

IUI Publications

2018 [incomplete]

1. **Akiva, A., Neder, M., Kalil, K., Gavriel, R., Pinkas, I., Goobes, G. & T. Mass** (2018) Minerals in the pre-settled coral *Stylophora pistillata* crystallize via protein and ion changes. *Nature Comm.* 9:1880.
2. **Akkaynak, D. & T. Treibitz** (2018) A revised underwater image formation model. *In: Proc. CVPR* [in press].
3. **Albright, R., Takeshita, Y., Koweek, D.A., Ninokawa, A., Wolfe, K., Rivlin, T., Nebuchina, Y., Young, J. & K. Caldeira** (2018) Carbon dioxide addition to coral reef waters suppresses net community calcification. *Nature* 555:516-519.
4. **Antler, G. & A. Pellerin** (2018) A critical look at the combined use of sulfur and oxygen isotopes to study microbial metabolisms in methane-rich environments. *Front. Microbiol.* 9:519.
5. **Bar, N., Agnon, A., Yehudai, M., Lazar, B., Shaked, Y. & M. Stein** (2018) Last interglacial sea levels and regional tectonics from fossil coral reefs in the northeast Gulf of Aqaba. *Quat. Sci. Rev.* 191:41-56
6. **Barak-Gavish, N., Frada, M.J., Lee, P.A., DiTullio, G.R., Ku, C., Malitsky, S., Aharoni, A., Green, S.J., Kartvelishvily, E., Sheyn, U., Shartz, D. & A. Vardi** (2018) Bacterial virulence against an oceanic bloom-forming phytoplankter is mediated by algal DMSP. [in press]
7. **Baran, N., Goldin, S., Maidanik, I. & D. Lindell** (2018) Quantification of diverse virus populations in the environment using the polony method. *Nat. Micro.* 3:62-72.
8. **Bellworthy, J. & M. Fine** (2018) The Red Sea Simulator: A high precision climate change mesocosm with automated monitoring for the long-term study of coral reef organisms. *Limnol. Oceanogr: Methods* [in press].
9. **Ben-Ari, H., Paz, M. & D. Sher** (2018) The chemical armament of reef-building corals: Inter- and intra-specific variation and the identification of an unusual actinoporin in *Stylophora pistillata*. *Sci. Repts.* 8:251.
10. **Benayahu, D., Sharabi, M., Pomeraniec, L., Awad, L. Haj-Ali, R. & Y. Benayahu** (2018) Unique collagen fibers for biomedical applications. *Mar. Drugs* 16:102.
11. **Berenshtein, I., Paris, C.B., Gildor, H., Fredj, E., Amitai, Y., Lapidot, O. & M. Kiflawi** (2018) Auto-correlated directional swimming can enhance settlement success and connectivity in fish larvae. *J. Theoret. Biol.* 439:76-85.

12. **Britstein, M., Saurav, K., Teta, R., Della Sala, G., Bar-Shalom, R., Steoppelli, N., Zoccarato, L., Constantino, V. & L. Steindler** (2018) Identification and chemical characterization of N-acyl-homoserine lactone quorum sensing signals across sponge species and time. *FEMS Micro. Ecol.* 94:fix182.
13. **Diab, M., Shreteh, K., Afik, N., Volokh, M., Abramovich, S., Abdu, U. & T. Mokari** (2018) Design of hierarchal 3D metal oxide structures for water oxidation and purification. *Adv. Sustainable Syst.* 1800001
14. **Evans, D., Muller, W. & J. Erez** (2018) Assessing foraminifera biomineralisation models through trace element date of cultures under variable seawater chemistry. *Geochim. Cosmochim.* [in press].
15. **Feldman, B., Shlesinger, T. & Y. Loya** (2018) Mesophotic coral-reef environments depress the reproduction of the coral *Paramontastraea peresi* in the Red Sea. *Coral Reefs* 37:201-214.
16. **Gavish, A.R., Shapiro, O.H., Kramarsky-Winter, E. & A. Vardi** (2018) Microscale tracking of coral disease reveals timeline of infection and heterogeneity of polyp fate. *bioRxiv* [in press].
17. **Gavriel, R., Nadav-Tsubery, M., Keinan-Adamsky, K., Glick, Y., Yarmolenko, A., Berman, A, Mass, T. & G. Goobes** (2018) Influence of coral protein CARP3 and its domains on biomimetic formation of aragonite and mg-calcite phases. *Adv. Funct. Mater.* 1707321:1-10.
18. **Gibbin, D., Gavish, A., Domart-Coulon, I., Kramarsky-Winter, E., Shapiro, O., Meibom, A. & A. Vardi** (2018) Using NanoSIMS coupled with microfluidics to visualize the early stages of coral infection by *Vibrio coralliilyticus*. *BMC Microbiology* 18:39.
19. **Gilad, E., Kidwell, S.M., Benayahu, Y. & Y. Edelman-Furstenberg** (2018) Unrecognized loss of seagrass communities based on molluscan death assemblages: Historic baseline shift in tropical Gulf of Aqaba, Red Sea. *Mar. Ecol. Prog. Ser.* 589:73-83.
20. **Grinblat, M., Fine, M., Tikochinski, Y. & Y. Loya** (2018) *Stylophora pistillata* in the Red Sea demonstrate higher GFP fluorescence under ocean acidification conditions. *Coral Reefs* 37:309-320.
21. **Gutner-Hoch, E., Martins, R., Oliveira, T., Maia, F., Soares, A.M.V.M., Loureiro, S., Piller, C., Preiss, I., Weiss, M., Larroze, S.B., Teixeira, T., Tedim, J. & Y. Benayahu** (2018) Antimacrofouling efficacy of innovative inorganic nanomaterials loaded with booster biocides. *J. Mar. Sci. Eng.* 6:6.
22. **Hall, E.R., Muller, E.M., Goulet, T., Bellworthy, J., Ritchie, K.B. & M. Fine** (2018) Eutrophication may compromise the resilience of the Red Sea coral *Stylophora pistillata* to global change. *Mar. Poll. Bull.* 131:701-711.

23. **Jacobi, Y., Yahel, G. & N. Shenkar** (2018) Efficient filtration of micron and submicron particles by ascidians from oligotrophic waters. *Limnol. Oceanogr.* 63:S267-S279.
24. **Jacobs, C. & R. Holzman** (2018) Conserved spatio-temporal patterns of suction-feeding flows across aquatic vertebrates: A comparative flow visualization study. *J. Exp. Biol.* 221:jeb174912.
25. **Keren, T., Kiflawi, M., Martin, C.H., China, V., Mann, O. & R. Holzman** (2018) A complex performance landscape for suction-feeding reveals constraints and adaptations in a population of reef damselfish. *bioRxiv* [in press].
26. **Kimmerling, N., Zuqert, O., Amitai, G., Gurevich, T., Armoza-Zvuloni, R., Kolesnikov, I., Berenshtein, I., Melamed, S., Gilad, S., Benjamin, S., Rivlin, A., Ohavia, M., Paris, C.B., Holzman, R., Kiflawi, M. & R. Sorek** (2018) Quantitative species-level ecology of reef fish larvae via metabarcoding. *Nat. Ecol. Evol.* 2:306-316.
27. **Katz, O. & G. Yagoda-Biran** (2018) Overestimation of historical earthquake magnitudes in the Near East due to common site effects. *Eng. Geol.* 234:50-54.
28. **Kuhn, A.M., Fennel, K. & I. Berman-Frank** (2018) Biogeochemical evidence of heterotrophic N₂ fixation in the Gulf of Aqaba (Israel), Red Sea. *Biogeosciences Discuss.* [in press].
29. **Laber, C.P., Hunter, J.E., Carvalho, F., Collins, J.R., Hunter, E.J., Schieler, B.M., Boss, E., More, K., Frada, M., Thamtrakoln, K., Brown, C.M., Haramaty, L., Ossolinski, J., Fredricks, H., Nissimov, J.I., Vandzura, R., Sheyn, U., Lehahn, Y., Chant, R.J., Martins, A.M., Coolen, M.J.L., Vardi, A., DiTullio, G.R., Van Mooy, B.A.S. & K.D. Bidle** (2018) *Coccolithovirus* facilitation of carbon export in the North Atlantic. *Nature Microbiol.* 3:537-547.
30. **Lavy, A., Keren, R., Yu, K., Thomas, B.C., Alvarez-Cohen, L., Banfield, J.F. & M. Ilan** (2018) A novel Chromatiales bacterium is a potential sulfide oxidizer in multiple orders of marine sponges. *Environ. Micro.* 20:800-814.
31. **Levitt-Barmats, Y. & N. Shenkar** (2018) Observations on the symbiotic relationship between the caridean *Odontonia sibogae* (Bruce, 1972) and its ascidian host *Herdmania momus* (Savigny, 1816). *PLoS One* 13: e0192045.
32. **Linden, B., Huisman, J. & B. Rinkevich** (2018) Circatrigintan instead of lunar periodicity of larval release in a brooding coral species. *Sci. Rep.* 8:5668.
33. **Masse, A., Domart-Coulon, I., Golubic, S., Duche, D. & A. Tribollet** (2018) Early skeletal colonization of the coral holobiont by the microboring Ulvophyceae *Ostreobium* sp. *Sci. Repts.* 8:2293.

34. **Milstein, A., Levy, A., Neori, A., Harpaz, S., Shpigel, M. & L. Guttman** (2018) Water quality, ecological processes and management procedures in a periphyton biofiltration system in mariculture: A statistical analysis. *Aquac. Res.* 49:1491-1503.
35. **Mori, T., Cahn, J.K.B., Wilson, M.C., Meoded, R.A., Wiebach, V., Martinez, A.F.C., Helfrich, A.J.N., Albersmeier, A., Wibberg, D., Dätwyler, S., Keren, R., Lavy, A., Rückert, C., Ilan, M., Kalinowski, J., Matsunaga, S., Takeyama, H. & J. Piel** (2018) Single-bacterial genomics validates rich and varied specialized metabolism of uncultivated *Entotheonella* sponge symbionts. *PNAS* 115:1718-1723.
36. **Oron, S., Abramavoch, S., Almogi-Labin, A., Woeger, J. & J. Erez** (2018) Depth related adaptations in symbiont bearing benthic foraminifera: New insights from a field experiment on *Operculina ammonoides*. *Sci. Rep.* 8:9560.
37. **Perry, O., Bronstein, O., Simon-Blecher, N., Atkins, A., Kupriyanova, E., ten Hove, H., Levy, O. & M. Fine** (2018) On the genus *Spirobranchus* (Annelida, Serpulidae) from the northern Red Sea, and a description of a new species. *Invert. System.* 32:605-626.
38. **Pushkarev, A., Hevroni, G., Roitman, S. Shin, J., Choi, A., Jung, K-H. & O. Beja** (2018) The use of a chimeric rhodopsin vector for the detection of new proteorhodopsins based on color. *Front. Microbiol.* 9:439.
39. **Qiu, X., Neori, A., Kim, J.K., Yarish, C., Shpigel, M., Guttman, L., Ben Ezra, D., Odintsov, V. & D.A. Davis** (2018) Evaluation of green seaweed *Ulva* sp. as a replacement of fish meal in plant-based practical diets for Pacific white shrimp, *Litopenaeus vannamei*. *J. Appl. Phycol.* 30:1305-1316.
40. **Qiu, X., Neori, A., Kim, J.K., Yarish, C., Shpigel, M., Guttman, L., Ben Ezra, D., Odinstov, V. & D.A. Davis** (2018) Green seaweed *Ulva* sp. as an alternative ingredient in plant-based practical diets for Pacific white shrimp, *Litopenaeus vannamei*. *J. Appl. Phycol.* 30:1317-1333
41. **Rahav, E., Paytan, A., Mescioglu, E., Galletti, Y., Rosenfeld, S., Raveh, O., Santinelli, C., Ho, T-Y. & H. Barak** (2018) Airborne microbes contribute to N₂ fixation in surface waer of the Northern Red Sea. *Geophys. Res. Lett.* [in press].
42. **Schnytzer, Y., Simon-Blecher, N., Li, J., Waldman Ben-Asher, H., Salmon-Divon, M., Achituv, Y., Hughes, M.E. & O. Levy** (2018) Tidal and diel orchestration of behaviour and gene expression in an intertidal mollusk. *Sci. Rep.* 8:4917.
43. **Shefy, D., Shashar, N. & B. Rinkevich** (2018) The reproduction of the Red Sea coral *Stylophora pistillata* from Eilat: 4-decade perspective. *Mar. Biol.* 165:27.
44. **Shlesinger, T., Grinblat, M., Rapuano, H., Amit, T. & Y. Loya** (2018) Can mesophotic reefs replenish shallow reefs? Reduced coral reproductive performance casts a doubt. *Ecology* 99:421-437.

45. **Shpigel, M., Shauli, L., Odinstov, V., Ben-Ezra, D., Neori, A. & L. Guttman** (2018) The sea urchin, *Paracentrotus lividus*, in an Integrated Multi-Trophic Aquaculture (IMTA) system with fish (*Sparus aurata*) and seaweed (*Ulva lactuca*): nitrogen partitioning and proportional configurations. *Aquaculture* 490:260-269.
46. **Sorek, M., Schnytzer, Y., Waldman Ben-Asher, H., Caspi, V.C., Chen, C-S., Miller, D.J. & O. Levy** (2018) Setting the pace: Host rhythmic behaviour and gene expression patterns in the facultatively symbiotic cnidarian *Aiptasia* are determined largely by *Symbiodinium*. *Microbiome* 6:83.
47. **Torfstein, A., Goldstein, S.L. & M. Stein** (2018) Enhanced Saharan dust input to the Levant during Heinrich stadials. *Quat. Sci. Rev.* 186:142-155.
48. **Torfstein, A. & S.S. Kienast** (2018) No correlation between atmospheric dust and surface ocean chlorophyll-a in the oligotrophic Gulf of Aqaba, Northern Red Sea. *J. Geophys. Res.: Biogeosciences* 123:391-405.
49. **Yavno, S. & R. Holzman** (2018) Do viscous forces affect survival of marine fish larvae? Revisiting the 'safe harbour' hypothesis. *Rev. Fish Biol. Fisheries* 28:201-212.
50. **Zieba, G., Smith, C., Fox, M.G., Yavno, S., Zahorska, E., Przybylski, M., Masson, G., Cucherousset, J., Verreycken, H., van Kleef, H.H. & G.H. Copp** (2018) Red operculum spots, body size, maturation and evidence for a satellite male phenotype in non-native European populations of pumpkinseed *Lepomis gibbosus*. *Ecol. Freshw. Fish.* 27:874-883.

2017

1. **Abehsera, S., Peles, S., Tynyakov, J., Bentov, S., Aflalo, E.D., Li, S., Li, F., Xiang, J. & A. Sagi** (2017) MARS: A protein family involved in the formation of vertical skeletal elements. *J. Struct. Biol.* 198:92-102.
2. **Akkaynak, D., Treibitz, T., Shlesinger, T., Tamir, R., Loya, Y. & D. Iluz** (2017) What is the space of attenuation coefficients in underwater computer vision? *In: Proc. CVPR* 568-577.
3. **Alamaru, A., Heksema, B.W., van der Meij, S.E.T. & D. Huchon** (2017) Molecular diversity of benthic ctenophores (Coeloplanidae). *Sci. Rep.* 7:6365.
4. **Alcolombri, U., Lei, L., Meltzer, D., Vardi, A. & Tawfik** (2017) Assigning the algal source of dimethylsulfide using a selective lyase inhibitor. *ACS Chem. Biol.* 12:41-46.
5. **Allen, J.A., Akkaynak, D., Schnell, A.K. & R.T. Hanlon** (2017) Dramatic fighting by male cuttlefish for a female mate. *Am. Nat.* 190:144-151.
6. **Ambrosone, A., Roopin, M., Pelaz, B., Abselmonem, A.M., Ackermann, L-M., Mattera, L., Alloca, M., Tino, A., Klapper, M., Parak, W.J., Levy, O. & C. Tortiglione** (2017) Dissecting common and divergent molecular pathways elicited by CdSe/ZnS quantum dots in freshwater and marine sentinel invertebrates. *Nanotoxicology* 11:289-303.
7. **Andradi-Brown, D.A., Vermeij, M.J.A., Slattery, M., Lesser, M., Bejarano, I., Appeldoorn, R., Goodbody-Gringley, G., Chequer, A.D., Pitt, J.M., Eddy, Co., Smith, S.R., Brokovich, E., Pinheiro, H.T., Jessup, M.E., Shepherd, B., Rocha, L.A., Curtis-Quick, J., Eyal, G., Noyes, T.J., Rogers, A.D. & D.A. Exton** (2017) Large-scale invasion of western Atlantic mesophotic reefs by lionfish potentially undermines culling-based management. *Biol. Invasions* 19:939-954.
8. **Baranes, A., Stern, N. & M. Goren** (2017) First record of *Pristipomoides multidentis* (Day, 1871) from the Gulf of Aqaba, with a note on the species of *Pristipomoides* in the Red Sea (Actinopterygii: Lutjanidae). *Zool. Mid. East* 63:136-140.
9. **Bednarz, V.N., Grover, R., Maguer, J-P., Fine, M. & C. Ferrier-Pages** (2017) The assimilation of diazotroph-derived nitrogen by scleractinian corals depends on their metabolic status. *mBio* 8:e02058-16.
10. **Belhassen, Y., Rousseau, M., Tynyakov, J. & N. Shashar** (2017) Evaluating the attractiveness and effectiveness of artificial coral reefs as a recreational ecosystem service. *J. Environ. Manage.* 203:448-456.
11. **Bellworthy, J. & M. Fine** (2017) Beyond peak summer temperatures, branching corals in the Gulf of Aqaba are resilient to thermal stress but sensitive to high light. *Coral Reefs* 36:1071-1082.

12. **Benayahu, Y., McFadden, C.S. & E. Shoham** (2017) Search for mesophotic octocorals (Cnidaria, Anthozoa) and their phylogeny: I. A new sclerite-free genus from Eilat, northern Red Sea. *ZooKeys* 680:1-11.
13. **Benayahu, Y., McFadden, C.S., Shoham, E. & L.P. van Ofwegen** (2017) Search for mesophotic octocorals (Cnidaria, Anthozoa) and their phylogeny. II. A new zooxanthellate species from Eilat, northern Red Sea. *ZooKeys* 676:1-12.
14. **Bertrand, J.A.M., Borsa, P. & W-J. Chen** (2017) Phylogeography of the sergeants *Abudefduf sexfasciatus* and *A. vaigiensis* reveals complex introgression patterns between two widespread and sympatric Indo-West Pacific reef fishes. *Mol. Ecol.* 26:2527-2542.
15. **Blonder, B., Boyko, V., Turchyn, A.V., Antler, G., Sinichkin, U., Knossow, N., Klein, R. & A. Kamyshny** (2017) Impact of aeolian dry deposition of reactive iron minerals on sulfur cycling in sediments of the Gulf of Aqaba. *Front. Microbiol.* 8:1131.
16. **China, V., Levy, L., Liberzon, A., Elmaliach, T. & R. Holzman** (2017) Hydrodynamic regime determines the feeding success of larval fish through the modulation of strike kinematics. *Proc. R. Soc. B.* 284:20170235.
17. **Coates, C.J. & M. Wyman** (2017) A denitrifying community associated with a major, marine nitrogen fixer. *Environ. Micro.* 19:4978-4992.
18. **Cohen, S., Krueger, T. & M. Fine** (2017) Measuring coral calcification under ocean acidification: methodological considerations for the ⁴⁵Ca-uptake and total alkalinity anomaly technique. *PeerJ* 5:e3749.
19. **Dadon-Pilosof, A., Conley, K.R., Jacobi, Y., Haber, M., Lombard, F., Sutherland, K.R., Steindler, L., Tikochinski, Y., Richter, M., Glockner, F.O., Suzuki, M.T., West, N.J., Genin, A. & G. Yahel** (2017) Surface properties of SAR11 bacteria facilitate grazing avoidance. *Nature Microb.* 2:1608-1615.
20. **Dakhiya, Y., Hussein, D., Fridman, E., Kiflawi, M. & R.M. Green** (2017) Correlations between circadian rhythms and growth in challenging environments. *Plant Physiol.* 173:1724-1734.
21. **Erel, Y., Goldstein, S.L., Torfstein, A., Palchan, D., Ben Israel, M. & M. Stein** (2017) Isotopic tracers of dust and loess in the Levant. *In: Quaternary of the Levant: Environments, Climate Change, and Humans.* Enzel, Y. & O. Bar-Yosef (Eds.); Cambridge University Press; 2017. pp.493-492.
22. **Ezzat, L., Fine, M., Maguer, J-F., Grover, R. & C. Ferrier-Pages** (2017) Carbon and nitrogen acquisition in shallow and deep holobionts of the scleractinian coral *S. pistillata*. *Front. Mar. Sci.* 4:102.

23. **Fine, M., Tsadok, R., Meron, D., Cohen, S. & M. Milazzo** (2017) Environmental sensitivity of *Neogoniolithon brassica-florida* associated with vermetid reefs in the Mediterranean Sea. *ICES J. Mar. Sci.* 74:1074-1082.
24. **Galil, B.S., Gershwin, L-A., Zorea, M., Rahav, A., Rothman, S. B-S., Fine, M., Lubinevsky, H., Douek, J., Paz, G. & R. Rinkevich** (2017) *Cotylorhiza erythraea* Stiasny, 1920 (Scyphozoa: Rhizostomeae: Cepheidae), yet another erythraean jellyfish from the Mediterranean coast of Israel. *Mar. Biodiv.* 47:229-235.
25. **Garcia-Herrera, N., Ferse, S.C.A., Kunzmann, A. & A. Genin** (2017) Mutualistic damselfish induce higher photosynthetic rates in their host coral. *J. Exp. Biol.* 220:1803-1811.
26. **Granot, I., Shenkar, N. & J. Belmaker** (2017) Habitat niche breadth predicts invasiveness in solitary ascidians. *Ecol. Evol.* 7:7838-7847.
27. **Greenfield, D.W. & J.E. Randall** (2017) *Sueviota pyrios*, a new species of coral-reef dwarfgoby from the Red Sea (Teleostei: Gobiidae). *J. Ocean Sci. Found.* 25:8-13.
28. **Grottoli, A.G., Tchernov, D. & G. Winters** (2017) Physiological and biogeochemical responses of super-corals to thermal stress from the northern Gulf of Aqaba, Red Sea. *Front. Mar. Sci.* 4:215.
29. **Gutierrez-Rodriguez, A., Pillet, L., Biard, T., Said-Ahmad, W., Amrani, A., Simo, R. & F. Not** (2017) Dimethylated sulfur compounds in symbiotic protists: A potentially significant source for marine DMS(P). *Limnol. Oceanogr.* 62:1139-1154
30. **Gutner-Hoch, E., Waldman Ben-Asher, H., Yam, R., Shemesh, A. & O. Levy** (2017) Identifying genes and regulatory pathways associated with the scleractinian coral calcification process. *PeerJ* 5:e3590.
31. **Henehan, M.J., Evans, D., Shankle, M., Burke, J.E., Foster, G.L., Anagnostou, E., Chalk, T.B., Stewart, J.A., Alt, C.H.S., Durrant, J. & P.M. Hull** (2017) Size-dependent response of foraminiferal calcification to seawater carbonate chemistry. *Biogeosciences* 14:3287-3308
32. **Holzman, R. & C.D. Hulsey** (2017) Mechanical transgressive segregation and the rapid origin of trophic novelty. *Sci. Rep.* 7:40306.
33. **Horwitz, R., Hoogenboom, M.O. & M. Fine** (2017) Spatial competition dynamics between reef corals under ocean acidification. *Sci. Rep.* 7:40288.
34. **Jechow, A., Kollath, Z., Lerner, A., Hanel, A., Shashar, N., Holker, F. & C.C.M. Kyba** (2017) Measuring light pollution with fisheye lens imagery from a moving boat: A proof of concept. *Int. J. Sustain. Lighting* 20:15-25.
35. **Keren, R., Mayzel, B., Lavy, A. Polishchuk, I., Levy, D., Fakra, S.C., Pokroy, B. & M. Ilan** (2017) Sponge-associated bacteria mineralize arsenic and barium on intracellular vesicles. *Nat. Comm.* 8:14393.

36. **Kolodny, Y., Torfstein, A., Weiss-Sarusi, K., Zakon, Y. & L. Halicz** (2017) ^{238}U - ^{235}U - ^{234}U fractionation between tetravalent and hexavalent uranium in seafloor phosphorites. *Chem. Geol.* 451:1-8.
37. **Krueger, T., Horwitz, N., Bodin, J., Giovani, M-E., Escrig, S., Meibom, A. & M. Fine** (2017) Common reef-building coral in the northern Red Sea, resistant to elevated temperature and acidification. *R. Soc. Open Sci.* 7:170038.
38. **Linden, B. & B. Rinkevich** (2017) Elaborating an eco-engineering approach for stock enhanced sexually derived coral colonies. *J. Exp. Mar. Biol. Ecol.* 486:314-321.
39. **Maggioni, D., Montano, S., Arrigoni, R., Galli, P., Puce, S., Pica, D. & M.L. Berumen** (2017) Genetic diversity of the *Acropora*-associated hydrozoans: New insight from the Red Sea. *Mar. Biodiv.* 47:1045-1055.
40. **Manko, M.K., Slomska, A.W. & K. Jazdzewski** (2017) Siphonophora of the Gulf of Aqaba (Red Sea) and their associations with crustaceans. *Mar. Biol. Res.* 13:480-485.
41. **Maor-Landaw, K., Waldman Ben-Asher, H., Karako-Lampert, S., Salmon-Divon, M., Prada, F., Caroselli, E., Goffredo, S., Falini, G., Dubinsky, Z. & O. Levy** (2017) Mediterranean versus Red Sea corals facing climate change, a transcriptome analysis. *Sci. Rep.* 7:42405.
42. **Mass, T., Guiffre, A.J., Sun, C-Y., Stifler, C.A., Frazier, M.J., Neder, M., Tamura, N., Stan, C.V., Marcus, M.A. & P.U.P.A. Gilbert** (2017) Amorphous calcium carbonate particles form coral skeletons. *PNAS* 114:E7670-E7678.
43. **Mbije, N.E.J., Douek, J., Spanier, E. & B. Rinkevich** (2017) Population genetic parameters of the emerging corallivorous snail *Drupella cornus* in the northern Gulf of Eilat and Tanzanian coastlines based on mitochondrial GOI gene sequences. *Mar. Biodiv.* DOI: 0.1007/s12526-017-0768-2. [in press]
44. **McFadden, C., Haverkort-Yeh, R., Reynolds, A.M., Halasz, A., Quattrini, A.M., Forsman, Z.H., Benayahu, Y. & R.J. Toonen** (2017) Species boundaries in the absence of morphological, ecological or geographical differentiation in the Red Sea octocoral genus *Ovabunda* (*Alcyonacea: Xenidae*). *Mol. Phylogenet. Evol.* 112:174-184.
45. **Messika, I., Garrido, M., Kedem, H., China, V., Gavish, Y., Dong, Q., Fuqua, C., Clay, K. & H. Hawlena** (2017) From endosymbionts to host communities: factors determining the reproductive success of arthropod vectors. *Oecologia* 184:859-871.
46. **Milazzo, M., Fine, M., La Marca, E.C., Alessi, C. & R. Chemello** (2017) Drawing the line at neglected marine ecosystems: Ecology of vermetid reefs in a changing ocean. In: *Marine Animal Forests*. S. Rossi, et al (Eds.); Springer International Publishing. pp.345-368

47. **Miller, D.R., Pfreundt, U., Elifantz, E., Hess, W.R. & I. Berman-Frank** (2017) Microbial metatranscriptomes from the thermally stratified Gulf of Aqaba/Eilat during summer. *Mar. Genomics* 32:23-26.
48. **Moitinho-Silva, L., Nielsen, S., Amir, A., Gonzalez, A., Ackermann, G.L., Cerrano, C., Astudillo-Garcia, C., Easson, C., Sipkema, D., Liu, F., Steinert, G., Kotoulas, G., McCormack, G.P., Feng, G., Bell J.J., Vicente, J., Björk, J.R., Montoya, J.M., Olson, J.B., Reveillaud, J., Steindler, L., Pineda, M.C., Marra, M.V., Ilan, M., Taylor, M.W., Polymenakou, P., Erwin, P.M., Schupp, P.J., Simister, R.L., Knight, R., Thacker, R.W., Costa, R., Hill, R.T., Lopez-Legentil, S., Dailianis, T., Ravasi, T., Hentschel, U., Li, Z., Webster, N.S. & T. Thomas** (2017) The sponge microbiome project. *GigaScience* 6:1-7.
49. **Oliver, E., Nandakumar, N., Faibish, H., Gopas, J. & A. Kushmaro** (2017) Coral-associated bacterial extracts inhibit cellular NFκB pathway. *Cogent Environ. Sci.* 3:1292865.
50. **Oliver, D., Gajdzik, L., Parmentier, E. & B. Frederich** (2017) Evolution and diversity of ram-suction feeding in damselfishes (Pomacentridae). *Org. Divers Ecol.* 17:497-508.
51. **Orgel, J.P.R.O., Sella, I., Madhurapantula, R.S., Antipova, O., Mandelberg, Y., Kashman, Y., Benayahu, D. & Y. Benayahu** (2017) Molecular and ultrastructural studies of a fibrillar collagen from octocoral (Cnidaria). *J. Exp. Biol.* 220:3327-3335.
52. **Perry, O., Sapir, Y., Perry, G., ten Hove, H. & M. Fine** (2017) Substrate selection of Christmas tree worms (*Spirobranchus* spp.) in the Gulf of Eilat, Red Sea. *JMBA* 1-9.
53. **Philosof, A., Yutin, N., Flores-Uribe, J., Sharon, I., Koonin, E.V. & O. Beja** (2017) Novel abundant oceanic viruses of uncultured marine group II Euryarchaeota. *Cell. Biol.* 27:1362-1368.
54. **Pica, D., Bastari, A., Vaga, C.F., Gioia di Camillo, C., Montano, S. & S. Puce** (2017) Hydroid diversity of Eilat Bay with the description of a new *Zanclaea* species. *Mar. Biol. Res.* 13:469-479.
55. **Portman, M.E. & Y. Teff-Seker** (2017) Factors of success and failure for transboundary environmental cooperation: Projects in the Gulf of Aqaba. *J. Environ. Policy Plan.* 19:810-826.
56. **Rapuano, H., Brickner, I., Shlesinger, T., Meroz-Fine, E., Tamir, R. & Y. Loya** (2017) Reproductive strategies of the coral *Turbinaria reniformis* in the northern Gulf of Aqaba (Red Sea). *Sci. Rep.* 7:42670.
57. **Rarrek, A., Rehfeldt, S. & H. Klein** (2017) Evaluation of the performance of a simulation model for open algae ponds and investigation of the operating behavior of open algae ponds over a one-year period for different locations. *Chem. Eng. Res. Des.* 125:523-537.

58. **Rey-Sanchez, A.C., Bohrer, G., Morin, T.H., Shlomo, D., Mirfenderesgi, G., Gildor, H. & A. Genin** (2017) Evaporation and CO₂ fluxes in a coastal reef: An eddy covariance approach. *Ecosystem Health and Sustainability* 3:1392830.
59. **Raz-Bahat, M., Douek, J. Moiseeva, E., Peters, E.C. & B. Rinkevich** (2017) The digestive system of the stony coral *Stylophora pistillata*. *Cell Tissue Res.* 368:311-323.
60. **Rosenwasser, S., Frada, M.J., Pilzer, D., Rotkopf, R. & A. Vardi** (2017) Unmasking cellular response of a bloom-forming alga to virus infection by resolving expression profiling at a single-cell level. *bioRxiv* [in press].
61. **Rotini, A., Meija, A.Y., Costa, R., Migliore, L. & G. Winters** (2017) Ecophysiological plasticity and bacteriome shift in the seagrass *Halophila stipulacea* along a depth gradient in the Northern Red Sea. *Front. Plant. Sci.* 7:2015.
62. **Scata, G., Darmaillacq, A-S., Dickel, L., McCusker, S. & N. Shashar** (2017) Going up or sideways? Perception of space and obstacles negotiating by cuttlefish. *Front. Physiol.* 8:173
63. **Schnytzer, Y., Gimán, Y., Karplus, I. & Y. Achituv** (2017) Boxer crabs induce asexual reproduction of their associated sea anemones by splitting and intraspecific theft. *PeerJ* 5:e2954.
64. **Shenkar, N., Shmuel, Y. & D. Huchon** (2017) The invasive ascidian *Ciona robusta* recorded from a Red Sea marina. *Mar. Biodiv.* DOI: 10.1007/s12526-017-0699-y. [in press].
65. **Shlesinger, T., Shenkar, N. & Y. Loya** (2017) Gamete spawning of the ascidian *Phallusia nigra* in the Red Sea. *Bull. Mar. Sci.* 93:959-960
66. **Shmuel, Y. & N. Shenkar** (2017) Reproductive cycle and ecology of the tropical ascidian *Halocynthia spinosa* in the Red Sea. *Mar. Biol.* 164:147.
67. **Shoham, E. & 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.
68. **Smith, E.G., D'Angelo, C., Sharon, Y., Tchernov, D. & J. Wiedenmann** (2017) Acclimatization of symbiotic corals to mesophotic light environments through wavelength transformation by fluorescent protein pigments. *Proc. R. Soc. B.* 284:20170320.
69. **Shpigel, M., Guttman, L., Shauli, L., Odintsov, V., Ben-Ezra, D. & S. Harpaz** (2017) *Ulva lactuca* from an integrated multi-trophic aquaculture (IMTA) biofilter system as a protein supplement in gilthead seabream (*Sparus aurata*) diet. *Aquaculture* 481:112-118.

70. **Steiner, Z., Lazar, B., Torfstein, A. & J. Erez** (2017) Testing the utility of geochemical proxies for paleoproductivity in oxic sedimentary marine settings of the Gulf of Aqaba, Red Sea. *Chem. Geol.* 473:40-49.
71. **Stoddard, M.C., Yong, E.H., Akkaynak, D., Sheard, C., Tobias, J.A. & L. Lahadevan** (2017) Avian egg shape: Form, function, and evolution. *Science* 356:1249-1254.
72. **Sun, C-Y., Marcus, M.A., Frazier, M.J., Giuffre, A.J., Mass, T. & P.U.P.A. Gilbert** (2017) Spherulitic growth of coral skeletons and synthetic aragonite: Nature's three-dimensional printing. *ACS Nano* 11:6612-6622.
73. **Stein, M., Lazar, B., Torfstein, A. & S.L. Goldstein** (2017) Chronologies of late quaternary coral reefs and lake sediments from the Red Sea and Dead Sea Rift Valley. In: *Quaternary of the Levant: Environments, Climate Change, and Humans*. Enzel, Y. & O. Bar-Yosef (Eds.); Cambridge University Press; 2017. pp.75-82.
74. **Tamir, R., Lerner, A., Haspel, C., Dubinsky, Z. & D. Iluz** (2017) The spectral and spatial distribution of light pollution in the waters of the northern Gulf of Aqaba (Eilat). *Sci. Rep.* 7:42329.
75. **Torfstein, A.** (2017) The Amora Foundation, Dead Sea Basin. In: *Quaternary of the Levant: Environments, Climate Change, and Humans*. Enzel, Y. & O. Bar-Yosef (Eds.); Cambridge University Press; 2017. pp.91-98.
76. **Torfstein, A. & Y. Enzel** (2017) Dead Sea Lake level changes and Levant paleoclimate. In: *Quaternary of the Levant: Environments, Climate Change, and Humans*. Enzel, Y. & O. Bar-Yosef (Eds.); Cambridge University Press; 2017. pp.115-125.
77. **Torfstein, A., Teutsch, N., Tirosch, O., Shaked, Y., Rivlin, T., Zipori, A., Stein, M., Lazar, B. & Y. Erel** (2017) Chemical characterization of atmospheric dust from a weekly time series in the north Red Sea between 2006 and 2010. *Geochim. Cosmochim.* 211:373-393.
78. **Torfstein, A. & A. V. Turchyn** (2017) Rates and cycles of microbial sulfate reduction in the hyper-saline Dead Sea over the last 200 kyrs from sedimentary $\delta^{34}\text{S}$ and $\delta^{18}\text{O}(\text{SO}_4)$. *Front. Earth Sci.* 5:62.
79. **Tynyakov, J., Rousseau, M., Chen, M., Figus, O., Belhassen, Y. & N. Shashar** (2017) Artificial reef as a means of spreading diving pressure in a coral reef environment. *Ocean Coast. Manage.* 149:159-164.
80. **Van Rijn, I., Buka, Y., DeLong, J., Kiflawi, M. & J. Belmaker** (2017) Large but uneven reductions in fish size across species in relation to changing sea temperatures. *Glob. Change Biol.* 23:3667-3674.

81. **Yehudai, M., Lazar, B., Bar, N., Kiro, Y., Agnon, A., Shaked, Y. & M. Stein** (2017) U-Th dating of calcite corals from the Gulf of Aqaba. *Geochim. Cosmochim.* 198:285-298.
82. **Yaniv, K., Golberg, K., Kramarsky-Winter, E., Marks, R., Pushkarev, A., Beja, O. & A. Kushmaro** (2017) Functional marine metagenomic screening for anti-quorum sensing and antibiofilm activity. *Biofouling* 33:1-11.
83. **Zarubin, M., Lindemann, Y. & A. Genin** (2017) The dispersion-confinement mechanism: Phytoplankton dynamics and the spring bloom in a deeply-mixing subtropical sea. *Prog. Oceanogr.* 155:13-27.
84. **Zweifler, A., Akkaynak, D., Mass, T. & T. Treibitz** (2017) In situ analysis of coral recruits using fluorescence imaging. *Front. Mar. Sci.* 4:273.

2016

1. **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, M.S. & P.A. Nelson** (2016) Upgrading marine ecosystem restoration using ecological-social concepts. *BioScience* 66:156-163.
2. **Abelson, A., Nelson, P.A., Edgar, G.J., Shashar, N., Reed, D.C., Belmaker, J., Krause, G., Beck, M.W., Brokovich, E., France, R. & S.D. Gaines** (2016) Expanding marine protected areas to include degraded coral reefs. *Conserv. Biol.* 30:1182-1191.
3. **Alamaru, A., Brokovich, E. & Y. Loya** (2016) Four new species and three new records of benthic ctenophores (Family: Coeloplanidae) from the Red Sea. *Mar. Biodiv.* 46:261-279.
4. **Albright, R., Caldeira, L., Hoffelt, J., Kwiatkowski, Maclaren, J.K., Mason, B.M., Bebuchina, Y., Ninokawa, A., Pongratz, J., Ricke, K., Rivlin, T., Schneider, K., Sesboue, M., Shamberger, K., Silverman, J., Wolfe, K., Zhu, K. & K. Caldeira** (2016) Reversal of ocean acidification enhances net coral reef calcification. *Nature* 362:362–365.
5. **Anthes, N., Theobald, J., Gerlach, T., Meadows, M.G. & N.K. Michiels** (2016) Diversity and ecological correlates of red fluorescence in marine fishes. *Front. Ecol. Evol.* 4:126.
6. **Armoza-Zvuloni, R., Schneider, A. & Y. Shaked** (2016) Rapid hydrogen peroxide release during coral-bacteria interactions. *Front. Mar. Sci.* 3:124.
7. **Armoza-Zvuloni, R., Schneider, A., Sher, D. & Y. Shaked** (2016) Rapid hydrogen peroxide release from the coral *Stylophora pistillata* during feeding and in response to chemical and physical stimuli. *Sci. Rep.* 6:21000.
8. **Arotsker, L., Kramarsky-Winter, E., Ben-Dov, E. & A. Kushmaro** (2016) Microbial transcriptome profiling of black band disease in a Faviid coral during disease peak. *Dis. Aquat. Org.* 118:77-89.
9. **Asher, S., Niewerth, S., Koll, K. & U. Shavit** (2016) Vertical variations of coral reef drag forces. *J. Geophys. Res. Oceans* 5:2549-2563.
10. **Askhenazy, Y., Fredj, E., Gildor, H., Gong, G-C. & H-J. Lee** (2016) Current temporal asymmetry and the role of tides: Nan-Wan Bay vs. the Gulf of Elat. *Ocean Sci.* 12:733-742.
11. **Baranes, A., Fricke, R., Golani, D. & B. Appelbaum-Golani** (2016) Record of *Bodianus rubrisos* Gomon, 2006 from the northern Red Sea, previously misidentified as *B.leucosticticus* (non Bennett) or *B. trilineatus* (non Fowler) (Labridae). *Cybium* 40:281-286.

12. **Barkay, Z., Golombick, R., Gabay, Y. & Y. Benayahu** (2016) Droplet contact angle measurement on microstructures of octocoral sclerites – ESEM Image Analysis. *J. Chem. Engin.* 1:42-47.
13. **Beijbom, O., Treibitz, T., Kline, D.I., Eyal, G., Khen, A., Neal, B., Loya, Y., Mitchell, B.G. & D. Kriegman** (2016) Improving automated annotation of benthic survey images using wide-bade fluorescence. *Sci. Rep.* 6:23166.
14. **Borell, E.M., Pettay, D.T., Steinke, M., Warner, M. & M. Fine** (2016) Symbiosis-specific changes in dimethylsulphoniopropionate concentrations in *Stylophora pistillata* along a depth gradient. *Coral Reefs* 35:1383-1392.
15. **Britstein, M., Devescovi, G., Handley, K.M., Malk, A., Haber, M., Saurav, K., Teta, R., Costantino, V., Burgsdorf, I., Gilbert, J.A., Sher, N., Venture, V. & L. Steindler** (2016) A new N-acyl homoserine lactone synthase in an uncultured symbiont of the Red Sea sponge *Theonella swinhoe*. *Appl. Environ. Micro.* 82:1274-1285.
16. **Bronstein, O., Kroh, A. & Y. Loya** (2016) Reproduction of the long-spined sea urchin *Diadema setosum* in the Gulf of Aqaba - implications for the use of gonad-indexes. *Sci. Rep.* 6:29569.
17. **Caroselli, E., Ricci, F., Brambilla, V., Mattioli, G., Levy, O., Falini, G., Dubinsky, Z. & S. Goffredo** (2016) 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* 35:507-519.
18. **Cohen, I., Dubinsky, Z. & J. Erez** (2016) Light enhanced calcification in hermatypic corals: New insights from light spectral responses. *Front. Mar. Sci.* 2:122.
19. **Downs, C.A., Kramarsky-Winter, E., Segal, R., Fauth, R., Knutson, S., Bronstein, O., Ciner, F.R., Jeger, R., Lichtenfeld, Y., Woodley, C.M., Pennington, P., Cadenas, K., Kushmaro, A. & Y. Loya** (2016) Toxicopathological effects of the sunscreen UV filter, oxybenzone (benzophenone-3), on coral planulae and cultured primary cells and its environmental contamination in Hawaii and the U.S. Virgin Islands. *Arch. Environ. Contam. Toxicol.* 70:265-288.
20. **Einbinder, S., Gruber, D.F., Salomon, E., Liran, O., Keren, N. & D. Tchernov** (2016) Novel adaptive photosynthetic characteristics of mesophotic symbiotic microalgae within the reef-building coral, *Stylophora pistillata*. *Front. Mar. Sci.* 3:195.
21. **Evans, D., Wade, B.S., Henehan, M., Erez, J. & W. Muller** (2016) Revisiting carbonate chemistry controls on planktic foraminifera Mg/Ca: Implications for sea surface temperature and hydrology shifts over the paleocene-eocene thermal maximum and eocene-oligocene transition. *Clim. Past* 12:819-835.

22. **Eyal, G., Eyal-Shaham, L., Cohen, I., Tamir, R., Ben-Zvi, O., Sinniger, F. & Y. Loya** (2016) *Euphyllia paradivisa*, a successful mesophotic coral in the northern Gulf of Eilat/Aqaba, Red Sea. *Coral Reefs* 35:91-102.
23. **Eyal-Shaham, L., Eyal, G., Tamir, R. & Y. Loya** (2016) Reproduction, abundance and survivorship of two *Alveopora* spp. in the mesophotic reefs of Eilat, Red Sea. *Sci. Rep.* 6:20964.
24. **Eyal, G. & Y. Loya** (2016) Eilat, Red Sea, Israel. *In: Mesophotic Coral Ecosystems - A Lifeboat for Coral Reefs? United Nations Environmental Program, Kenya*; pp. 28-30.
25. **Fricke, R., D., Applebaum-Golani, B. & U. Zajonz** (2016) New record of the spiny pufferfish, *Tylerius spinosimmimus* (Regan, 1908), from Israel, Gulf of Aqaba, Red Sea (Actinoptery GII: Tetraodontiformes: Tetraodontidae). *Acta Ichthyol. Piscat.* 46:115-118.
26. **Fruchter, N., Eisenhauer, A., Dietzel, M., Fietzke, J., Bohm, F., Montagna, P., Stein, M., Lazar, B., Rodolfo-Metalpa, R. & J. Erez** (2016) ⁸⁸SR/⁸⁶SR fractionation in inorganic aragonite and in corals. *Geochim Cosmochim.* 178:268-280.
27. **Gabriel, D., Draisma, S.G.A., Sauvage, Schmidt, W.E., Schils, T., Lim, P-E., Harris, D.J. & S. Fredericq** (2016) Multilocus phylogeny reveals *Gibsmithia hawaiiensis* (Dumontiaceae, Rhodophyta) to be a species complex from the Indo-Pacific, with the proposal of *G. eilatensis* sp., nov. *Phytotaxa* 1:1-20.
28. **Goodman-Tchernov, B., Katz, T., Shaked, Y., Qupty, N., Kanari, M., Niemi, T. & A. Agnon** (2016) Offshore evidence for an undocumented tsunami event in the 'low risk' Gulf of Aqaba-Eilat, northern Red Sea. *PLoS One* 11:e0145802.
29. **Gruber, D.F., Loew, E.R., Deheyn, D.D., Akkaynak, D., Gaffney, J.P., Smith, W.L., W., Davis, Stern, J.H., Pieribone, V.A. & J.S. Sparks** (2016) Biofluorescence in catsharks (Scyliorhinidae): Fundamental description and relevance for elasmobranch visual ecology. *Sci. Rep.* 6:24751.
30. **Gur, D., Leshem, B., Farstey, V., Oron, D., Addadi, L. & S. Weiner** (2016) Light-induced color change in the sapphirinid copepods: Tunable photonic crystals. *Adv. Funct. Mater.* 26:1393-1399.
31. **Gutner-Hoch, E., Schneider, K., Stolarski, J., Domart-Coulon, I., Yam, R., Meibom, A., Shemesh, A. & O. Levy** (2016) Evidence for rhythmicity pacemaker in the calcification process of scleractinian coral. *Sci. Rep.* 6:20191.
32. **Hou, S., Pfreundt, U., Miller, D., Berman-Frank, I. & W.R. Hess** (2016) mdRNA-Seq analysis of marine microbial communities from the northern Red Sea. *Sci. Rep.* 6:35470.

33. **Howell, J., Goulet, T.L. & D. Goulet** (2016) Anemonefish musical chairs and the plight of the two-band anemonefish, *Amphiprion bicinctus*. *Environ. Biol. Fish.* 99:873-886.
34. **Hume, B.C.C., Voolstra, C.R., Arif, C., D'Angelo, C., Burt, J.A., Eyal, G., Loya, Y. & J. Wiedenmann** (2016) Ancestral genetic diversity associated with the rapid spread of stress-tolerant coral symbionts in response to Holocene climate change. *PNAS* 113:4416-4421.
35. **Iluz, D. & S. Abu-Ghosh** (2016) A novel photobioreactor creating fluctuating light from solar energy for a higher light-to-biomass conservation efficiency. *Energy Convers. Manage.* 126:767-773.
36. **Josef, N., Berenshtein, I., Rousseau, M., Scata, G., Fiorito, G. & N. Shashar** (2016) Size matters: Observed and modeled camouflage response of European cuttlefish (*Sepia officinalis*) to different substrate patch sizes during movement. *Front. Physiol.* 7:671.
37. **Keren, R., Lavy, A. & M. Ilan** (2016) Increasing the richness of culturable arsenic-tolerant bacteria from *Theonella swinhoei* by addition of sponge skeleton to the growth medium. *Microb. Ecol.* 71:873-886.
38. **Khalifa, G.M., Kirchenbuechler, D., Koifman, N., Kleinerman, O., Talmon, Y., Elbaum, M., Addadi, L., Weiner, S. & J. Erez** (2016) Biomineralization pathways in a foraminifer revealed using a novel correlative cryo-fluorescence-SEM-EDS technique. *J. Struct. Biol.* 196:155-163.
39. **Kiflawi, M., Mann, O. & M.G. Meekan** (2016) Heterogeneous 'proportionality constraints' - A challenge to Taylor's Power Law for temporal fluctuations in abundance. *J. Theoret. Biol.* 407:155-160.
40. **Koplovitz, G., Shmuel, Y. & N. Shenkar** (2016) Floating docks in tropical environments - a reservoir for the opportunistic ascidian *Herdmania momus*. *Manage. Biol. Inv.* 7:43-50.
41. **Kranzler, C., Kessler, N., Keren, N. & Y. Shaked** (2016) Enhanced ferrihydrite dissolution by a unicellular planktonic cyanobacterium: A biological contribution to particulate iron bioavailability. *Environ. Microbiol.* 18:5101-5111.
42. **Kumar, S., Bar-Shalom, R., Haber, M., Burgsdorf, I., Oliviero, G., Costantino, V., Morgenstern, D. & L. Steindler** (2016) In search of alternative antibiotic drugs: Quorum-quenching activity in sponges and their bacterial isolates. *Front. Microbiol.* 7:416.
43. **Kvitt, H., Rosenfeld, H. & D. Tchernov** (2016) The regulation of thermal stress induced apoptosis in corals reveals high similarities in gene expression and function to higher animals. *Sci. Rep.* 6:30359.

44. **Kwiatkowski, L., Albright, R., Hosfelt, J., Nabuchina, Y., Ninokawa, A., Rivlin, T., Sesboue, M., Wolf, K. & K. Caldeira** (2016) Interannual stability of organic to inorganic carbon production on a coral atoll. *Geophys. Res. Lett.* 43:3880-3888.
45. **Laverick, J.H., Andradi-Brown, D.A., Exton, D.A., Bongaerts, P., Bridge, T.C.L., Lesser, M.P., Pyle, R.L., Slattery, M., Wagner, D. & A.D. Rogers** (2016) To what extent do mesophotic coral ecosystems and shallow reefs share species of conservation interest? *Environ. Evid.* 5:16.
46. **Lavy, A., Keren, R., Yahel, G. & M. Ilan** (2016) Intermittent hypoxia and prolonged suboxia measured in situ in a marine sponge. *Front. Mar. Sci.* 3:263.
47. **Lecointe, A., Domart-Coulon, I., Paris, A. & A. Meibom** (2016) Cell proliferation and migration during early development of a symbiotic scleractinian coral. *Proc. R. Soc. B* 283:20160206.
48. **Lee, J.J., Cevasco, M., Morales, J., Billick, M., Fine, M. & O. Levy** (2016) Variation among the marginopora vertebralis collected from the Great Barrier Reef, Australia. *J. Foram. Res.* 46:201-219.
49. **Loya, Y., Eyal, G., Treibitz, T., Lesser, M.P. & R. Appeldoorn** (2016) Theme section on mesophotic coral ecosystems: Advances in knowledge and future perspectives. *Coral Reefs* 35:1-9.
50. **Mandelberg, Y., Benayahu, D. & Y. Benayahu** (2016) Octocoral Sarcophyton auritum Verseveldt & Benayahu, 1978: Microanatomy and presence of collagen fibers. *Biol. Bull.* 230:68-77.
51. **Mejia, A.Y., Rotini, A., Lacasella, F., Bookman, R., Thaller, M.C., Shem-Tov, R., Winters, G. & L. Migliore** (2016) Assessing the ecological status of seagrasses using morphology, biochemical descriptors and microbial community analyses. A study in *Halophila stipulacea* (Forsk.) Aschers meadows in the northern Red Sea. *Ecol. Indic.* 60:1150-1163.
52. **Miazza, M., Fine, M., La Marca, E.C., Alessi, C. & R. Chemello** (2016) Drawing the line at neglected marine ecosystems: Ecology of vermetid reefs in a changing ocean. *In: Marine Animal Forests.* pp.1-23.
53. **Mullen, A.D., Treibitz, T., Roberts, P.L.D., Kelly, E.L.A., Horwitz, R. & J.S. Jaffe** (2016) Underwater microscopy for in situ studies of benthic ecosystems. *Nature Comm.* 7:12093
54. **Muller, E.M., Fine, M. & K.B. Ritchie** (2016) The stable microbiome of inter and sub-tidal anemone species under increasing pCO₂. *Sci. Rep.* 6:37837.
55. **Oren, A.** (2016) Probing saltern brines with an oxygen electrode: What can we learn about the community metabolism in hypersaline systems? *Life* 6:23.

56. **Oren, A., Abu-Ghosh, S., Argov, T., Kara-Ivanov, E., Shitrit, D., Volpert, A. & R. Horwitz** (2016) Expression and functioning of retinal-based proton pumps in a saltern crystallizer brine. *Extremophiles* 20:69-77.
57. **Pekkan, K., Chang, B., Uslu, F., Mani, K., Chen, C-Y. & R. Holzman** (2016) Characterization of zebrafish larvae suction feeding flow using uPIV and optical coherence tomography. *Exp. Fluids* 57:112.
58. **Ram-Mohan, M., Oren, A. & R.T. Papke** (2016) Analysis of the bacteriorhodopsin-producing haloarchaea reveals a core community that is stable over time in the salt crystallizers of Eilat, Israel. *Extremophiles* 20:747-757.
59. **Schmidt, C., Morard, R., Prazeres, M., Barak, H. & M. Kucera** (2016) Retention of high thermal tolerance in the invasive foraminifera *Amphistegina lobifera* from the Eastern Mediterranean and the Gulf of Aqaba. *Mar. Biol.* 163:228.
60. **Schoffman, H., Lis, H., Shaked, Y. & N. Keren** (2016) Iron-nutrient interactions within phytoplankton. *Front. Plant Sci.* 7:1223.
61. **Seveso, D., Montano, S., Pica, D., Maggioni, D., Galli, P., Allevi, V., Bastari, A. & S. Puce** (2016) Pteroclava krempfi-octocoral symbiosis: New information from the Indian Ocean and the Red Sea. *Mar. Biodiv.* 46:483-487.
62. **Shamur, E., Zilka, M., Tassner, T., China, V., Liberzon, A. & R. Holzman** (2016) Automated detection of feeding strikes by larval fish using continuous high-speed digital video: A novel method to extract quantitative data from fast, sparse kinematic events. *J. Exp. Biol.* 219:1608-1617.
63. **Shenkar, N., Koplovitz, Dray, L., Gissi, C. & D. Huchon** (2016) Back to solitude: Solving the phylogenetic position of the Dazonidae using molecular and developmental characters. *Mol. Phylogenet. Evol.* 100:51-56.
64. **Shlesinger, T. & Y. Loya** (2016) Recruitment, mortality, and resilience potential of scleractinian corals at Eilat, Red Sea. *Coral Reefs* 35:1357-1368.
65. **Song, Y., Kaster, A.K., Vollmers, J., Song, Y., Davison, P.A., Frentrup., M., Preston, G.M., Thompson, I.P., Murrell, J.C., Yin, H., Hunter, C.N. & W.E. Huang** (2016) Single-cell genomics based on Raman sorting reveals novel carotenoid-containing bacteria in the Red Sea. *Micro. Biotech.* 10:125-137.
66. **Steiner, Z., Lazar, B., Levi, S., Tsroya, S., Pelled, Omer, Bookman, R. & J. Erez** (2016) The effect of bioturbation in pelagic sediments: Lessons from radioactive tracers and planktonic foraminifera in the Gulf of Aqaba, Red Sea. *Geochim. Cosmo. Acta* 194:139-152.
67. **Stolarski, J., Bosellini, F.R., Wallace, C.C., Gothmann, A.M., Mazur, M., Domart-Coulon, I., Gutner-Hoch, E., Neuser, R.D., Levy, O., Shemesh, A. & A. Meibom** (2016) A unique coral biomineralization pattern has resisted 40 million years of major ocean chemistry change. *Sci. Rep.* 6:27579.

68. **van Ofwegen, L.P., McFadden, C.S. & Y. Benayahu** (2016) *Sinularia polydactyla* (Ehrenberg, 1834) (Cnidaria, Octocorallia) re-examined, with description of a new species. *ZooKeys* 581:71-126.
69. **Winters, G., Edelist, D., Shem-Tov, R., Beer, S. & G. Rilov** (2016) A low cost field-survey method for mapping seagrasses and their potential threats: An example from the northern Gulf of Aqaba, Red Sea. *Aquat. Conserv. Mar. Freshw. Ecosyst.* 27:324-339
70. **Wurgaft, E., Steiner, Z., Luz, B. & B. Lazar** (2016) Evidence for inorganic precipitation of CaCO₃ on suspended solids in the open water of the Red Sea. *Mar. Chem.* 186:145-155.
71. **Zahava, B., Golombick, R., Gabay, Y. & Y. Benayahu** (2016) Droplet contact angle measurement on microstructures of octocoral sclerites-ESEM image analysis. *J. Chem. Chem. Eng.* 1:42-47.
72. **Zarubin, M., Lindemann, Y., Brunner, O., Fields, D.M., Browman, H.I. & A. Genin** (2016) The effect of hydrostatic pressure on grazing in three calanoid copepods. *J. Plankton. Res.* 39:131-138.
73. **Zvuloni, A. & J. Belmaker** (2016) Estimating ecological count-based measures from the point-intercept method. *Mar. Ecol. Prog. Ser.* 556:123-130.

2015

1. **Abu-Ghosh, A., Fixler, D., Dubinsky, Z. & D. Iluz.** (2015) Continuous background light significantly increases flashing-light enhancement of photosynthesis and growth of microalgae. *Bioresour. Technol.* 187:144-148.
2. **Afargan, H. & H. Gildor** (2015) The role of the wind in the formation of coherent eddies in the Gulf of Eilat/Aqaba. *J. Mar. Syst.* 142:75-95.
3. **Allen, G.R.** (2015) Review of Indo-Pacific coral reef fish systematics: 1980 to 2014. *Ichthyol. Res.* 62:2-8.
4. **Apotheloz-Perret, L. & J. Pawlowski** (2015) Molecular phylogeny and morphology of *Leannia veloxifera* n.gen. et sp. unveils a new lineage of monothalamous foraminifera. *J. Euk. Microbiol.* 62:353-361.
5. **Arotsker, L., Kramarsky-Winter, E., Ben-Dov, E., Siboni, N. & A. Kushmaro** (2015) Changes in the bacterial community associated with black band disease in a Red Sea coral, *Favia* sp., in relation to disease phases. *Dis. Aquat. Org.* 116:47-58.
6. **Ashkenazy, Y., Gildor, H. & G. Bel** (2015) The effect of stochastic wind on the infinite depth Ekman layer model. *EPL* 111:39001.
7. **Barth, P., Berenshtein, I., Besson, M., Roux, N., Parmentier, E., Banaigs, B. & D. Lecchin** (2015) From the ocean to a reef habitat: How do the larvae of coral reef fishes find their way home. *Vie et Milieu-Life & Environ.* 95:91-100.
8. **Ben-Zvi, O., Eyal, G. & Y. Loya** (2015) Light-dependent fluorescence in the coral *Galaxea fascicularis*. *Hydrobiologia* 759:15-26.
9. **Benayahu, Y., Levy, O. & T. Lotan** (2015) Preface. *Hydrobiologia* 759:1-2.
10. **Berenshtein, I., Reuben, Y. & A. Genin** (2015) Effect of oxygen on coral fanning by mutualistic fish. *Mar. Ecol.* 36:1171-1175.
11. **Brekhman, V., Malik, A., Haas, B., Sher, N. & T. Lotan** (2015) Transcriptome profiling of the dynamic life cycle of the scyphozoan jellyfish *Aurelia aurita*. *BMC Genomics* 16:74.
12. **Bronstein, O. & Y. Loya** (2015) Photoperiod, temperature, and food availability as drivers of the annual reproductive cycle of the sea urchin *Echinometra* sp. from the Gulf of Aqaba (Red Sea). *Coral Reefs* 34:275-289.
13. **Burgsdorf, I., Slaby, B.M., Handley, K.M., Haber, M., Blom, J., Marshall, C.W., Gilbert, J.A., Hentschel, U. & L. Steindler** (2015) Lifestyle evolution in cyanobacterial symbionts of sponges. *MBio* 6:e00391-15.

14. **Cohen, I. & Z. Dubinsky** (2015) Long term photoacclimation responses of the coral *Stylophora pistillata* to reciprocal deep to shallow transplantation: Photosynthesis and calcification. *Front. Mar. Sci.* 2:45.
15. **Day, S.W., Higham, T.E., Hozman, R. & S.V. Wassenbergh** (2015) Morphology, kinematics, and dynamics: The mechanics of suction feeding in fishes. *Int. Comp. Biol.* 55:21-35.
16. **Dekel-Bird, N.P., Sabehi, G., Mosevitzky, B. & D. Lindell** (2015) Host-dependent differences in abundance composition and host range of cyanophages from the Red Sea. *Environ. Micro.* 17:1286-1299.
17. **Evans, D., Erez, J., Oron, S. & W. Muller** (2015) Mg/Ca-temperature and seawater-test chemistry relationships in the shallow-dwelling large benthic foraminifera *Operculina ammonoides*. *Geochim. Cosmochim.* 148:325-342.
18. **Eyal, G., Wiedenmann, G., Grinblat, M., D'Angelo, C., Kramarsky-Winter, E., Treibitz, T., Ben-Zvi, O., Shaked, Y., Smith, T.B., Harii, S., Denis, V., Noyes, T., Tamir, R. & Y. Loya** (2015) Spectral diversity and regulation of coral fluorescence in a mesophotic reef habitat in the Red Sea. *PLoS One* 10:e0128697.
19. **Grossowicz, M. & Y. Benayahu** (2015) Occurrence and survivorship of azooxanthellate octocorals reflect recruitment preferences and depth distribution. *Hydrobiologia* 759:85-93.
20. **Gur, D., Leshem, B., Pierantoni, M., Farstey, V., Oron, D., Weiner, S. & L. Addadi** (2015) Structural basis for the brilliant colors of the sapphirinid copepods. *J. Am. Chem. Soc.* 137:8408-8411.
21. **Halasz, A., Reynolds, A.M., McFadden, C.S., Toonen, R.J. & Y. Benayahu** (2015) Could polyp pulsation be the key to species boundaries in the genus *Ovabunda* (Octocorallia: Alcyonacea: Xeniidae)? *Hydrobiologia* 759:95-107.
22. **Hall, E.R., DeGroot, B.C. & M. Fine** (2015) Lesion recovery of two scleractinian corals under low pH conditions: Implications for restoration efforts. *Mar. Poll. Bull.* 100:321-326.
23. **Henehan, M.J., Foster, G.L., Rae, J.W.B., Prentice, K.C., Erez, J., Bostock, H.C., Marshall, B.J. & P.A. Wilson** (2015) Evaluating the utility of B/Ca ratios in planktic foraminifera as a proxy for the carbonate system: A case study of *Globigerinoides ruber*. *Geochem. Geophys. Geosyst.* 16:1052-1069.
24. **Holzman, R., China, V., Yaniv, S. & M. Zilka** (2015) Hydrodynamic constraints of suction feeding in low Reynolds Numbers, and the critical period of larval fishes. *Int. Comp. Biol.* 55:48-61.
25. **Horwitz, R., Borell, E.M., Yam, R., Shemesh, A. & M. Fine** (2015) Natural high pCO₂ increases autotrophy in *Anemonia viridis* (Anthozoa) as revealed from stable isotope (C, N) analysis. *Sci. Rep.* 5:8779.

26. **Josef, N., Berenshtein, I., Fiorito, G., Sykes, A. & N. Shashar** (2015) Camouflage during movement in the European cuttlefish (*Sepia officinalis*). *J. Exp. Biol.* 218:3391-3398.
27. **Katz, T., Ginat, H., Eyal, G., Steiner, Z., Braun, Y., Shalev, S. & B.N. Goodman-Tchernov** (2015) Desert flash floods from hyperpycnal flows in the coral-rich Gulf of Aqaba, Red Sea. *Earth Planet. Sci. Lett.* 417:87-98.
28. **Keren, R., Lavy, A., Mayzel, B. & M. Ilan** (2015) Culturable associated-bacteria of the sponge *Theonella swinhoei* show tolerance to high arsenic concentrations. *Front. Microbiol.* 6:154.
29. **Kline, D.I., Teneva, L., Hauri, C., Schneider, K., Miard, T., Chai, A., Marker, M., Dunbar, R., Caldeira, K., Lazar, B., Rivlin, T., Mitchell, B.G., Dove S. & O. Hoegh-Guldberg** (2015) Six month in situ high-resolution carbonate chemistry and temperature study on a coral reef flat reveals asynchronous pH and temperature anomalies. *PloS One* 10:e0127648.
30. **Koplovitz, G., Hirose, E., Hirose, M. & N. Shenkar** (2015) Being green in the Red Sea - the photosymbiotic ascidian *Diplosoma simile* (Ascidiacea: Didemnidae) in the Gulf of Aqaba. *Syst. Biodiv.* 13:131-139.
31. **Kvitt, H., Kramarsky-Winter, E., Maor-Landaw, K., Zandbank, K., Kushmaro, A., Rosenfeld, H., Fine, M. & D. Tchernov** (2015) Breakdown of coral colonial form under reduced pH conditions is initiated in polyps and mediated through apoptosis. *PNAS* 112:2082-2086.
32. **Lavy, A., Eyal, G., Neal, B., Keren, R., Loya Y. & M. Ilan** (2015) A quick, easy and non-intrusive method for underwater volume and surface area evaluation of benthic organisms by 3D computer modeling. *Methods Ecol. Evol.* 6:521-531.
33. **Lis, H., Kranzler, C., Keren, N. & Y. Shaked** (2015) A comparative study of iron uptake rates and mechanisms amongst marine and fresh water cyanobacteria: Prevalence of reductive iron uptake. *Life* 5:841-860.
34. **Lis, H., Shaked, Y., Kranzler, C., Keren, N. & F.M.M. Morel** (2015) Iron bioavailability to phytoplankton: an empirical approach. *ISME J.* 9:1003-1013.
35. **Lott, S.C., Voß, B., Hess, W.R. & C. Steglich** (2015) CoVennTree: A new method for the comparative analysis of large datasets. *Front. Genetics* 6:43.
36. **Mackey, K.R.M., Chien, C-T., Post, A.F., Saito, M.A. & A. Paytan** (2015) Rapid and gradual modes of aerosol trace metal dissolution in seawater. *Front. Microbiol.* 5:791.
37. **Mandelberg-Aharon, Y. & Y. Benayahu** (2015) Reproductive features of the Red Sea octocoral *Sarcophyton auritum* Verseveldt & Benayahu, 1978 are uniform within generic boundaries across wide biogeographical regions. *Hydrobiologia* 759:119-132.

38. **Merkado, G., Titelboim, D., Hyams-Kaphzan, O., Holzmann, M., Pawlowski, J., Almogi-Labin, A., Abdu, U., Herut, B. & S. Abramovich** (2015) Isotrophic microscale mechanical properties of coral skeletons. *PLoS One* 10:0142263.
39. **Merkado, G., Titelboim, D., Hyams, Kaphzan, O., Holzmann, M., Pawlowski, J., Almogi-Labin, A., Abdu, U., Herut, B. & S. Abramovich** (2015) Molecular phylogeny and ecology of *Textularia agglutinans* d'Orbigny from the Mediterranean Coast of Israel: A case of a successful new incumbent. *PLoS One* 10:e0142263.
40. **Rahav, E., Herut, B., Mulholland, M.R., Belkin, N., Elifantz, H. & I. Berman-Frank** (2015) Heterotrophic and autotrophic contribution to dinitrogen fixation in the Gulf of Aqaba. *Mar. Ecol. Prog. Ser.* 522:67-77.
41. **Roterman, Y.R., Benayahu, Y., Reshef, L. & U. Gophna** (2015) The gill microbiota of invasive and indigenous *Spondylus* oysters from the Mediterranean Sea and northern Red Sea. *Environ. Micro. Repts.* 7:860-867.
42. **Shabtay, A., Rilov, G. & Y. Benayahu** (2015) The Indo-Pacific oyster *Spondylus spinosus* Schreibers, 1793 in the Eastern Mediterranean Sea: Reproductive features. *Molluscan Res.* 35:206-212.
43. **Shenkar, N. & T. Gordon** (2015) Gut-spilling in chordates: Evisceration in the tropical ascidian *Polycarpa mytiligera*. *Sci. Rep.* 5:9614.
44. **Steglich, C., Stazic, D., Lott, S.C., Voigt, K., Greengrass, E., Lindell, D. & W.R. Hess** (2015) Dataset for metatranscriptome analysis of *Prochlorococcus*-rich marine picoplankton communities in the Gulf of Aqaba, Red Sea. *Mar. Genomics* 19:5-7.
45. **Torfstein, A., Goldstein, S.L., Kushnir, Enzel, Y., Haug, G. & M. Stein** (2015) Dead Sea drawdown and monsoonal impacts in the Levant during the last interglacial. *Earth Planet. Sci. Lett.* 412:235-244.
46. **Torfstein, A., Goldstein, S.L., Kushnir, Y., Enzel, Y., Haug, G. & M. Stein** (2015) Response to comment on: Dead Sea drawdown and monsoonal impacts in the Levant during the last interglacial. *Earth Planet. Sci. Lett.* 427:306-308.
47. **True, A.C., Webster, D.R., Weissburg, M.J., Yen, J. & A. Genin** (2015) Patchiness and depth-keeping of copepods in response to simulated frontal flows. *Mar. Ecol. Prog. Ser.* 539:65-76.
48. **Vigier, N., Rollion-Bard, C., Levenson, Y. & J. Erez** (2015) Lithium isotopes in foraminifera shells as a novel proxy for the ocean dissolved inorganic carbon (DIC). *C.R. Geoscience* 347:43-51.
49. **Wickham, S.A., Claessens, M. & A.F. Post** (2015) Ciliates, microbes and nutrients: Interactions in the seasonally mixed Gulf of Aqaba. *J. Plank. Res.* 37:258-271.

50. **Zvuloni, A., Artzy-Randrup, Y., Katriel, G., Loya, Y. & L. Stone (2015)**
Modeling the impact of white-plague coral disease in climate change scenarios.
PLoS Comp. Biol. 11:e1004151.

2014

1. **Allison, N., Cohen, I., Finch, A.A., Erez, J., Tudhope, A.W. & Edinburgh Ion Microphobe Facility** (2014) Corals concentrate dissolved inorganic carbon to facilitate calcification. *Nat. Commun.* 5:5741.
2. **Armoza-Zvuloni, R., Kramarsky-Winter, E., Loya, Y., Schlesinger, A. & H. Rosenfeld** (2014) Trioecy, a unique breeding strategy in the sea anemone *Aiptasia diaphana* and its association with sex steroids. *Biol. Reprod.* 90:122
3. **Armoza-Zvuloni, R. & Y. Shaked** (2014) Release of hydrogen peroxide and antioxidants by the coral *Stylophora pistillata* to its external milieu. *Biogeosci.* 11:4587-4598.
4. **Baar, Y., Rosen, J. & N. Shashar** (2014) Circular polarization of transmitted light by Sapphirinidae copepods. *PLoS One* 9:e86131.
5. **Beer, S., Bjork, M. & J. Beardall** (2014) Photosynthesis in the Marine Environment. Wiley-Blackwell, Oxford, UK.
6. **Berenshtein, I., Kiflawi, M., Shashar, N., Wieler, U., Agiv, H. & C.B. Paris** (2014) Polarized light sensitivity and orientation in coral reef fish post-larvae. *PLoS One* 9:e88468.
7. **Biton, E. & H. Gildor** (2014) Energy budget of a small convectively driven marginal sea: The Gulf of Eilat/Aqaba (northern Red Sea). *J. Phys. Oceanogr.* 44:1954-1972.
8. **Borell, E.M., Steinke, M., Horwitz, R. & M. Fine** (2014) Increasing pCO₂ correlates with low concentrations of intracellular dimethylsulfoniopropionate in the sea anemone *Anemonia viridis*. *Ecol. Evol.* 4:441-449.
9. **Carlson, D.F., Fredj, E. & H. Gildor** (2014) The annual cycle of vertical mixing and restratification in the Northern Gulf of Eilat/Aqaba (Red Sea) based on high temporal and vertical resolution observations. *Deep Sea Res. I* 84:1-17.
10. **China, V. & R. Holzman** (2014) Hydrodynamic starvation in first-feeding larval fishes. *PNAS* 111:8083-8088.
11. **Culka, A., Osterrothova, K., Hutchinson, I., Ingley, R., McHugh, M., Oren, A., Edwards, H.G.M. & J. Jehlicka** (2014) Detection of pigments of halophilic endoliths from gypsum: Raman portable instrument and European Space Agency's prototype analysis. *Phil. Trans. Royal Soc. A.* 372:20140203.
12. **Decelle, J., Romac, S., Sasaki, E., Not, F. & F. Mahe** (2014) Intracellular diversity of the V4 and V9 regions of the 18S rRNA in marine protists (Radiolarians) assessed by high-throughput sequencing. *PLoS One* 9:e104297.

13. **Domart-Coulon, I., Stolarski, J., Brahmi, C., Gutner-Hoch, E., Janiszewska, J., Shemesh, A. & A. Meibom** (2014) Simultaneous extension of both basic microstructural components in scleractinian coral skeleton during night and daytime, visualized by *in situ* 86SR pulse labeling. *J. Struct. Biol.* 185:79-88.
14. **Downs, C.A., Kramarsky-Winter, E., Fauth, J.E., Segal, R., Bronstein, O., Jeger, R., Lichtenfeld, Y., Woodley, C.M., Pennington, P., Kushmaro, A. & Y. Loya** (2014) Toxicological effects of the sunscreen UV filter, benzophenone-2, on planulae and in vitro cells of the coral, *Stylophora pistillata*. *Ecotoxicol.* 23:175-191.
15. **Frada, M.J., Schatz, D., Farstey, V., Ossolinski, J.E., Sabanay, H., Ben-Dor, Koren, I. & A. Vardi** (2014) Zooplankton may serve as transmission vectors for viruses inflecting algal blooms in the ocean. *Curr. Biol.* 24:1-6.
16. **Fuchs, I., Aluma, Y., Ilan, M. & Y. Mastai** (2014) Induced crystallization of amorphous biosilica to cristobalite by silicatein. *J. Phys. Chem.* B2014:2104-2111.
17. **Gabay, Y., Fine, M., Barkay, Z. & Y. Benayahu** (2014) Octocoral tissue provides protection from declining oceanic pH. *PLoS One* 9:e91553.
18. **Grover, R., Ferrier-Pages, C., Maguer, J.F., Ezzat, L. & M. Fine** (2014) Nitrogen fixation in the mucus of Red Sea corals. *J. Exp. Biol.* 217:3962-3963.
19. **Halasz, A., McFadden, C.S., Aharonovich, D., Toonen, R. & Y. Benayahu** (2014) A revision of the octocoral genus *Ovabunda* Alderslade, 2001 (Anthozoa, Octocorallia, Xeniidae). *Zookeys* 373:1-41.
20. **Hazan, Y., Wangensteen, O.S. & M. Fine** (2014) Tough as a rock-boring urchin: adult *Echinometra* sp. EE from the Red Sea show high resistance to ocean acidification over long-term exposures. *Mar. Biol.* 161:2531-2545.
21. **Hibino, Y., Todd, P.A., Yang, S-y., Benayahu, Y. & J.D. Reimer** (2014) Molecular and morphological evidence for conspecificity of two common Indo-Pacific species of *Palythoa* (Cnidaria: Anthozoa). *Hydrobiol.* 733:31-43.
22. **Holzman, R., Perkok-Finkel, S. & G. Zilman** (2014) Mexican blind cavefish use mouth suction to detect obstacles. *J. Exp. Biol.* 217:1955-1962.
23. **Horwitz, R., Borell, E.M., Fine, M. & Y. Shaked** (2014) Trace element profiles of the sea anemone *Anemonia viridis* living nearby a natural CO₂ vent. *PeerJ* 2:e538.
24. **Horwitz, R. & M. Fine** (2014) High CO₂ detrimentally affects tissue regeneration of Red Sea corals. *Coral Reefs* 33:819-829.
25. **Jehlicka, J., Edwards, H.G.M., Osterrothova, K., Novotna, J., Nedbalova, L., Kopecky, J., Nemec, I. & A. Oren** (2014) Potential and limits of Raman

spectroscopy for carotenoid detection in microorganisms: implications for astrobiology. *Phil. Trans. Roy. Soc. A* 372:20140199.

26. **Josef, N., Mann, O., Sykes, V., Fiorito, G., Reis, J., Maccusker, S. & N. Shashar** (2014) Depth perception: cuttlefish (*Sepia officinalis*) respond to visual texture density gradients. *Anim. Cogn.* 17:1393-1400.
27. **Kramarsky-Winter, E., Arotsker, L., Rasoulouniriana, D., Siboni, N., Loya, Y. & A. Kushmaro** (2014) The possible role of cyanobacterial filaments in coral black band disease pathology. *Microb. Ecol.* 67:177-185.
28. **Kranzler, C., Lis, H., Finkel, O.M., Schmetterer, G., Shaked, Y. & N. Keren** (2014) Coordinated transporter activity shapes high-affinity iron acquisition in cyanobacteria. *ISME J.* 8:409-417.
29. **Laiolo, L., Barausse, A., Dubinsky, Z., Palmeri, L., Goffredo, S., Kamenir, Y., Al-Najjar, T. & D. Iluz** (2014) Phytoplankton dynamics in the Gulf of Aqaba (Eilat, Red Sea): A simulation study of mariculture effects. *Mar. Poll. Bull.* 86:481-493.
30. **Lavy, A., Keren R., Haber, M., Schwartz, I. & M. Ilan** (2014) Implementing sponge physiological and genomic information to enhance the diversity of its culturable associated bacteria. *FEMS Microbiol. Ecol.* 87:486-502.
31. **Levy, K., Lerner, A. & N. Shashar** (2014) Mate choice and body pattern variations in the crown butterfly fish *Chaetodon paucifasciatus* (Chaetodontidae). *Biol. Open* 3:1245-1251.
32. **Loya, Y., Genin, A., el-Zibdeh, M., Naumann, M.S. & C. Wild** (2014) Reviewing the status of coral reef ecology of the Red Sea: Key topics and relevant research. *Coral Reefs* 33:1179-1180.
33. **Mann, O. & M. Kiflawi** (2014) Social foraging with partial (public) information. *J. Theoret. Biol.* 359:112-119.
34. **Maor-Landaw, K., Karako-Lampert, S., Ben-Asher, H.B., Goffredo, S., Falini, G., Dubinsky, Z. & O. Levy** (2014) Gene expression profiles during short-term heat stress in the Red Sea coral *Stylophora pistillata*. *Glob. Change Biol.* 20:3026-3035.
35. **Mayzel, B., Aizenberg, J. & M. Ilan** (2014) The elemental composition of demospongiae from the Red Sea, Gulf of Aqaba. *PLoS One* 9:e95775.
36. **Mayzel, B., Haber, M. & M. Ilan** (2014) Chemical defense against fouling in the solitary ascidian *Phallusia nigra*. *Biol. Bull.* 227:232-241.
37. **Milazza, M., Rodolfo-Metalpa, R., Chan, V.B.S., Fine, M., Alessi, C., Thiyagarajan, V., Hall-Spencer, J.M. & R. Chemello** (2014) Ocean acidification impairs vermetid reef recruitment. *Sci. Rep.* 4:4189.

38. **Neugebauer, I., Brauer, A., Schwab, M.J., Waldmann, N.D., Enzel, Y., Kitagawa, H., Torfstein, A., Frank, U., Dulski, P., Agnon, A., Ariztegue, D., Ben-Avraham, Z., Goldstein, S.L., Stein, M. & DSDDP Scientific Party** (2014) Lithology of the long sediment record recovered from the ICDP Dead Sea Deep Drilling Project (DSDDP). *Quat. Sci. Rev.* 102:149-165.
39. **Nir, O., Gruber, D.F., Shemesh, E., Glasser, E. & D. Tchernov** (2014) Seasonal mesophotic coral bleaching of *Stylophora pistillata* in the Northern Red Sea. *PLoS One* 9:e84968.
40. **Oren, A.** (2014) The ecology of *Dunaliella* in high-salt environments. *J. Biol. Res.* 21:23
41. **Oron, S., Angel, D., Goodman-Tchernov, B., Merkado, G., Kiflawi, M. & S. Abramovich** (2014) Benthic foraminiferal response to the removal of aquaculture fish cages in the Gulf of Aqaba-Eilat, Red Sea. *Mar. Micropaleontol.* 107:8-17.
42. **Perkol-Finkel, S. & I. Sella** (2014) Ecologically active concrete for coastal and marine infrastructure: Innovative matrices and designs. *From Sea to Shore – Meeting the Challenges of the Sea* 1:1139-1149.
43. **Pfreundt, U., Miller, D., Adusumilli, L., Stambler, N., Berman-Frank, I. & W.R. Hess** (2014) Depth dependent metatranscriptomes of the marine pico-/nanoplanktonic communities in the Gulf of Aqaba/Eilat during seasonal deep mixing. *Mar. Genomics* 18:93-95.
44. **Polak, O., Polak, T. & N. Shashar** (2014) Effects of habitat relocation on fish community structure - a case study. *Env. Biol. Fish* 97:1335-1345.
45. **Rodolfo-Metalpa, R., Hoogenboom, M.O., Rottier, C., Ramos-Espla, A., Baker, A.C., Fine, M. & C. Ferrier-Pages** (2014) Thermally tolerant corals have limited capacity to acclimatize to future warming. *Glob. Change Biol.* 20:3036-3049.
46. **Rotem, N., Sestieri, E., Hounsgaard, J. & Y. Yarom** (2014) Excitatory and inhibitory synaptic mechanisms at the first stage of integration in the electroreception system of the shark. *Front. Cell. Neurosci.* 8:72
47. **Shabtay, A., Tikochinski, Y., Benayahu, Y. & G. Rilov** (2014) Preliminary data on the genetic structure of a highly successful invading population of oyster suggesting its establishment dynamics in the Levant. *Mar. Biol. Res.* 10:407-415.
48. **Silverman, J., Schneider, K., Kline, D.I., Rivlin, T., Rivlin, A., Hamylton, S., Lazar, B., Erez, J. & K. Caldeira** (2014) Community calcification in Lizard Island, Great Barrier Reef: A 33-year perspective. *Geochim. Cosmochim.* 144:72-81.
49. **Steiner, Z., Erez, J., Shemesh, A., Yam, R., Katz, A. & B. Lazar** (2014) Basin-scale estimates of pelagic and coral reef calcification in the Red Sea and Western Indian Ocean. *Proc. Nat. Acad. Sci.* 46:16303-16308.

50. **Yaniv, S., Elad, D. & R. Holzman** (2014) Suction feeding across fish life stages: flow dynamics from larvae to adults and implications for prey capture. *J. Exp. Biol.* 217:3748-3757.
51. **Yuval, B., Sudai L. & Y. Ziv** (2014) Abundance and diversity of holothuroids in shallow habitats of the northern Red Sea. *J. Mar. Biol.* 631309:1-7.
52. **Zarubin, M., Farstey, V., Wold, A., Falk-Petersen, S. & A. Genin** (2014) Intraspecific differences in lipid content of calanoid copepods across fine-scale depth ranges within the photic layer. *PLoS One* 9:e92935.

2013

1. **Amrani, A., Said-Ahmad, W., Shaked, Y. & R.P. Kiene** (2013) Sulfur isotope homogeneity of oceanic DMSP and DMS. *PNAS* 110:18413-18418.
2. **Apotheloz-Perret-Gentil, L., Holzmann, M. & J. Pawlowski** (2013) *Arnoldiellina fluorescens* gen. et sp. nov. - A new green autofluorescent foraminifer from the Gulf of Eilat (Israel). *Europ. J. Protist.* 49:210-216.
3. **Baranes, A.** (2013) *The Red Sea Sharks, Taxonomy, Biology and Ecology.* Sofia : Moscow : Pensoft Publishers. pp.241.
4. **Borell, E.M., Steinke, S. & M. Ilan** (2013) Direct and indirect effects of high $p\text{CO}_2$ on algal grazing by coral reef herbivores from the Gulf of Aqaba (Red Sea) *Coral Reefs*; 32:937-947.
5. **Byler, K.A., Carmi-Veal, M., Fine, M. & T.L. Goulet** (2013) Multiple symbiont acquisition strategies as an adaptive mechanism in the coral *Stylophora pistillata*. *PLoS One* 8:e59596.
6. **Caras, T. & A. Karnieli** (2013) Ground-level spectroscopy analyses and classification of coral reefs using a hyperspectral camera. *Coral Reefs* 32:825-834.
7. **Chindapol, N., Kaadorp, J.A., Cronemberger, C., Mass, T. & A. Genin** (2013) Modelling growth and form of the scleractinian coral *Pocillopora verrucosa* and the influence of hydrodynamics. *PLoS Comp. Biol.* 9:e1002849.
8. **Cohen, I., Dishon, G., Iluz, D. & Z. Dubinsky** (2013) UV-B as a photoacclimatory enhancer of the hermatypic coral *Stylophora pistillata*. *Open J. Mar. Sci.* 3:15-27.
9. **Dekel-Bird, N.P., Avrani, S., Sabehi, G. & I. Pekarsky** (2013) Diversity and evolutionary relationships of T7-like podoviruses infecting marine cyanobacteria. *Environ. Micro.* 15:1476-1491.
10. **Evans, D., Muller, W., Oron, S. & R. Willem** (2013) Eocene seasonality and seawater alkaline earth reconstruction using shallow-dwelling large benthic foraminifera. *Earth Planet. Sci. Letts.* 381:104-115.
11. **Fine, M., Gildor, H. & A. Genin** (2013) A coral reef refuge in the Red Sea. *Glob. Change Biol.* 19:3640-3647.
12. **Fine, M., Sabbah, S., Shashar, N. & O. Hoegh-Guldberg** (2013) Light from down under. *J. Exp. Biol.* 216:4341-4346.
13. **Foran, E., Weiner, S. & M. Fine** (2013) Biogenic fish-gut calcium carbonate is a stable amorphous phase in the gilt-head seabream, *Sparus aurata*. *Sci. Rep.* 3:1700.

14. **Gabay, Y., Benayahu, Y. & M. Fine** (2013) Does elevated $p\text{CO}_2$ effect reef octocorals? *Ecol. Evol.* 13:465-473.
15. **Golberg, K., Pavlov, V., Marks, S. & A. Kushmaro** (2013) Coral-associated bacteria, quorum sensing disrupters, and the regulation of biofouling. *Biofouling* 29:669-682.
16. **Henehan, M.J., Rae, J.W.B., Foster, G.L., Erez, J., Prentice, K.C., Kucera, M., Bostock, H.C., Martinez-Boti, M.A., Milton, J.A. & P.A. Wilson** (2013) Calibration of the boron isotope proxy in the planktonic foraminifera *Globigerinoides ruber* for use in palaeo- CO_2 reconstruction. *Earth Plant. Sci. Letts.* 364:111-122.
17. **Hilmi, N., Allemand, D., Dupont, S., Safa, A., Haraldsson, G., Nunes, P.A.L.D., Moore, C., Hattam, C., Reynaud, S., Hall-Spencer, J.M., Fine, M., Turley, C., Jeffree, R., Orr, J., Munday, P.L. & S.R. Cooley** (2013) Towards improved socio-economic assessments of ocean acidification's impacts. *Mar. Biol.* 160:1773-1787.
18. **Jehlička, J., Edwards, H.G.M. & A. Oren** (2013) Bacterioruberin and salinixanthin carotenoids of extremely halophilic Archaea and Bacteria: A Raman spectroscopic study. *Molec. Biomolec. Spectros.* 106:99-103.
19. **Jehlička, J. & A. Oren** (2013) Use of a handheld Raman spectrometer for fast screening of microbial pigments in cultures of halophilic microorganisms and in microbial communities in hypersaline environments in nature. *J. Raman Spectrosc.* 44:1285-1291.
20. **Jehlička, J. & A. Oren** (2013) Raman spectroscopy in halophile research. *Front. Microbiol.* 4:380.
21. **Kennedy, E.V., Perry, C.T., Halloran, P.R., Iglesias-Prieto, R., Schonberg, C.H.L., Wisshak, M., Form, A.U., Carricart-Ganivet, J.P., Fine, M., Eakin, C.M. & P.J. Mumby** (2013) Avoiding coral reef functional collapse requires local and global action. *Curr. Biol.* 23:912-918.
22. **Khait, R., Obolski, U., Hadany, L. & A. Genin** (2013) Food selectivity and diet switch can explain the slow feeding of herbivorous coral-reef fishes during the morning. *PLoS One* 8:e82391.
23. **Kremien, M., Shavit, U., Mass, T. & A. Genin** (2013) Benefit of pulsation in soft corals. *PNAS* 110:8978-8983.
24. **Martinez, S. & A. Abelson** (2013) Coral recruitment: the critical role of early post-settlement survival. *ICES J. Mar. Sci.* 70:1294-1298.
25. **Merkado, G., Holzmann, M., Apotheloz-Perret-Gentil, L., Pawlowski, J., Abdu, U., Almogi-Labin-A., Hyams-Kaphzan, O., Bakhrat, A., & S. Abramovich** (2013) Molecular evidence for Lessepsian invasion of soritids (larger symbiont bearing benthic foraminifera). *PLoS One* 8:e77725.

26. **Meron, D., Buia, M.C., Fine, M. & E. Banin** (2013) Changes in microbial communities associated with the sea anemone *Anemonia viridis* in a natural pH gradient. *Microb. Ecol.* 65:269-276.
27. **Oren, A., E Levi Bardavid, R., Kandel, N., Aizenshtat, Z. & J. Jehlička** (2013) Glycine betaine is the main organic osmotic solute in a stratified microbial community in a hypersaline evaporitic gypsum crust. *Extremophiles* 17:445-451.
28. **Özgül, A. & D. Angel** (2013) Wild fish aggregations around fish farms in the Gulf of Aqaba, Red Sea: implications for fisheries management and conservation. *Aquacult. Environ. Interact.* 4:135-145.
29. **Paramasivam, N., Ben-Dov, E., Arotsker, L., Kramarsky-Winter, E., Zvuloni, A., Loya, Y. & A. Kushmaro** (2013) Bacterial consortium of *Millepora dichotoma* exhibiting unusual multifocal lesion event in the Gulf of Eilat, Red Sea. *Microb. Ecol.* 65:50-59.
30. **Paramasivam, N., Ben-Dov, E., Arotsker, L. & A. Kushmaro** (2013) *Eilatimonas milleporae* gen. nov., sp. nov., a marine bacterium isolated from the hydrocoral *Millepora dichotoma*. *Intl. J. Syst. Evol. Microbiol.* 63:1880-1884.
31. **Philosof, A. & O. Beja** (2013) Bacterial, archaeal and viral-like rhodopsins from the Red Sea. *Environ. Microbiol. Rep.* 5:475-482.
32. **Polak, O. & N. Shashar** (2013) Economic value of biological attributes of artificial coral reefs. *ICES J. Mar. Sci.* 70:904-912.
33. **Schneider, K., Silverman, J., Kravitz, B., Rivlin, T., Schneider-Mor, A., Barbose, S., Byrne, M. & K. Caldeira** (2013) Inorganic carbon turnover caused by digestion of carbonate sands and metabolic activity of holothurians. *Estuar. Coast. Shelf Sci.* 133:217-223.
34. **Schnytzer, Y., Gimán, Y., Karplus, I. & Y. Achituv** (2013) Bonsai anemones: Growth suppression of sea anemones by their associated kleptoparasitic boxer crab. *J. Exp. Mar. Biol. Ecol.* 448:265-270.
35. **Shaked, Y. & A. Rose** (2013) Seas of Superoxide. *Science* 340:1176-1177.
36. **Shaked, Y. & R. Armoza-Zvuloni** (2013) Dynamics of hydrogen peroxide in a coral reef: Sources and sinks. *J. Geophys. Res. Biogeosci.* 118:1793-1801.
37. **Shenkar, N.** (2013) A new species of the genus *Rhopalaea* (Class: Ascodiaceae) from the Red Sea. *Zootaxa* 3599:51-58.
38. **Sorek, M., Yacobi, Y.Z., Roopin, M., Berman-Frank, I. & O. Levy** (2013) Photosynthetic circadian rhythmicity patterns of *Symbiodium*, the coral endosymbiotic algae. *Proc. R. Soc. B.* 280:20122942.

39. **Taylor, Z.J., Liberzon, A., Gurka, R., Holzman, R., Reesbeck, T. & F.J. Diez** (2013) Experiments on the vortex wake of a swimming knifefish. *Exp. Fluids* 54:1588.
40. **Tremblay, P., Fine, M., Maguer, J.F., Grover, R. & C. Ferrier-Pages** (2013) Photosynthate translocation increases in response to low seawater pH in a coral-dinoflagellate symbiosis. *Biogeosciences* 10:3997-4007.
41. **van Ofwegen, L.P., Benayahu, Y. & C.S. McFadden** (2013) *Sinularia leptoclados* (Ehrenberg, 1834) (Cnidaria, Octocorallia) re-examined. *ZooKeys* 272:29-59.
42. **Wurgaft, E., Shamir, O., Barkan, E., Paldor, N. & B. Luz** (2013) Mixing processes in the deep water of the Gulf of Elat (Aqaba): Evidence from measurements and modeling of the triple isotopic composition of dissolved oxygen. *Limnol. Oceanogr.* 58:1373-1386.

2012

1. **Aharonovich, D. & Y. Benayahu** (2012) Microstructure of octocoral sclerites for diagnosis of taxonomic features. *Mar. Biodiv.* 42:173-174.
2. **Armoza-Zvuloni, R., Kramarsky-Winter, E., Rosenfeld, H., Shore, L.S., Segal, R., Sharon, D. & Y. Loya** (2012) Reproductive characteristics and steroid levels in the scleractinian coral *Oculina patagonica* inhabiting contaminated sites along the Israeli Mediterranean coast. *Mar. Poll. Bull.* 64:1556-1563.
3. **Atad, I., Zvuloni, A., Loya, Y. & E. Rosenberg** (2012) Phage therapy of the white plague-like disease of *Favia favaus* in the Red Sea. *Coral Reefs* 31:665-670.
4. **Avrani, S., Schwartz, D.A. & D. Lindell** (2012) Virus-host swinging party in the oceans: Incorporating biological complexity into paradigms of antagonistic coexistence. *Mob. Genet. Elements* 2:88-95.
5. **Barneah, O., Ben-Dov, E., Benayahu, Y., Brickner, I. & A. Kushmaro** (2012) Molecular diversity and specificity of acoel worms associated with corals in the Gulf of Eilat (Red Sea). *Aquat. Biol.* 14:277-281.
6. **Ben-Tzvi, O., Abelson, A., Gaines, S.D., Bernardi, G., Beldade, R., Sheehy, M.S., Paradis, G.L. & M. Kiflawi** (2012) Evidence for cohesive dispersal in the sea. *PLoS One* 7:e42672.
7. **Black, K.D., Calder, L.A., Nickell, T.D., Sayer, M.D.J., Orr, H., Brand, T., Cook, E.J., Magill, S.H., Katz, T., Eden, N., Jones, K.J., Tsapakis, M. & D. Angel** (2012) Chlorophyll, lipid profiles and bioturbation in sediments around a fish cage farm in the Gulf of Eilat, Israel. *Aquaculture* 356-357:317-327.
8. **Carlson, D.F., Fredj, E., Gildor, H., Biton, E., Steinbuck, J.V., Monismith, S.G. & A. Genin** (2012) Observations of tidal currents in the northern Gulf of Eilat/Aqaba (Red Sea). *J. Mar. Syst.* 101-102:14-28.
9. **D'Angelo, D., Smith, E.H., Oswald, F., Burt, J., Tchernov, D. & J. Wiedenmann** (2012) Locally accelerated growth is part of the innate immune response and repair mechanisms in reef-building corals as detected by green fluorescent protein (GFP)-like pigments. *Coral Reefs* 31:1045-1056.
10. **Dishon, G., Dubinsky, Z., Caras, T., Rahav, E., Bar-Zeev, E., Tzuber, Y. & D. Iluz** (2012) Optical habitats of ultraphytoplankton groups in the Gulf of Eilat (Aqaba), northern Red Sea. *Intl. J. Remote Sensing* 33:2683-2705.
11. **Dishon, G., Dubinsky, Z., Fine, M. & D. Iluz** (2012) Underwater light field patterns in subtropical coastal waters: A case study from the Gulf of Eilat (Aqaba). *Isr. J. Plant Sci.* 60:265-275.

12. **Dunckley, J.F., Koseff, J.R., Steinbuck, J.V., Monismith, S.G. & A. Genin** (2012) Comparison of mixing efficiency and vertical diffusivity models from temperature microstructure. *J. Geophys. Res.* 117:C10008.
13. **Eltzov, E., Pennybaker, S., Shanit-Orland, M., Marks, R.S. & A. Kushmaro** (2012) Multi-resistance as a tool for detecting novel beta-lactam antibiotics in the environment. *Sens. Actuators B Chem.* 174:342-374.
14. **Golani, D. & G. Bernardi** (2012) Differential invading potential among cryptic species of blotchfin dragonet, *Callionymus filamentosus*, a Lessepsian bioinvader. *Mar. Ecol. Prog. Ser.* 450:159-166.
15. **Grasela, J.J., Pomponi, S.A., Rinkevich, B. & J. Grima** (2012) Efforts to develop a cultured sponge cell line: Revisiting an intractable problem. *In Vitro Cell Dev. Biol. Anim.* 48:12-20.
16. **Grossowicz, M. & Y. Benayahu** (2012) Differential morphological features of two *Dendronephthya* soft coral species suggest differences in feeding niches. *Mar. Biodiv.* 42:65-72.
17. **Holzman, R., Collar, D.C., Mehta, R.S. & P.C. Wainwright** (2012) An integrative modeling approach to elucidate suction-feeding performance. *J. Exp. Biol.* 215:1-13.
18. **Holzman, R., Collar, D.C., Price, S.A., Hulseley, C.D., Thomson, R.C. & P.C. Wainwright** (2012) Biomechanical trade-offs bias rates of evolution in the feeding apparatus of fishes. *Proc. R. Soc. B* 279:1287-1292.
19. **Josef, N., Amodio, P., Fiorito, G. & N. Shashar** (2012) Camouflaging in a complex environment - octopuses use specific features of their surroundings for background matching. *PLoS One* 7:e37579.
20. **Katz, T., Yahel, G., Reidenbach, M., Tunnicliffe, V., Herut, B., Crusius, J., Whitney, F., Snelgrove, P.V.R. & B. Lazar** (2012) Resuspension by fish facilitates the transport and redistribution of coastal sediments. *Limnol. Oceanogr.* 57:945-958.
21. **Marra, J., Capuzzo, E. & V. Montecino** (2012) Potential grazing effects in incubations with 14C. *Aquat. Biol.* 14:283-288.
22. **Meeder, E., Mackey, K.R.M., Paytan, A., Shaked, Y., Iluz, D., Stambler, N., Rivlin, T., Post, A.F. & B. Lazar** (2012) Nitrite dynamics in the open ocean - clues from seasonal and diurnal variations. *Mar. Ecol. Prog. Ser.* 453:11-26.
23. **Meron, D., Rodolfo-Metalpa, R., Cunning, R., Baker, A.C., Fine, M. & E. Banin** (2012) Changes in coral microbial communities in response to a natural pH gradient. *ISME J.* 1-11.

24. **Oufiero, C.E., Holzman, R.A., Young, F.A. & P. Wainwright** (2012) New insights from serranid fishes on the role of trade-offs in suction-feeding diversification. *J. Exp. Biol.* 215:3845-3855.
25. **Polak, O. & N. Shashar** (2012) Can a small artificial reef reduce diving pressure from a natural coral reef? Lessons learned from Eilat, Red Sea. *Ocean Coast. Manage.* 55:94-100.
26. **Post, A.F., Rihlman, B. & Q. Wang** (2012) Decoupling of ammonium regulation and *ntcA* transcription in the diazotrophic marine cyanobacterium *Trichodesmium* sp. IMS101. *ISME J.* 6:629-637.
27. **Sabehi, G., Shaulov, L., Silver, D.H., Yanai, I., Harel, A. & D. Lindell** (2012) A novel lineage of myoviruses infecting cyanobacteria is widespread in the oceans. *PNAS* 109:2037-2042.
28. **Schmitt, S., Tsai, P., Bell, J., Fromont, J., Ilan, M., Lindquist, N., Perez, T., Rodrigo, A., Schupp, P.J., Vacelet, J., Webster, N., Hentschel, U. & M.W. Taylor** (2012) Assessing the complex sponge microbiota: core, variable and species-specific bacterial communities in marine sponges. *ISME J.* 6:564-576.
29. **Shani, A., Polak, O. & N. Shashar** (2012) Artificial reefs and mass marine ecotourism. *Tourism Geographies* 14:361-382.
30. **Shenkar, N.** (2012) Ascidian (Chordata, Ascidiacea) diversity in the Red Sea. *Mar. Biodiv.* 42:459-469.
31. **Shnit-Orland, M., Sivan, A. & A. Kushmaro** (2012) Antibacterial activity of *Pseudoalteromonas* in the coral holobiont. *Microb. Ecol.* 64:851-859.
32. **Shwartsberg, M., Kizner, Z., Dubinsky, Z. & A. Bachar** (2012) Morphological growth response of *Stylophora pistillata* to in-situ manipulations of light intensity and water flow regime. *Isr. J. Ecol. Evol.* 58:69-85.
33. **Siboni, N., Ben-Dov, E., Sivan, A. & A. Kushmaro** (2012) Geographic specific coral-associated ammonia-oxidizing archaea in the northern Gulf of Eilat (Red Sea). *Microb. Ecol.* 64:18-24.
34. Silverman, J., Kline, D.I., Johnson, L., Rivlin, T., Schneider, K., Erez, J., Lazar, B. & K. Caldeira (2012) Carbon turnover rates in the One Tree Island reef: A 40-year perspective. *J. Geophys. Res.* 117:G03023.
35. **Sorek, M. & O. Levy** (2012) The effect of temperature compensation on the circadian rhythmicity of photosynthesis in *Symbiodinium*, coral-symbiotic alga. *Sci. Rep.* 2:536.
36. **Staab, K.L., Holzman, R., Hernandez, L.P. & P.C. Wainwright** (2012) Independently evolved upper jaw protrusion mechanisms show convergent hydrodynamic function in teleost fishes. *J. Exp. Biol.* 215:1456-1463.

37. **Tchernov, D., Mass, T. & D. Gruber** (2012) Symbiotic transition of algae-coral triggered by paleoclimatic events? *Trends Ecol. Evol.* 27:194-195.
38. **Yoffe, C., Lotan, T. & Y. Benayahu** (2012) A modified view on octocorals: *Heteroxenia fuscescens* nematocysts are diverse, featuring both an ancestral and a novel type. *PLoS One* 7:e31902.
39. **Zarubin, M., Belkin, S., Ionescu, M. & A. Genin** (2012) Bacterial bioluminescence as a lure for marine zooplankton and fish. *PNAS* 109:853-857.
40. **Zurel, D., Gophna, U. & Y. Benayahu** (2012) Parity and disparity between two Chama oysters: the reproductive biology of the Indo-Pacific *C. pacifica* Broderip, invasive to the Mediterranean Sea; and *C. savignyi* Lamy, indigenous to the Red Sea. *Mar. Ecol.* 33:261-271.
41. **Zvuloni, A., Armoza-Zvuloni, R. & Y. Shaked** (2012) Feeding activity by the blenny *Exallias brevis* causes multifocal bleaching in corals: Reply to Carlson. *Mar. Ecol. Prog. Ser.* 463:301-303.

2011

1. **Allison, N., Cohen, I., Finch, A.A., Erez, J. & EMIF** (2011) Controls on Sr/Ca and Mg/Ca in scleractinian corals: The effects of Ca-ATPase and transcellular Ca channels on skeletal chemistry. *Geochim. Cosmochim.* 75:6350-6360.
2. **Anderson, W.D., Baranes, A. & M. Goren** (2011) Redescription of the perciform fish *Symphysanodon disii* (Symphysanodontidae) from the Gulf of Aqaba, Red Sea, with comments on *S. pitondelafournaisei* and sexual dimorphism in the genus. *Zootaxa* 3027:1-8.
3. **Armoza-Zvuloni, R., Segal, R., Kramarsky-Winter, E. & Y. Loya** (2011) Repeated bleaching events may result in high tolerance and notable gametogenesis in stony corals: *Oculina patagonica* as a model. *Mar. Ecol. Prog. Ser.* 426:149-159.
4. **Ashkenazy, Y. & H. Gildor** (2011) On the probability and spatial distribution of ocean surface currents. *J. Phys. Oceanogr.* 41:2205-2306.
5. **Avrani, S., Wurtzel, O., Sharon, I., Sorek, R. & D. Lindell** (2011) Genomic island variability facilitates *Prochlorococcus* - virus coexistence. *Nature* 474:604-608.
6. **Belmaker, J., Ziv, Y. & N. Shashar** (2011) The influence of connectivity on richness and temporal variation of reef fishes. *Landscape Ecol.* 26:587-597.
7. **Ben-Tzvi, O., Al-Zibdah, M., Bresler, V., Jamal, Y. & A. Abelson** (2011) Coral reef monitoring: From cytological parameters to community indices. *J. Mar. Biol.* Article ID. 151268.
8. **Bergman, O., Haber, M., Mayzel, B., Anderson, M.A., Shpigel, M., Hill, R.T. & M. Ilan** (2011) Marine based cultivation of *Diacarnus* sponges and the bacterial community composition of wild and maricultured sponges and their larvae. *Mar. Biotech.* 13:1169-1182.
9. **Bergman, O., Mayzel, B., Anderson, M.A., Shpigel, M., Hill, R.T. and M. Ilan** (2011) Examination of marine-based cultivation of three demosponges for acquiring bioactive marine natural products. *Mar. Drugs* 9:2201-2219.
10. **Bertrand, S. & H. Escriva** (2011) Evolutionary crossroads in developmental biology: Amphioxus. *Primer* 138:4819-4830.
11. **Biton, E. & H. Gildor** (2011) The coupling between exchange flux through a straight and dynamics in a small convectively driven marginal sea: The Gulf of Aqaba (Gulf of Eilat). *J. Geophys. Res.* 116:C06017.
12. **Biton, E. & H. Gildor** (2011) Stepwise seasonal restratification and the evolution of salinity minimum in the Gulf of Aqaba (Gulf of Eilat). *J. Geophys. Res.* 116:C08022.

13. **Biton, E. & H. Gildor** (2011) The general circulation of the Gulf of Aqaba (Gulf of Eilat) revisited: The interplay between the exchange flow through the Straits of Tiran and surface fluxes. *J. Geophys. Res.* 116:C08022.
14. **Bogorodsky, S.V., Randall, J.E. & D. Golani** (2011) Four new records of shore fishes for the Red Sea, with notes on *Parupeneus heptacanthus* and *Diodon liturosus*. *Zootaxa* 3057:49-60.
15. **Chadwick, N.E. & K.M. Morrow** (2011) Competition among sessile organisms on coral reefs. In: *Coral Reefs: An Ecosystem in Transition*. Dubinsky, Z & N. Stambler (Eds.); Springer Science. pp.347-371.
16. **Chase, Z., Paytan, A., Beck, A., Biller, D., Bruland, K., Measures, C. & S. Sanudo-Wilhelmy** (2011) Evaluating the impact of atmospheric deposition on dissolved trace-metals in the Gulf of Aqaba, Red Sea. *Mar. Chem.* 126:256-268.
17. **Chu, J.W.F., Maldonado, M. & G. Yahel** (2011) Glass sponge reefs as a silicon sink. *Mar. Ecol. Prog. Ser.* 411:1-14.
18. **Darmaillacq, A.S., Dickel, L., Rahmani, N. & N. Shashar** (2011) Do reef fish, *Variola louti* and *Scarus niger*, perform amodal completion? Evidence from a field study. *J. Comp. Psychol.* 125:273-277.
19. **de Grave, S. & M. Johnson** (2011) On the presence of *Thorella cobourgi* Bruce, 1982 (*Decapoda, hyppolytidae*) in the Gulf of Aqaba, Red Sea. *Crustaceana* 84:1149-1151.
20. **Erez, J., Reynaud, S., Silverman, J., Schneider, K. & D. Allemand** (2011) Coral calcification under ocean acidification and global change. In: *Coral Reefs: An Ecosystem in Transition*. Dubinsky, Z. & N. Stambler (Eds.); Springer Science. pp. 151-176.
21. **Eyal, G., Eyal-Shaham, L. & Y. Loya** (2011) "Teeth-anchorage": Sleeping behavior of a Red Sea filefish on a branching coral. *Coral Reefs* 30:(707).
22. **Gagnon, Y.L., Shashar, N. & R.H.H. Kroger** (2011) Adaptation in the optical properties of the crystalline lens in the Lessepsian migrate *Siganus rivulatus* (Forsskal, 1775). *J. Exp. Biol.* 214:2724-2729.
23. **Gutner-Hoch, E. & M. Fine** (2011) Genotypic diversity and distribution of *Ostreobium quekettii* within scleractinian corals. *Coral Reefs* 30:643-650.
24. **Kahng, S.E., Benayahu, Y. & H.R. Lasker** (2011) Sexual reproduction in octocorals. *Mar. Ecol. Prog. Ser.* 443:265-283.
25. **Kamennaya N.A. & A.F. Post** (2011) Characterization of cyanate metabolism in marine Synechococcus and Prochlorococcus spp. *Appl. Environ. Microbiol.* 77:291-301.

26. **Kisakurek, B., Eisenhauer, A., Bohm, F., Hathorne, E.C. & J. Erez** (2011) Controls on calcium isotope fractionation in cultured planktic foraminifera, *Globigerinoides ruber* and *Globigerinella siphonifera*. *Geochim. Cosmochim.* 75:427-443.
27. **Korzen, L., Israel, A. & A. Abelson** (2011) Grazing effects of fish versus sea urchins on turf algae and coral recruits: Possible implications for coral reef resilience and restoration. *J. Mar. Biol.* Art.960207.
28. **Kranzler, C., Lis, H., Shaked, Y. & N. Keren** (2011) The role of reduction in iron uptake processes in a unicellular, planktonic cyanobacterium. *Environ. Micro.* 13:2990-2999.
29. **Kvitt, H., Rosenfeld, H., Zandbank, K. & D. Tchernov** (2011) Regulation of apoptotic pathways by *Stylophora pistillata* (Anthozoa, Pocilloporidae) to survive thermal stress and bleaching. *PLoS One* 6:e28665.
30. **Lazar, B. & M. Stein** (2011) Freshwater on the route of hominids out of Africa revealed by U-Th in Red Sea corals. *Geol.* 39:1067-1070.
31. **Lerner, A., Sabbah, S., Erlick, C. & N. Shashar** (2011) Navigation by light polarization in clear and turbid waters. *Phil. Trans. R. Soc. B.* 366:671-679.
32. **Levin, L.A., Gambi, M.C., Barry, J.P., Genin, A. & S. Thrush** (2011) The Dayton legacy: baselines, benchmarks, climate, disturbance and proof. *Mar. Ecol.* 32261-265.
33. **Leys, S.P., Yahel G., Reidenbach M. A. , Tunnicliffe V., Shavit U. & H.M. Reiswig** (2011) The sponge pump: The role of current induced flow in the design of the sponge body plan. *PLoS One* 6:e27787.
34. **Linden, B. & B. Rinkevich** (2011) Creating stocks of young colonies from brooding coral larvae, amenable to active reef restoration. *J. Exp. Mar. Biol. Ecol.* 39840-46.
35. **Mackey, K.R.M., Bristow, L., Parks, D.R., Altabet, M.A., Post, A.F. & A. Paytan** (2011) The influence of light on nitrogen cycling and the primary nitrite maximum in a seasonally stratified sea. *Prog. Oceanogr.* 91:545-560.
36. **McFadden, C.S., Benayahu, Y., Pante, E., Thoma, J.N., Andrew, Nevarez, P.A. & S.C. France** (2011) Limitations of mitochondrial gene barcoding in Octocorallia. *Mol. Ecol.* 11:19-31.
37. **Mass, T., Brickner, I., Hendy, E. & A. Genin** (2011) Enduring physiological and reproductive benefits of enhanced flow for a stony coral. *Limnol. Oceanogr.* 56:2176-2188.
38. **Meron, D., Atias, E., Kruh, L.I., Elifantz, H., Minz, D., Fine, M. & E. Banin** (2011) The impact of reduced pH on the microbial community of the coral *Acropora eurystoma*. *ISME J.* 5:51-60.

39. **Nilsson, K.S., Wallberg, A. & U. Jondelius** (2011) New species of acoela from the Mediterranean, the Red Sea, and the South Pacific. *Zootaxa* 2867:1-3.
40. **Nir, O., Gruber, D.F., Einbinder, S., Kark, S. & D. Tchernov** (2011) Changes in scleractinian coral *Seriatopora hystrix* morphology and its endocellular *Symbiodinium* characteristics along a bathymetric gradient from shallow to mesophotic reef. *Coral Reefs* 30:1089-1100.
41. **Pasternak, G., Ziv, R., Eyal, G., Shefer, S., Mienis, H.K., Rittner, O & B.S. Galil** (2011) On the population of *Chromodoris annulata* Eliot, 1904 (Mollusca: Opisthobranchia: Chromodorididae) off the Mediterranean coast of Israel. *Aquat. Inv.* 6:S91-S93.
42. **Polak, O., Loya, Y., Brickner, I., Kramarski-Winter, E. & Y. Benayahu** (2011) The widely distributed Indo-Pacific zoanthid *Palythoa tuberculosa*: A sexually conservative strategist. *Bull. Mar. Sci.* 87:605-621.
43. **Post, A.F., Penno, S., Zandbank, K., Paytan, A., Huse, S.M. & D.M. Welch** (2011) Long term seasonal dynamics of *Synechococcus* population structure in the Gulf of Aqaba, northern Red Sea. *Front. Microbiol.* 2:131.
44. **Post A.F., Rihtman B. & W. Wang** (2011) Decoupling of ammonium regulation and ntcA transcription in the diazotrophic marine cyanobacterium *Trichodesmium* IMS101. *ISME J.* 6:629-637.
45. **Roff, G., Kvennefors, E.C.E., Fine, M., Ortiz, J., Davy, J.E. & O. Hoegh-Guldberg** (2011) The ecology of 'Acroporid White Syndrome', a coral disease from the southern Great Barrier Reef. *PLoS One* 6:e26829.
46. **Roopin, M., Thornhill, D.J., Santos, S.R. & N.E. Chadwick** (2011) Ammonia flux, physiological parameters, and *Symbiodinium* diversity in the anemonefish symbiosis on Red Sea coral reefs. *Symbiosis* 53:63-74.
47. **Rosenberg, E. & A. Kushmaro** (2011) Microbial diseases of corals: pathology and ecology. In: *Corals reefs: An Ecosystem in Transition*. Dubinsky, Z. & N. Stambler (Eds); Springer, Heidelberg. pp. 451-464.
48. **Rubin, M., Berman-Frank, I. & Y. Shaked** (2011) Dust- and mineral-iron utilization by the marine dinitrogen-fixer *Trichodesmium*. *Nat. Geosci.* 4:529-534.
49. **Shaked, Y., Lazar, B., Marco, S., Stein, M. & A. Agnon** (2011) Late Holocene events that shaped the shoreline at the northern Gulf of Aqaba recorded by a buried fossil reef. *Isr. J. Earth Sci.* 58:355-368.
50. **Sharon, Y., Levitan, O., Spungin, D., Berman-Frank, I. & S. Beer** (2011) Photoacclimation of the seagrass *Halophila stipulacea* to the dim irradiance at its 48-meter depth limit. *Limnol. Oceanogr.* 56:357-362.

51. **Shashar, N., Johnsen, S., Lerner, A., Sabbah, S., Chiao, C.C., Mathger, L.M. & R.T. Hanlon** (2011) Underwater linear polarization-physical limitations to biological functions. *Phil. Trans. R. Soc. B.* 366:649-654.
52. **Stambler, N.** (2011) Zooxanthellae: The yellow symbionts inside animals. *In: Coral Reefs: An Ecosystem in Transition.* Dubinsky, Z. & N. Stambler (Eds.); Springer Science. pp.87-106.
53. **Stambler, N.** (2011) Marine microalgae/cyanobacteria-invertebrate symbiosis: Trading energy for strategic material. *In: All Flesh is Grass: Plant-Animal Interactions.* Seckback, J. & Z. Dubinsky (Eds.); Springer Science. 16:383-414.
54. **Sharon, Y., Dishon, G. & S. Beer** (2011) The effect of UV radiation on chloroplast clumping and photosynthesis in the seagrass *Halophila stipulacea* grown under high-PAR conditions. *J. Mar. Biol.* 483428.
55. **Steinbuck, J.V., Roseff, J.R., Genin, A., Stacey, M.T. & S.G. Monismith** (2011) Horizontal dispersion of ocean tracers in internal wave shear. *J. Geophys. Res.* 116:C11031.
56. **Tchernov, D., Kvitt, H., Haramaty, L., Bibby, T.S., Gorbunov, M.Y., Rosenfeld, H. & P.G. Falkowski** (2011) Apoptosis and the selective survival of host animals following thermal bleaching in zooxanthellate corals. *PNAS* 108:9905-9909.
57. **Tkavc, R., Ausec, L., Oren, A. & N. Gunde-Cimerman** (2011) Bacteria associated with *Artemia* spp. along the salinity gradient of the solar salterns at Eilat (Israel). *FEMS Microbiol. Ecol.* 77:301-321.
58. **Vizel, M., Loya, Y., Downs, C.A. & E. Kramarsky-Winter** (2011) A novel method for coral explant culture and micropropagation. *Mar. Biotechnol.* 13:423-432)
59. **Zurel, D., Benayahu, Y., Or, A., Kovacs, A. & U. Gophna** (2011) Composition and dynamics of the gill microbiota of an invasive Indo-Pacific oyster in the eastern Mediterranean Sea. *Environ. Micro.* 13:1467-1476.
60. **Zvuloni, A., Armoza-Zvuloni, R. & Y. Shaked** (2011) Multifocal bleaching of *Millepora dichotoma* in the Gulf of Aqaba (Eilat), Red Sea. *Mar. Ecol. Prog. Ser.* 441:25-32.

2010

1. **Aberle, N., Hansen, T., Boettger-Schnack-R., Burmeister, A., Post, A.F. & U. Sommer** (2010) Differential routing of 'new' nitrogen toward higher trophic levels within the marine food web of the Gulf of Aqaba, Northern Red Sea. *Mar. Biol.* 157:157-169.
2. **Amar, K-O. & B. Rinkevich** (2010) Mounting of erratic histoincompatible responses in hermatypic corals: a multi-year interval comparison. *J. Exp. Biol.* 213:535-540.
3. **Anderson, L.D., Faul, K.L. & A. Paytan** (2010) Phosphorus associations in aerosols: What can they tell us about P bioavailability? *Mar. Chem.* 120:44-56.
4. **Barhartan, K., Zibdah, M., Ahmed, Y., Israel, A., Brickner, I. & A. Abelson** (2010) Macroalgae in the coral reefs of Eilat (Gulf of Aqaba, Red Sea) as a possible indicator of reef degradation. *Mar. Poll. Bull.* 60:759-764.
5. **Belmaker, J., Brokovich, E., China, V., Golani, D. & M. Kiflawi** (2010) Introduction rate of Lessepsian fishes into the Mediterranean. *In: Fish Invasions of the Mediterranean Sea: Change and Renewal. Golani D. & B. Appelbaum-Golani (Eds); Pensoft Publishers, Sofia-Moscow.* pp.57-69.
6. **Ben-Tzvi, O., D. Tchernov & M. Kiflawi** (2010) Role of coral-derived chemical cues in microhabitat selection by settling *Chromis viridis*. *Mar. Ecol. Prog. Ser.* 409:181-187.
7. **Borell, E.M., Romatzki, S.B.C. & S.C.A. Ferse** (2010) Differential physiological responses of two congeneric scleractinian corals to mineral accretion and an electric field. *Coral Reefs* 29:191-200.
8. **Brickner, I. & J.T. Hoeg** (2010) Antennular specialization in cyprids of coral-associated barnacles. *J. Exp. Mar. Biol. Ecol.* 392:115-124.
9. **Brickner, I., Loya, Y. & Y. Achituv** (2010) Diverse life strategies in two coral-inhabiting barnacles (Pyrogomatidae) occupying the same host (*Cyphastrea chalcidicum*), in the northern Gulf of Eilat. *J. Exp. Mar. Biol. Ecol.* 392:220-227.
10. **Brokovich, E., Ayalon, I., Einbinder, S., Segev, N., Shaked, Y., Genin, A., Kark, S. & M. Kiflawi** (2010) Grazing pressure on coral reefs decreases across a wide depth gradient in the Gulf of Aqaba, Red Sea. *Mar. Ecol. Prog. Ser.* 399:69-80.
11. **Brokovich, E., Ben-Ari-T., Kark, S., Kiflawi, M., Dishon, G., Iluz, D. & N. Shashar** (2010) Functional changes of the visual system of the damselfish *Dascyllus marginatus* along its bathymetric range. *Physiol. Behav.* 101:413-421.
12. **Carlson, D.F., Muscarella, P.A., Gildor, H., Lipphardt, B.L. & E. Fredj** (2010)

13. How useful are progressive vector diagrams for studying coastal ocean transport? *Limnol. & Oceanogr.: Methods* 8:98-106.
14. **Carlson, D.F., Fredj, E., Gildor, H. & V. Rom-Kedar** (2010) Deducing an upper bound to the horizontal eddy diffusivity using a stochastic Lagrangian model. *Environ. Fluid Mech.* 10:499-520.
15. **Cartamil, D., Wegner, N.C., Kacev, D., Ben-Aderet, N., Kohin, S. & J.B. Graham** (2010) Movement patterns and nursery habitat of juvenile thresher sharks *Alopias vulpinus* in the Southern California Bight. *Mar. Ecol. Prog. Ser.* 404:249-258.
16. **Claessens, M., Wickham, S.A., Post, A.F. & M. Reuter** (2010) A paradox of the ciliates? High ciliate diversity in a resource-poor environment. *Mar. Biol.* 157:483-494.
17. **Diamant, A.** (2010) Red-Med immigration: A fish parasitology perspective, with special reference to the Myxosporea. In: *Fish Invasions of the Mediterranean Sea: Change and Renewal*. Golani D. & B. Appelbaum-Golani (Eds); Pensoft Publishers, Sofia–Moscow. pp.85-97.
18. **Gildor, H., Fredj, E. & A. Kostinski** (2010) The Guf of Eilat/Aqaba: A natural driven cavity? *Geophys. Astrophys. Fluid Dyn.* 104:301-308.
19. **Gillor, O., Hadas, O., Post, A.F. & S. Belkin** (2010) Phosphorus and nitrogen in a monomictic freshwater lake: employing cyanobacterial bioreporters to gain a new insight into nutrient bioavailability. *Fresh. Biol.* 55:1182–1190.
20. **Golani, D. & S.V. Bogorodsky** (2010) The fishes of the Red Sea - reappraisal and updated checklist. *Zootaxa* 2463:1-135.
21. **Guzner, B., Novplanksky, A., Shalit & N.E. Chadwick** (2010) Indirect impacts of recreational scuba diving: Patterns of growth and predation in branching stony corals. *Bull. Mar. Sci.* 86:727-742.
22. **Johansen, J.L., Vaknin, R., Steffensen, J.F. & P. Domenici** (2010) Kinematics and energetic benefits of schooling in the labriform fish, striped surfperch, *Embiotoca lateralis*. *Mar. Ecol. Prog. Ser.* 420:221-229.
23. **Krief, S., Hendy, E.J., Fine, M., Yam, R., Meibom, A., Foster, G.L. & A. Shemesh** (2010) Physiological and isotopic responses of scleractinian corals to ocean acidification. *Geochim. Cosmochim.* 74:4988-5001.
24. **Kuguru, B., Achituv, Y., Gruber, D.F. & D. Tchernov** (2010) Photoacclimation mechanisms of corallimorpharians on coral reefs: Photosynthetic parameters of zooxanthellae and host cellular responses to variation in irradiance. *J. Exp. Mar. Biol. Ecol.* 394:53-62.

25. **La Vigne, M., Matthews, K.A., Grottoli, A.G., Cobb, K.M., Anagnostou, E., Cabioch, G. & R.M. Sherrell** (2010) Coral skeleton P/Ca proxy for seawater phosphate: Multi-colony calibration with a contemporaneous phosphate record. *Geochim. Cosmochim.* 74:1282-1293.
26. **Lee, J.J., Cervasco, M.H., Morales, J., Billik, M., Fine, M. & O. Levy** (2010) Symbiosis drove cellular evolution. *Symbiosis* 41:13-25.
27. **Levy, O., Rosenfeld, M., Loya, Y., Yam, R., Mizrachi, I. & A. Shemesh** (2010) Anthropogenic stressors and authroption processes as recorded by stable isotopes compositions in coral skeletons. *Biogeosci. Discuss.* 7:7657-7672.
28. **Mass, T., Genin, A., Shavit, U., Grinstein, M. & D. Tchernov** (2010) Flow enhances photosynthesis in marine benthic autotrophs by increasing the efflux of oxygen from the organism to the water. *PNAS* 107:2527-2531.
29. **Mass, T., Kline, D.I., Roopin, M., Veal, C.J., Cohen, S., Iluz, D. & O. Levy** (2010) The spectral quality of light is a key driver of photosynthesis and photoadaptation in *Styophora pistillata* colonies from different depths in the Red Sea. *J. Exp. Biol.* 213:4084-4091.
30. **Mizrachi, I., Loya, Y., Rosenfeld, M., Kramarski-Winter, E., Yam, R. & A. Shemesh** (2010) The build up of the isotopic signal in skeletons of the stony coral *Porites lutea*. *Geochim. et Cosmochim.* 74:7021-7030.
31. **Monismith, S.G., Davis, K.A., Shellenbarger, G.G., Hench, J.L., Nidzieko, N.J., Santoro, A.E., Reidenbach, M.A., Rosman J.H., Holtzman, R., Martens, C.S., Lindquist, N.L., Southwell, M.W. & A. Genin** (2010) Flow effects on benthic grazing on phytoplankton by a Caribbean reef. *Limnol. Oceanogr.* 55:1881-1892.
32. **Ohad, I., Raanan, H., Keren, N., Tchernov, D. & A. Kaplan** (2010) Light-induced changes within photosystem II protects *Microcoleus* sp. in biological desert sand crusts against excess light. *PLoS One* 5:e11000.
33. **Oren, A.** (2010) Thoughts on the "missing link" between saltworks biology and solar salt quality. *Global NEST J.* 12:417-425.
34. **Oren, A.** (2010) Mats of filamentous and unicellular cyanobacteria in hypersaline environments. In: *Microbial Mats. Modern and Ancient Microorganisms in Stratified Systems.* Seckbach, J. & A. Oren (Eds.); Springer, Dordrecht. pp.389-400.
35. **Rollion-Bard, C. & J. Erez** (2010) Intra-shell boron isotope ratios in the symbiont-bearing benthic foraminiferan *Amphistegina lobifera*: Implications for $\delta^{11}\text{B}$ vital effects and paleo-pH reconstructions. *Geochim. Cosmo.* 74:1530-1536.
36. **Rosenberg, E., G. Sharon & I. Zilber-Rosenberg** (2010) Temperature-induced bacterial bleaching of corals. *Nova Acta Leopoldina* 381:43-47.

37. **Saragosti, E., Tchernov, D., Katskir, A. & Y. Shaked** (2010) Extracellular production and degradation of superoxide in the coral *Stylophora pistillata* and cultured *Symbiodinium*. *PLoS One* 5:e12508.
38. **Sella, I. & Y. Benayahu** (2010) Rearing cuttings of the soft coral *Sarcophyton glaucum* (Octocorallia, Alcyonacea): towards mass production in a closed seawater system. *Aquat. Res.* 41:1748-1758.
39. **Shaked, Y., Harris, R. & N. Klein-Kedem** (2010) Hydrogen peroxide photocycling in the Gulf of Aqaba, Red Sea. *Environ. Sci. Technol.* 44:3238-3244.
40. **Sharon, G. & E. Rosenberg** (2010) Healthy corals maintain *Vibrio* in the VBNC state. *Environ. Microbiol Reps* 2:116-119.
41. **Shenkar, N. & G. Lambert** (2010) A new species of the genus *Boltenia* (Ascidiacea) from the Red Sea. *Zootaxa* 2391:61-68.
42. **Shnit-Orland, M., Sivan, A. & A. Kushmaro** (2010) *Shewanella corallii* sp. nov., a marine bacterium isolated from a Red Sea coral. *Intl. J. Syst. Evol. Micro.* 60:2293-2297.
43. **Siboni, N., Rasoulouniriana, D., Ben-Dov, E., Kramarsky-Winter, E., Sivan, A., Loya, Y., Hoegh-Guldberg, O. & A. Kushmaro** (2010) Stramenopile microorganisms: Associated with the massive coral *Favia* sp.. *Eukaryotic Microbiol.* 57:236-244.
44. **Stambler, N.** (2010) Coral symbiosis under stress. *In: Symbiosis and Stress: Cellular Origin, Life in Extreme Habitats and Astrobiology.* J. Seckbach (Ed.); Springer. pp.197-224.
45. **Steinbuck, J.V., Genin, A., Monismith, S.G., Koseff, J.R., Holzman, R. & R. G. Labiosa** (2010) Turbulent mixing in fine-scale phytoplankton layers: Observations and inferences of layer dynamics. *Cont. Shelf Res.* 30:442-455.
46. **Veal, C.J., Carmi, M., Fine, M. & O. Hoegh-Guldberg** (2010) Increasing the accuracy of surface area estimation using single wax dipping of coral fragments. *Coral Reefs* 29:893-897.
47. **Veal, C.J., Carmi, M., Dishon, G., Sharon, Y., Michael, K., Tchernov, D., Hoegh-Guldberg, O. & M. Fine** (2010) Shallow-water wave lensing in coral reefs: a physical and biological case study. *J. Exp. Biol.* 213:4304-4312.
48. **Wankel, S.D., Chen, Y., Kendall, C., Post, A.F. & A. Paytan** (2010) Sources of aerosol nitrate to the Gulf of Aqaba: Evidence from $\delta^{15}\text{N}$ and $\delta^{18}\text{O}$ of nitrate and trace metal chemistry. *Mar. Chem.* 120:90-99.

49. **Zvuloni, A., van Woesik, R. & Y. Loya** (2010) Diversity partitioning of stony corals across multiple spatial scales around Zanzibar Island, Tanzania. *PLoS One* 5:e9941.