynthesis of Cyclic Peptide Secondary Metabolites in Planktonic Marine Cyanobacteria. *Proceedings of the National Academy of Sciences USA* 107:10430-35. DOI:10.1073/pnas.0913677107.

## Dr. Tchernov, Dan

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### Academic Degrees:

1991-1995	B.Sc.	Faculty of Science, The Hebrew University of Jerusalem, Israel
1995-1998	M.Sc.	Faculty of Science, The Hebrew University of Jerusalem, Israel
1998-2003	Ph.D.	Faculty of Science, The Hebrew University of Jerusalem, Israel
2002-2004	Post-doctoral fellow	Dept. of Environmental Biophysics and Molecular Ecology, Institute of Marine and Coastal Sciences, Rutgers University, USA

### Academic Positions:

2009-present	Senior Lecturer	Dept. of Marine Biology, Leon H. Charney School of Marine Sciences, University of Haifa
2004-2009	Lecturer	Dept. of Evolution, Systematics and Ecology, The Alexander Silberman Institute of Life Sciences, The Hebrew University of Jerusalem

### Selected Awards:

1997	The Avner Ezion Award (in Oceanography)
1997	The Polack Award (The Alexander Silberman Institute of Life Sciences)

### Selected Publications:

Kvitt, H., Rosenfeld, H., **Tchernov, D.** (2016) The regulation of thermal stress induced apoptosis in corals reveals high similarities in gene expression and function to higher animals. *Scientific Reports* 6:30359.

Einbinder, S., Gruber, D., Solomon, E., Liran, O., Keren, N., **Tchernov, D.** (2016) Novel adaptive photosynthetic characteristics of mesophotic symbiotic microalgae within the reef-building coral, *Stylophora pistillata*. *Frontiers in Marine Science* 3:195.

Dishon, G., J., Fisch, I., Horn, K., Kaczmarek, J., Bijma, D. F., Gruber, O., Nir, Y., Popovich, **Tchernov, D.** (2015) A novel paleo-bleaching proxy using boron isotopes and high-resolution laser ablation to reconstruct coral bleaching events. *Biogeosciences* 12:5677-5687.

Kvitt, H., Kramarsky-Winter, E., Maor-Landaw, K., Zandbank, K., Kushmaro, A., Rosenfeld, H., **Tchernov, D.** (2015) Breakdown of coral colonial form under reduced pH conditions is initiated in polyps and mediated through apoptosis. *Proceedings of the National Academy of Sciences* 112:2082-2086.

**Tchernov, D.**, Mass, T., Gruber, D.F. (2012) Symbiotic transition of algae–coral triggered by paleoclimatic events? *Trends in Ecology & Evolution* 27:194-195.

## Dr. Treibitz, Tali

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### Academic Degrees:

1998-2001	B.A.	Computer Science, Technion - Israel Institute of Technology, Israel
2004-2010	Ph.D.	Electrical Engineering, Technion - Israel Institute of Technology, Israel
2010-2013	Post-doctoral fellow	Computer Science and Engineering, University of California, San Diego, USA
2011-2013	Post-doctoral fellow	Applied Ocean Science, Scripps Institution of Oceanography, USA

### Academic Positions:

2014-present	Senior Lecturer	Dept. of Marine Technologies, University of Haifa
2015-2016	Lecturer	Dept. of Electrical Engineering, Technion – Israel Institute of Technology

### Selected Awards:

1998-2000	Excellence Awards from the President of the Technion, 4 times
1998-2001	Technion Excellence Program
2000	Technion CS Faculty Excellence Award for Overall Achievements
2010	Awardee of the Weizmann Institute of Science – National Postdoctoral Award Program for Advancing Women in Science
2012	European Conference for Computer Vision 2012 Outstanding Reviewer Award

2013	University National Oceanographic Laboratory System (UNOLS) Chief Scientist Early-Career Training Cruise
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### **Selected Publications:**

**Tali Treibitz** and Yoav Y. Schechner (2009) Active Polarization Descattering. *IEEE Transactions Pattern Analysis & Machine Intelligence* 31:385-399.

**Tali Treibitz**, Yoav Y. Schechner, Clayton Kuntz, Hanumant Singh (2011) Flat Refractive Geometry *IEEE Trans. Pattern Analysis & Machine Intelligence* 34:51-65.

**Tali Treibitz**, B. P. Neal, D. I. Kline, O. Beijbom, P. L. D. Roberts, B. G. Mitchell, D. Kriegman (2015) Wide Field-of-View Fluorescence Imaging of Coral Reefs. *Nature Scientific Reports*.

A. D. Mullen, **T. Treibitz**, P. L. D. Roberts, E. L. A. Kelly, R. Horwitz, J. E. Smith, J. S. Jaffe (2016) Underwater Microscopy for In Situ Studies of Benthic Ecosystems. *Nature Communications* 7.

Derya Akkaynak, **Tali Treibitz**, Tom Shlesinger, Raz Tamir, Yossi Loya, David Iluz (2017) What Is the Space of Attenuation Coefficients in Underwater Computer Vision? *IEEE Computer Vision and Pattern Recognition (CVPR)*.

## Prof. Assf Vardi

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### Academic Degrees:

1993-1996	B.Sc. ( <i>magna cum laude</i> )	The Hebrew University of Jerusalem, Israel
1997-2004	Ph.D.	Dept. of Plant and Environmental Sciences, The Hebrew University of Jerusalem, Israel
2004-2005	Post-doctoral fellow	Institut de Biologie de l'École Normale Supérieure (IBENS), France
2006-2009	Post-doctoral fellow	Institute of Marine and Coastal Sciences, Rutgers University, USA

### Academic Positions:

2016-present	Associate Professor	Dept. of Plant and Environmental Sciences, Weizmann Institute of Science
2010-present	Senior Lecturer	Dept. of Plant and Environmental Sciences, Weizmann Institute of Science
2010-2013	Adjunct Lecturer	Dept. of Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution

### Selected Awards:

1998	Rieger Foundation Award for Excellence in Ecology and Environmental Sciences
2000	Rieger Foundation Award for Excellence in Ecology and Environmental Sciences
2015	The Scientific Council Prize, The Weizmann Institute of Science

### **Selected Publications:**

Lehahn, Y., Koren, I., Schatz, D., Frada, M., Sheyn, U., Boss, E., Efrati, Rudich, Y., Trainic, M., Sharoni, S., Laber, C., DiTullio, J., Coolen, C., Martins M., Van Mooy, B.A.S., Bidle, K. B., and **Vardi A.** (2014) Decoupling physical from biological processes to assess the impact of viruses on a mesoscale algal bloom. *Current Biology* 24:2041–2046.

Frada, M. J., Schatz, D., Farstey, V., Ossolinski, J. E., Sabanay, H., Ben-Dor, S., Koren, I., and **Vardi, A.** (2014) Zooplankton may serve as transmission vectors for viruses infecting algal blooms in the ocean. *Current Biology* 24:2592–2597.

Sharoni, S., Trainic, M., Schatz, D., Lehahn, Y., Flores, J.M., Bidle K.B., Ben-Dor, S., Rudich, Y., Koren, I., **Vardi, A.** (2015) Infection of bloom-forming phytoplankton by aerosolized marine viruses. *PNAS*. DOI:10.1073/pnas.1423667112.

Alcolombri, U., Ben-Dor, S., Feldmesser, E., Levin, Y., Tawfik, D.S., **Vardi, A.** (2015) Identification of the algal dimethyl sulfide releasing enzyme – a missing link in the marine sulfur cycle. *Science* 348:1466-1469.

Shapiro, O., Kramarsky-Winter, E., Gavish, A.R., Stocker, R., **Vardi, A.** (2016) A coral-on-a-chip microfluidic platform enabling live-imaging microscopy of reef-building corals. *Nature Communications* DOI:10.1038/ncomms10860.

## Prof. Weiner, Steve

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### Academic Degrees:

1966-1969	B.Sc.	University of Cape Town, South Africa
1969-1972	M.Sc.	The Hebrew University of Jerusalem, Israel
1972-1976	Ph.D.	California Institute of Technology, California, USA
1977-1979	Post-doctoral fellow	Isotope Dept., Weizmann Institute of Science, Israel

### Academic Positions:

1990-present	Professor	Structural Biology Dept., Weizmann Institute of Science
1985-1990	Associate Professor	Isotope Dept., Weizmann Institute of Science
1980-1985	Senior Scientist	Isotope Dept., Weizmann Institute of Science
1979-1980	Scientist	Isotope Dept., Weizmann Institute of Science

### Selected Awards:

1984	Ernst D. Bergmann Prize for Chemistry
2010	Israel Society of Chemistry Prize of Excellence
2011	Aminoff Prize of the Royal Swedish Academy of Sciences for Crystallography
2013	Pomrance Award for Scientific Contributions to Archaeology from the Archaeological Institute of America



### **Selected Publications:**

Politi, Y., Metzler, R.A., Abrecht, M., Gilbert, B., Wilt, F.H., Sagi, I., Addadi, L., **Weiner, S.** and Gilbert, P.U.P.A. (2008) Transformation mechanism of amorphous calcium carbonate into calcite in the sea urchin larval spicule. *Proc. Natl. Acad. Sci. (USA)* 105:17362-17366.

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