

## Publications 2019-2020

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### The Department of Marine Biology

Alexandri, T., **Diamant, R.**, Shamir, Z.Z., **Bigal, E.**, **Scheinin, A.** and **Tchernov, D.**, 2019. Localization of acoustically tagged marine animals in under-ranked conditions. *IEEE Transactions on Mobile Computing*.

Americus, B., Austin, B., **Lotan, T.** <sup>\*\*\*</sup>, Bartholomew, J.L., Atkinson, S.D. *In vitro* and *in vivo* assays reveal that sodium affects nematocyst discharge in a Myxozoon. *Parasitology* 1-28. **BARD, BSF**

Americus, B., **Lotan, T.** <sup>\*\*\*</sup>, Bartholomew, J.L., Atkinson, S.D. A comparison of the structure and function of nematocysts in free-living and parasitic cnidarians (Myxozoa). *International Journal for Parasitology* 50: 763-769 **BARD and BSF**

Assaf Malik, **Shai Einbinder**, **Stephane Martinez**, **Dan Tchernov**, Sivan Haviv, **Ricardo Almuly**, Paul Zaslansky, Iryna Polishchuk, Boaz Pokroy, Jarosław Stolarski, **Tali Mass** (2020) Molecular and skeletal fingerprints of scleractinian coral biomineralization: From the sea surface to mesophotic depths. *Acta Biomaterialia*  
<https://doi.org/10.1016/j.actbio.2020.01.010>

Avnimelech, Y., Chamberlain, G., **Neori, A.**, Sadek, S. and Verdegem, M. (2019). Aquaculture as a Solution to Droughts. *World Aquaculture magazine*, Dec, 2019 issue, Vol. 50 (4), 55-57.

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Ben-Zvi, O., Tamir, R., Keren, N., Tchernov, D., **Berman-Frank, I.**, Kolodny, Y., Benaltabet, T., Bavli, H., Friedman, M., Glanz-Idan, N. and Traugott, H., 2020. Photophysiology of a mesophotic coral 3 years after transplantation to a shallow environment. *Coral Reefs*, pp.1-11.

Berzak, R., **Scheinin, A.**, Davidovich, N., **Regev, Y.**, Diga, R., **Tchernov, D.** and **Morick, D.**, 2019. Prevalence of nervous necrosis virus (NNV) and Streptococcus species in wild marine fish and crustaceans from the Levantine Basin, Mediterranean Sea. *Diseases of Aquatic Organisms*, 133 (1), pp.7-17.

Brand, D., Edelist, D., Goffman, O., Hadar, N., Scheinin, A. and Kerem, D., 2019. Common dolphins, common in neritic waters off southern Israel, demonstrate uncommon dietary habits. *Aquatic Conservation: Marine and Freshwater Ecosystems*

**Britstein M.**, Cerrano C, Burgsdorf I, Zoccarato L, Kenny NJ, Riesgo A, Lalar M, **Steindler L** (2020) Sponge microbiome stability during environmental acquisition of highly specific photosymbionts. *Environmental Microbiology*, 22(8):3593-3607, doi: 10.1111/1462-2920.15165.

**Burgsdorf I.**, Handley KM, **Bar-Shalom R.**, Erwin PM, **Steindler L** (2019) Life at home and on the roam: Genomic adaptations reflect the dual lifestyle of an intracellular facultative symbiont. *mSystems* 7;(4). Pii: e00057-19. Poi: 10.1128/mSystems **(Editor's pick)**

Casari, P., Lampe, L., **Martinez, S.** and Diamant, R., 2020. ThreatDetect: An Autonomous Platform to secure Marine Infrastructures. In *Advanced Technologies for Security Applications* (pp. 271-281). Springer, Dordrecht. DOI: [https://doi.org/10.1007/978-94-024-2021-0\\_24](https://doi.org/10.1007/978-94-024-2021-0_24)

Chang, Z., **Neori, A.**, He, Y., Li, J., Qiao, L., Preston, S., Liu, P., Li, J. 2020. Development and current state of seawater shrimp farming, with an emphasis on integrated multi-trophic pondaquaculture farms, in China – a review. *Reviews in Aquaculture*, 1–15. doi: 10.1111/raq.12457

Chang, Z.Q., **Neori, A.**, He, Y.Y., Li, J.T., Chen, P., Preston, S.I., Liu, P., and Li, J. (2020). The development and current state of seawater shrimp farming, with an emphasis on integrated multi-trophic pond Aquaculture farms, in China- a review. *Rev. Aquacult.*, <https://doi-org.ezproxy.haifa.ac.il/10.1111/raq.12457>, 15 pages.

Chang-Yu Sun, László Gránásy, Cayla A. Stifler, Tal Zaquin, Rajesh V. Chopdekar, Nobumichi Tamura, James C. Weaver, Jun A. Y. Zhang, Stefano Goffredo, Giuseppe Falini, Matthew A. Marcus, Tamás Pusztai, Vanessa Schoeppler, **Tali Mass**, Pupa U. P. A. Gilbert (2020). Crystal nucleation and growth of spherulites demonstrated by coral skeletons and phase-field simulations. *Acta Biomaterialia* <https://doi.org/10.1016/j.actbio.2020.06.027>

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**Federica Scucchia**, **Hagai Nativ**, **Maayan Neder**, Gretchen Goodbody-Gringley, **Tali Mass** (2020) Physiological adaptation of *Stylophora pistillata* larvae across a depth gradient. *Frontiers in Marine Science*, 7(13)

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- Gutner-Hoch, E., Martins, R., Maia, F., Oliveira, T., **Shpigel, M.**, Weis, M., Tedim, J., Benayahu, Y. (2019). Toxicity of engineered micro- and nanomaterials with antifouling properties to the brine shrimp *Artemia salina* and embryonic stages of the sea urchin *Paracentrotus lividus*. *ENVPOL* 251;530-537. <https://doi.org/10.1016/j.envpol.2019.05.03>
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