



Curriculum Vitae and List of Publications

Prof. Oren Levy

A. Curriculum Vitae

1. Personal Data

Place of Birth	Israel
Nationality	Israeli
Work Address	The Mina & Everard Goodman Faculty of Life Sciences Bar-Ilan University, Ramat-Gan 5290002, Israel
Work ☎:	972-3-5318030
Work Fax:	972-3-6493699
E-mail:	oren.levy@biu.ac.il
Lab website	http://levy-marinelab.com
Research-gate	https://www.researchgate.net/profile/Oren_Levy

Education, Certificates and Degrees

From-To	Institute	Area of Speciality	Degree
1992-1995	Department of Life Sciences, Bar-Ilan University	Biology	B.Sc.
1996-1998	Department of Life Sciences, Bar-Ilan University	Biology	M.Sc.
1998-2003	Department of Life Sciences, Bar-Ilan University	Biology	Ph.D.
04-08 2003	Institute of Earth Sciences, The Hebrew University of Jerusalem	<i>Coral calcification at different light spectrums</i>	
2003-2004	Department of Environmental Sciences & Energy Research (ESER), Weizmann Institution	Environmental Sciences	Post-Doc
2004-2007	University of Queensland	Marie Curie Outgoing Fellowship	Postdoctoral Research Fellow
2007-2008	The Weizmann Institute of Science	Environmental Sciences	Postdoc

Master Thesis: *The behavior of tentacles expansion and contraction in corals*

Supervisor: Prof. Yair Achituv and Dr. Nanette Furman

Doctoral Thesis: *Diurnal cycles in corals: Environmental effects and physiological consequence*

Supervisor: Prof. Yair Achituv and Prof. Zvy Dubinsky

Positions Held:

From-To	Institute	Research Area	Title
2008- 2015	The Mina & Everard Goodman Faculty of Life Sciences, Bar-Ilan University	Life Sciences	Senior Lecturer
2015	The Mina & Everard Goodman Faculty of Life Sciences, Bar-Ilan University	Life Sciences	Associate Professor

Academic Administrative Positions Held

From-To	Institute	Position
2009-	Bar-Ilan University	Teaching Committee Member
2012 -	Inter University for Marine Science (IUI), Eilat	Diving Committee Member

Public Scientific Activities Outside the University

From-To	Type of Activity
2012	Israel Science Foundation (ISF) – Grant Section Committee Member
2013	BSF-NSF – Panel Committee Member
2013	Ministry of Science - Panel Committee Member
2013-2017	President, Israeli Association of Aquatic Sciences (http://www.israelaquatic.org.il/index.php?page_id=13)
2013	Intentional Conference organizer – 8th International Conference on Coelenterate Biology (ICCB) Eilat, Israel, December 1-6, 2013. { http://www.iccb2013.com/index.php }.
2015	BSF - Panel Committee Member
2016	ISF, Israel –China Panel Committee Member

Participation in Scientific Conferences and Workshops

Date	Conference and Workshop Abstracts
1998	Levy, O. Tentacle expansion and contraction at different wavelengths and irradiances levels. Thirty-Fourth meeting of the zoological society of Israel (<i>oral presentation</i>)
2000	Levy, O. , Mizrahi, L., Iluz, D., Dubinsky, Z., Chadwick-Furman, N. and Achituv, Y. Tentacle expansion behavior of stony corals suggests a link to photosynthesis of its symbionts with relation to zooxanthellae densities. 9 th International Coral Reef Symposium, Bali, Indonesia (<i>oral presentation</i>)
2001	Levy, O. , Achituv, Y., Zakai, D., Schneider K., Erez, J. and Dubinsky, Z. The morning depression of photosynthesis in the Gulf of Eilat - Red Sea. The 33 rd Anniversary Conference of the Heinz Steinitz Marine Biology Laboratory Eilat. (<i>oral presentation</i>)
2004	Levy, O. , Achituv, Y., Schneider, K., Dubinsky, Z. and Gorbunov, M Diurnal Hysteresis in Coral Photosynthesis 10th International Coral Reef Symposium, Okinawa, Japan (<i>oral presentation</i>)

Date	Conference and Workshop Abstracts
2006	Levy O. , Appelbaum L, Leggat B, Miller DJ, Gothlif Y, Hoegh-Guldberg O. The blues of coral reefs - The first evidence for circadian clock genes. International Society for Reef Studies (ISRS) European meeting. 19 - 22 September 2006, Berman, Germany (<i>oral presentation</i>)
2007	Levy, O. , Appelbaum, L., Leggat, W., Gothlif, Y., Hayward, DC., Miller, DJ, Hoegh-Guldberg, O. Light-responsive cryptochromes from the simplest marine eumetazoan animals. Symbiosis Cell biology Workshop, Heron Island, Australia (<i>oral presentation</i>)
2008	Levy, O et al. , Light-Responsive Cryptochromes From A Simple Multicellular Animal, The Coral <i>Acropora Millepora</i> . 11th International Coral Reef Symposium, 7 - 11 July 2008, Fort Lauderdale, USA (<i>oral presentation</i>)
2009	Levy, O. Circadian clocks in corals: the beginning of a story. The evolution of multicellularity: insights from Hydra and other basal metazoans. 14-17 September Tutzing, Germany (<i>oral presentation</i>)
2010	Levy, O. Genome-wide analysis of temporal expression in the coral <i>Acropora millepora</i> , the lowest multicellular animal, in the context of circadian clocks. Euro ISRS Symposium 2010: Reefs in a changing environment 13-17 December 2010, Wageningen, The Netherlands (<i>oral presentation</i>)
2010	Levy, O. Genome-wide analysis of temporal expression in the coral <i>Acropora millepora</i> , the lowest multicellular animal, in the context of circadian clocks. 12th Biennial Meeting Society for research on Biological rhythms. May 22–26, Sandestin Golf and Beach Resort Destin, Florida (<i>Poster</i>)
2011	Levy, O. The complexity of circadian clocks in symbiotic corals. The International Workshop “Searching for Eve: basal metazoans and the evolution of multicellular complexity. 12-15 September Tutzing, Germany (<i>oral presentation</i>)
2012	Levy, O. Circadian clocks in coral-algal symbiosis. 7th International Symbiosis Society Congress Jagiellonian University, Kraków, Poland July 22-28, “The earth’s vast symbiosphere” (<i>oral presentation</i>)
2013	Levy, O. The mystery of synchronising mass spawning events. Unraveling the Developmental Regulatory Network in Early Animals. 23-26 September Tutzing,

Date	Conference and Workshop Abstracts
	September Tutzing, Germany (<i>oral presentation</i>)
2013	Levy, O. , Shahar A, Kaniewska P, The Mystery of Synchronizing Mass Spawning Events; Profiling the Molecular Pathways. 8th International Conference on Coelenterate Biology (ICCB) Eilat, Israel, December 1-6, 2013 (<i>oral presentation</i>)
2016	Levy, O; Sorek M: Master-slave oscillator relationship in symbiotic Aiptasia. 13 th International Coral Reef Symposium. Hawaii June 2016.

Invited Lectures

Conference or Institute	Place and Date	Title of Lecture
13 th International Coral Reef Symposium	Hawaii June 2016	Unwinding the mystery of coral broadcast mass spawning, signaling cascades and the importance of moonlight
Time and Light	Vienna, May 2016	Some Tales about Biological clocks in Cnidarians
The 9th Okazaki Biology Conference Marine Biology II	Japan, October 14-19, 2012	The complexity of circadian clocks in symbiotic corals
8th International Conference on Coelenterate Biology (ICCB)	Eilat, Israel, December 1-6, 2013	Cnidarians Circadian Clock: The Knowns and the Unknowns
The 4th International Symposium for Marine Biology and Biotechnology	Pingtung, September 20-22, 2012	The complexity of circadian clocks in cnidarians. The Omics in the Ocean: Rhythm of Coral Reefs
Scripps Institution of Oceanography University of California	San Diego, CA, USA, 2012	The complexity of circadian clocks in symbiotic corals
International Workshop	Ein-Gedi, Israel, February 26-March 1, 2012	The complexity of circadian clocks in basal metazoans. The diversity, evolution and mechanisms controlling activity patterns
Dept. of Evolutionary and Experimental Biology Alma Mater Studiorum - Università di Bologna	Bologna, Italy, 2011	The complexity of circadian clocks in symbiotic corals
Istituto di Cibernetica "E.Caianiello" National Research Council	Pozzuoli Italy, 2010	Circadian clocks in coral reefs

Conference or Institute	Place and Date	Title of Lecture
1/ Network French research and 2/ develop international collaboration coordination through this initiative. Identified under the name of GDRI (Groupement de Recherche International) and entitled as "Biodiversity of Coral Reefs"	2009	Coral Reefs in the Red Sea
Symbiosis Cell Biology Workshop	Heron Island, Australia, 2007	Light-responsive cryptochromes from the simplest marine eumetazoan animals

Funding Sources

From-To	Funding Agency	Title	Amount
2004-2007	Marie Curie Fellowship (OIF) FP6 Europe	The Blues of Coral Reefs	€240,000
2006-2010	Israel Science Foundation	Circadian clocks in stony corals	\$205,000
2010-2015	EU-PI Zvy Dubinsky (Advanced ERC) (Levy Oren, CI)	Coral-Warm	€3,200,000
2010-2014	Israel Science Foundation (Individual Research)	The Role of Melatonin in Hermatypic Corals	\$281,000
2010-2011	Israel Science Foundation (equipment, Individual Research)	Infrastructure, New closed aquarium system	\$130,000
2011-2012	Israel Ministry of Science (equipment PI Fine Maoz, Banin Ehud Levy Oren)	A controlled coral culturing facility for Climate Change related studies	\$130,000
2011-2014	Ministry of Science, Israel (Infrastructure Grant) (with Dr. Tamar Lotan Haifa University and Dr. Uri Gat, Hebrew University)	The New Emerging Marine Model Organism <i>Nematostella vectensis</i> : Evolutionary, Genomic and Ecological studies with a potential for Industrial applications.	\$480,000
2011-2013	Israel Ministry of Science - Italy Cooperation	Impact of Engineered Nanoparticles On Aquatic Invertebrates	€40,000
2012-2016	The U.S.-Israel Binational Science Foundation (BSF)	The New Emerging Marine Model Organism <i>Nematostella vectensis</i> ; Studying the Genomics, Biology and Evolution of Circadian Clocks	\$178,000

From-To	Funding Agency	Title	Amount
2013-2014	The ASSEMBLE program. Aldo Shemesh (Weizmann) and Levy Oren (BIU)	The relations among the isotope composition of dissolved, inorganic carbon, plankton and surface sediment under variable pH conditions in a natural system, Ischia Island Mediterranean Sea	10,000 €
2013-2015	Israel Ministry of Science - Taiwan Cooperation	The marine symbiotic anemone as the biological sensor for environmental changes: the lipid body as the translation from light to molecules.	\$100,000
2015 - 2018	THE GORDON AND BETTY MOORE FOUNDATION	"Unwinding the circadian clock in the cnidarian <i>Nematostella vectensis</i> in collaboration with Dr. Ann Tarrant WHOI	998,000\$ granted for 3 years

Supervision of Graduate and Post-Graduate Students

Name of Student	Degree, Years Supervised	Thesis Title
Ruth Reef	PhD 2004-2007 co-supervised with Dr. S. Dove, and Prof. O. Hoegh-Guldberg	The synergistic effect of UV and temperature on molecular pathways in corals and zooxanthellae
Jessica Jarett	Honor student 2005-2006 co-supervised with Prof. Hoegh-Guldberg	Distribution, function, and regulation of GFP-like proteins in <i>Montipora digitata</i> on Heron Island reef flat
Eli Shemesh	PhD 2006- 2011 Co-supervised with Prof. Achituv (BIU)	The basic mechanism of circadian clock genes in the coral <i>Stylophora pistillata</i>
Michal Sorek	PhD 2008-2012	The circadian clocks of zooxanthellae, symbiotic algae.
Modi Roopin	PhD 2008 - 2013	The role of melatonin in symbiotic corals
Eldad Gunter-Hoch	PhD 2009 - 2014 Co-supervised with Prof. Shemesh (WIZ)	The circadian mechanism of calcification in stony corals
Yisrael Schnytzer	PhD 2010 – 2016 Co-supervised with Prof. Achituv (BIU)	The circadian rhythm of the mussel <i>Lotia gigantean</i> under in intertidal zone
Dr Matan Oren	2010-2012 Post Doc	The circadian clock in <i>Nematostella</i>

Name of Student	Degree, Years Supervised	Thesis Title
		<i>vectensis</i>
Ya'eli Rosenberg	MSc 2013 - 2015	Gene networking during coral spawning
Mieka Rinsky	MSc 2013 - 2015	<i>Nematostella vectensis</i> circadian clock gene networking
Tom Halevy	MSc 2013 - 2015	<i>Molecular profiles of gene expression in symbiotic corals</i>
Dr. Michal Sorek	Post Doc 2013 -2016	The marine symbiotic anemone as the biological sensor for environmental changes: the lipid body as the translation from light to molecules
Dr. Kenny Schneider	Post Doc 2013 -2015	The circadian clock in <i>Nematostella vectensis</i> molecular aspects and behavior
Dalit Meron	Post Doc 2014	The circadian clock in <i>Nematostella vectensis</i>
Keren Maor-Landaw	PhD – start October 2012	Transcriptomics analysis of coral under global warming and ocean acidification
Ya'eli Rosenberg	PhD – start October 2015	Coral reproduction cycles and light pollution effect in marine milieu
Mieka Rinsky	PhD – start May 2016	<i>Cnidarians circadian clock gene networking</i>
Evaitar Weizman	PhD – start October 2015	<i>Epigenetics in Cnidarians</i>

Date	Honors and Awards
2000	Israel-Australian friends association Travel Award (\$3000)
2002	The Katzir-Katchalsky Fellowship Israel (\$2500)
2004	ICRS 10 LOCAP Fellowship (\$4500)
2007	The FGF fellowship for Excellent Post Doctoral; Weizmann Institute, Department of Environmental Sciences
2007	Journal of Experimental Biology Traveling Fellowship (\$4000)
2007-2009	The Koshland Fellowship awarded by the Weizmann Institute (\$5,000)
2008	Research in Paris - Visiting Fellowships for Foreign Researchers to Paris, France
2014	Japan Society for the Promotion of Science (Long Term)
2016	Tropical Biosphere Research Center, University of the Ryukyus

Date	International Course	
Summer 1997	University of Hawaii at Manoa	Reproduction of Coral Reefs

Teaching courses

From-To	Institute	Course
1997-2002	Bar-Ilan University	Oceanography
1997-2003	Bar-Ilan University	Ecology
1997-2003	Bar-Ilan University	Marine Biology
2003-2004	Weizmann Institute of Science, Israel	Introduction to Stable Isotopes in Marine Environments
2008-	Bar-Ilan University	Limnology & Oceanography
2009-2010	Bar-Ilan University	The Biology & Oceanography of the Mediterranean Sea
2010-	Bar-Ilan University	Circadian Clocks
2010-	The Interuniversity Institute for Marine Sciences in Eilat	The rhythmicity and periodicity of Marine systems

List of Publications

Articles

2016

- Jarosław Stolarski, Francesca R. Bosellini, Carden C. Wallace, Anne Gothmann, Maciej Mazur, Isabelle Domart-Coulon, Eldad Gutner-Hoch, Rolf D. Neuser, **Oren Levy**, Aldo Shemesh, and Anders Meibom (2016) A unique coral biomineralization pattern has resisted 40 million years of major ocean chemistry change. Scientific Reports DOI: 10.1038/srep27579.
- Debashish Bhattacharya, Shobhit Agrawal, Manuel Aranda, Sebastian Baumgarten, Mahdi Belcaid, Jeana L Drake, Douglas Erwin, Sylvian Foret, Ruth D Gates, David F Gruber, Bishoy Kamel, Michael P Lesser, **Oren Levy**, Yi Jin Liew, Matthew MacManes, Tali Mass, Monica Medina, Shaadi Mehr, Eli Meyer, Dana C Price, Hollie M Putnam, Huan Qiu, Chuya Shinzato, Eiichi Shoguchi, Alexander J Stokes, Sylvie Tambutté, Dan Tchernov, Christian R Voolstra, Nicole Wagner, Charles W Walker, Andreas PM Weber, Virginia Weis, Ehud Zelzion, Didier Zoccola, Paul G Falkowski (2016). Comparative genomics explains the evolutionary success of reef-forming corals. eLife <http://dx.doi.org/10.7554/eLife.13288>
- Oren Levy**, Sarit Karako-Lampert, Hiba Waldman Ben-Asher, Didier Zoccola, Gilles Pagès, Christine Ferrier-Pagès (2016). Molecular assessment of the effect of light and heterotrophy in the scleractinian coral *Stylophora pistillata*. Proc. R. Soc. B Volume: 283 Issue: 1829.
- Keren Maor-Landaw, **Oren Levy** (2016) Gene expression profiles during short-term heat stress; branching vs. massive Scleractinian corals of the Red Sea. PeerJ <https://doi.org/10.7717/peerj.1814>

5. Eldad Gutner-Hoch, Kenneth Schneider, Jaroslaw Stolarski, Isabelle Domart-Coulon, Ruth Yam, Anders Meibom, Aldo Shemesh, **Oren Levy** (2016) Evidence for rhythmicity pacemaker in the calcification process of Scleractinian coral. Scientific reports doi: [10.1038/srep20191](https://doi.org/10.1038/srep20191)
6. *John J. Lee, Megan Cevasco, Jorge Morales, Morgan Billick, Maoz Fine, Oren Levy* (2016). Variation among the *Marginopora vertbralis* collected from the Great Barrier Reef Reef, Australia. The Journal of Foraminiferal Research 46 (2), DOI: 10.2113/gsjfr.46.2.201
7. Maor-Landaw K and **Levy O.** Survey of cnidarian gene expression profiles in response to environmental stressors; Summarizing 20 years of research, what are we heading for?" In: Medusa and her Children (publication due 2016).
8. E. Caroselli, V. Brambilla, F. Ricci, G. Mattioli, **O. Levy**, G. Falini, Z. Dubinsky, S. Goffredo (2016) Inferred calcification rate of a temperate azooxanthellate caryophylliid coral along a wide latitudinal gradient. Coral Reefs DOI 10.1007/s00338-016-1422-3

2015

9. 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 <http://dx.doi.org/10.7554/eLife.09991>
10. E. Caroselli, F. Ricci, V. Brambilla, G. Mattioli, **O. Levy**, G. Falini, Z. Dubinsky, S. Goffredo (2015) Relationships between growth, population dynamics, and environmental parameters in the solitary non-zooxanthellate scleractinian coral *Caryophyllia inornata* along a latitudinal gradient in the Mediterranean Sea. Coral Reefs DOI 10.1007/s00338-015-1393-9
11. Chiara Marchini, Valentina Airi, Roberto Fontana, Giada Tortorelli, Marta Rocchi, Giuseppe Falini, **Oren Levy**, Zvy Dubinsky, Stefano Goffredo (2015) Annual reproductive cycle and unusual embryogenesis of a temperate coral in the Mediterranean Sea. PloS one. <http://dx.doi.org/10.1371/journal.pone.0141162>
12. Paola Fantazzini, Stefano Mengoli, Luca Pasquini, Villiam Bortolotti, Leonardo Brizi, Manuel Mariani, Matteo Di Giosia, Simona Fermani, Bruno Capaccioni, Erik Caroselli, Fiorella Prada, Francesco Zaccanti, **Oren Levy**, Zvy Dubinsky, Jaap A Kaandorp, Pirom Konglerd, Jörg U Hammel, Yannicke Dauphin, Jean-Pierre Cuif, James C Weaver, Katharina E Fabricius, Wolfgang Wagermaier, Peter Fratzl, Giuseppe Falini, Stefano Goffredo (2015) Gains and losses of coral skeletal porosity changes with ocean acidification acclimation. Nature communications doi:10.1038/ncomms8785
13. Erik Caroselli, Valentina Nanni, **Oren Levy**, Giuseppe Falini, Zvy Dubinsky, Stefano Goffredo (2015) Latitudinal variations in biometry and population density of a Mediterranean solitary coral. Limnology and Oceanography DOI: 10.1002/lno.10100
14. Matan Oren, Ann M Tarrant, Shahar Alon, Noa Simon-Blecher, Idan Elbaz, Lior Appelbaum, **Oren Levy** (2015) Profiling molecular and behavioral circadian rhythms in the non-symbiotic sea anemone *Nematostella vectensis* doi:10.1038/srep11418
15. Luca Pasquini, Alan Molinari, Paola Fantazzini, Yannicke Dauphin, Jean-Pierre Cuif, **Oren Levy**, Zvy Dubinsky, Erik Caroselli, Fiorella Prada, Stefano Goffredo, Matteo Di Giosia, Michela Reggi, Giuseppe Falini (2015) Isotropic microscale mechanical properties of coral skeletons DOI: 10.1098/rsif.2015.0168
16. Erik Caroselli, Giuseppe Falini, Stefano Goffredo, Zvy Dubinsky, **Oren Levy** (2015) Negative response of photosynthesis to natural and projected high seawater temperatures estimated by pulse amplitude modulation fluorometry in a temperate coral. Front Physiol. 2015; 6: 317. doi: [10.3389/fphys.2015.00317](https://doi.org/10.3389/fphys.2015.00317)

17. Tarrant AM, Gilmore TD, Reitzel AM, **Levy O**, Technau U, Martindale MQ (2015). Current directions and future perspectives from the third *Nematostella* research conference. *Zoology*; 118 135-140.
18. Goffredo S, Mancuso A, Caroselli E, Prada F, Dubinsky Z, Falini G, **Levy O**, Fantazzini P, Pasquini L (2015) Skeletal mechanical properties of Mediterranean corals along a wide latitudinal gradient. *Coral Reefs*, doi 10.1007/s00338-014-1222-6

2014

19. Sorek M, Díaz-Almeyda. E, Medina. M, **Levy O** (2014) Circadian clocks in symbiotic corals: the duet between *Symbiodinium* algae and their coral-host. Invited review for *Marine Genomics*. <http://dx.doi.org/10.1016/j.margen.2014.01.003>
20. Ambrosone A, Scotto di Vettimo MR, Malvindi MA, Roopin M, **Levy O**, Marchesano V, Pompa PP, Tortiglione C, Tino A (2014) Impact of amorphous SiO₂ nanoparticles on a living organism: morphological, behavioral, and molecular biology implications. *Front. Bioeng. Biotechnol.* 2:37. doi: 10.3389/fbioe.2014.00037
21. Adamiano A, Goffredo S, Dubinsky Z, **Levy O**, Fermani S, Fabbri D, Falini G (2014) Analytical pyrolysis-based study on intra-skeletal organic matrices from Mediterranean corals. *Analytical and Bioanalytical Chemistry*, doi: 10.1007/s00216-014-7995-1
22. Reggi M, Fermani S, Landi V, Sparla F, Caroselli E, Gizzi F, Dubinsky Z, **Levy O**, Cuif JP, Dauphin Y, Goffredo S, Falini G (2014) Biomineralization in Mediterranean corals: The role of the intra-skeletal organic matrix. *Crystal Growth & Design*, doi:10.1021/cg5003572
23. Sorek M, **Levy O** (2014) Coral spawning behavior and timing. In: *Annual, Lunar, and Tidal Clocks*. Springer Editors Numata and Helm; pages 81-98.
24. Goffredo S., Prada F, Caroselli E., Capaccioni B., Zaccanti F., Pasquini L., Fantazzini P., Fermani S., Reggi M., **Levy O**, Fabricius KE., Dubinsky Z, Falini G (2014) Biomineralization control related to population density under ocean acidification. *Nature Climate Change* 01/2014; DOI:10.1038/nclimate2241
25. Airi V, Gizzi F, Falini G, **Levy O**, Dubinsky Z, Goffredo S (2014) Reproductive efficiency of a Mediterranean endemic zooxanthellate coral decreases with increasing temperature along a wide latitudinal gradient. *PLoS ONE* 01/2014; 9(3):e91792. DOI:10.1371/journal.pone.0091792
26. Oren M, Brikner I, Appelbaum L, **Levy O** (2014) Fast neurotransmission related genes are expressed in non-nervous endoderm in the sea anemone *Nematostella vectensis*. *PLoS ONE* 01/2014; 9(4):e93832. DOI:10.1371/journal.pone.0093832
27. Pernice M, **Levy O** (2014) Novel tools integrating metabolic and gene function to study the impact of the environment on coral symbiosis. *Frontiers in microbiology*, 5
28. 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
29. Karako-Lampert S, Zoccola D, Salmon-Divon M, Katzenellenbogen M, Tambutté S, Bertuccib A, Hoegh-Guldberg O, Deleuryd E, Allemand D, **Levy O** (2014) Transcriptome analysis of the scleractinian coral *Stylophora pistillata*. 9(2):e88615 *PLoS ONE*

2013

30. Roopin M, Yacobi YZ, **Levy O** (2013) Occurrence, diel patterns, and the influence of melatonin on the photosynthetic performance of cultured *Symbiodinium*. *J Pineal Res* Doi:10.1111/jpi.12046

31. Sorek M, Yacobi YZ, Roopin M, Berman-Frank I, **Levy O** (2013) Photosynthetic circadian rhythmicity patterns of *Symbiodinium*, the coral endosymbiotic algae. Proc R Soc B Doi:10.1098/rspb.2012.2942 1471-2954
32. Reitzel AM, Tarrant AM, **Levy O** (2013) Circadian clocks in the cnidaria: Environmental entrainment, molecular regulation, and organismal outputs Integr. Comp. Biol. doi:10.1093/icb/ict024
33. Fantazzini P, Mengoli S, Evangelisti S, Pasquini L, Mariani M, Brizi L, Goffredo S, Caroselli E, Prada F, Falini G, **Levy O**, Dubinsky Z (2013) Time-domain NMR study of Mediterranean scleractinian corals reveals skeletal-porosity sensitivity to environmental changes. Environmental Science & Technology, 47:12679–12686
34. Reggi M, Fermani S, Sparla F, Goffredo S, Dubinsky Z, **Levy O**, Dauphin Y, Cuif JP (2013) Control of aragonite deposition in colonial corals by intra-skeletal macromolecules. Journal of Structural Biology, 183:226-238
35. Kronfeld-Schor N, Dominoni D, De la Iglesia H, **Levy O**, Herzog ED, Dayan T, Helfrich-Forster C (2013) Chronobiology by moonlight. Proc R Soc B., 280 (1765)

2012

36. Sorek., M and **Levy, O** (2012) Influence of the quantity and quality of light on photosynthetic periodicity in coral endosymbiotic algae. PLoS ONE, 7 e43264.
37. Caroselli E, Mattioli G, **Levy O**, Falini G, Dubinsky Z, Goffredo S (2012) Inferred calcification rate of a Mediterranean azooxanthellate coral is uncoupled with sea surface temperature along an 8° latitudinal gradient. Frontiers in Zoology
38. Roopin M, **Levy, O** (2012) Melatonin distribution reveals clues to its biological significance in basal metazoans. PLoS ONE, e52266. doi:10.1371/journal.pone.0052266
39. Roopin M and **Levy O** (2012) Temporal and histological evaluation of melatonin patterns in a 'basal' metazoan. Journal of Pineal Research, doi: 10.1111/j.1600-079X.2012.00994.x
40. Caroselli E, Zaccanti F, Mattioli G, Falini G, **Levy O**, Dubinsky Z, Goffredo S (2012) Growth and demography of the solitary scleractinian coral *Leptopsammia pruvoti* along a sea surface temperature gradient in the Mediterranean Sea. PLoS ONE, 7:e37848
41. Sorek., M and **Levy, O** (2012) The effect of temperature compensation on the circadian rhythmicity of photosynthesis in *Symbiodinium*, coral-symbiotic algae. Scientific Reports, NPG. 10.1038/srep00536.
42. Goffredo S, Marchini C, Rocchi M, Airi V, Caroselli E, Falini G, **Levy O**, Dubinsky Z, Zaccanti F (2012) Unusual pattern of embryogenesis of *Caryophyllia inornata* (Scleractinia, Caryophylliidae) in the Mediterranean Sea. Maybe agamic reproduction? Journal of Morphology, 273:943-956.
43. Goffredo S, Caroselli E, Mezzo F, Laiolo L, Vergni P, Pasquini L, **Levy O**, Zaccanti F, Tribollet A, Dubinsky Z, Falini G (2012) The puzzling presence of calcite in skeletons of modern solitary corals from the Mediterranean Sea. Geochimica et Cosmochimica Acta, 85:187-199.

2011

44. Goffredo S, Vergni P, Reggi M, Caroselli E, Sparla F, **Levy O**, Dubinsky Z, Falini G (2011) The skeletal organic matrix from Mediterranean coral *Balanophyllia europaea* influences calcium carbonate precipitation. PLoS ONE, 6:e22338

45. Caroselli E, Prada F, Pasquini L, Nonnis Marzano F, Zaccanti F, Falini G, **Levy O**, Dubinsky Z, Goffredo S (2011) Environmental implications of skeletal micro-density and porosity variation in two scleractinian corals. *Zoology*, 114:255-264.
46. **Levy O**, Rosenfeld M, Loya Y, Yam R, Mizrahi I, Shemesh A (2011) Anthropogenic stressors and eutrophication processes as recorded by stable isotope compositions in coral skeletons. *Biogeosciences Discussions*, 7:7657-7672
47. **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

2010 - 2000

48. Mass T, Kline DI, Roopin M, Cohen S, Veal CJ, Iluz D, **Levy O** (2010) The spectral quality of light is a key driver of photosynthesis and photoadaptation in *Stylophora pistillata* colonies from different depths. *Journal of Experimental Biology*, 213:4084-4091
49. Ferrier-Pages C, Rottier C, Beraud E, **Levy O** (2010) Experimental assessment of the feeding effort of three scleractinian coral species during a thermal stress: effect on the rates of photosynthesis. *Journal of Experimental Marine Biology and Ecology*, 390:118-124
50. Lee JJ, Cervasco MH, Morales J, Billik M, Fine M, **Levy O** (2010) Symbiosis drove cellular evolution. Symbiosis fueled evolution of lineages of Foraminifera (eukaryotic cells) into exceptionally complex giant protists. Initial study of a very atypical new Soritine symbiosis. *Symbiosis*, 51:13-25
51. Reef R, Dunn S, **Levy O**, Dove S, Shemesh E, Brikner I, Leggat W, Hoegh-Guldberg O (2009) Photoreactivation is the main repair pathway for UV induced DNA damage in coral planulae. *Journal of Experimental Biology*, 212:2760-2766
52. Schneider K, **Levy O**, Dubinsky Z, Erez J. (2009). In-situ diel cycles of photosynthesis and calcification in hermatypic corals. *Limnology and Oceanography*, 54:1995-2002
53. Stambler N, **Levy O**, Vaki L (2008) Photosynthesis and respiration of hermatypic zooxanthellate Red Sea corals from 5-75 m depth. *Israel Journal of Plant Sciences*, 56:45-53
54. Lee JJ., Fine M, **Levy O**, Morales J (2008) A note on asexual reproduction of a *Marginopora sp.* from a modern deep-water population in the Heron-Wistari channel. *Journal of Foraminiferal Research* 39:4-7
55. **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. **Note* Coral "CRY" for the Moon; Cell 131, P. 1025 *Leading Edge Molecular Biology Select* December 14, 2007
56. **Levy O**, Achituv Y, Yacobi Y, Stambler N, Dubinsky Z (2006) The impact of spectral compositions and light periodicity on the activity of two antioxidant enzymes (SOD and CAT) in the coral *Favia fava*. *Journal of Experimental Marine Biology and Ecology*, 328:35-46
57. **Levy O**, Dubinsky Z, Achituv Y, Yacobi Y, Stambler N (2006) Diel "tuning" of coral metabolism: Physiological responses to light cues. *Journal of Experimental Biology*, 209:273-283
58. **Levy O**, Achituv Y, Dubinsky Z, Erez J (2006) Diurnal polyp expansion behavior in stony corals may enhance carbon availability for symbionts photosynthesis. *Journal of Experimental Marine Biology and Ecology*, 333:1-11
59. **Levy O**, Rosenfeld M, Yam, R, Shemesh A (2006). Heterogeneity of corals skeletons isotopic compositions during the 1998 bleaching event. *Limnology and Oceanography*, 51(2):1142-1148

60. Wielgus J, **Levy O** (2006). Differences in photosynthetic activity between coral sections infested and not infested by boring spionid polychaetes. *Journal of the Marine Biological Association of the United Kingdom*, 86:1-2
61. **Levy O**, Achituv Y, Schnider K, Dubinsky Z, Gorbunov M (2004) Diurnal hysteresis in coral photosynthesis. *Marine Ecology Progress Series*, 268:105-117
62. **Levy O**, Dubinsky Z, Achituv Y. (2003) Photobehavior of stony corals; responses to light spectra and intensity. *Journal of Experimental Biology*, 206:4041-4049
63. **Levy O**, Mizrachi L, Chadwick-Furman NE, Achituv Y (2001) Factors controlling the expansion behavior of *Favia fava* (Cnidaria: Scleractinia): Effects of light, flow and planktonic prey. *Biological Bulletin (Woods Hole)*. 200:118-126
64. Zakai D, **Levy O**, Chadwick-Furman N (2000). Experimental fragmentation reduces sexual reproductive output by the reef building coral *Pocillopora damicornis*. *Coral Reefs*, 19:185-189