

## Biology Dept 2013 publications

1. Leis, J.M., Caselle, J.E., Bradbury, I.R., Kristiansen, T., Llopiz, J.K., Miller, M.J., O'Connor, M.I., Paris, C.B., Shanks, A.L., Sogard, S.M., Swearer, S.E., Trembl, E.A., Vetter, R.D. & Warner, R.R. Does fish larval dispersal differ between high and low latitudes?. *Proceedings of the Royal Society of London Series B-Biological Sciences* -(2013).
2. King, S.L., Sayigh, L.S., Wells, R.S., Fellner, W. & Janik, V.M. Vocal copying of individually distinctive signature whistles in bottlenose dolphins. *Proceedings of the Royal Society of London Series B-Biological Sciences* -(2013).
3. Nelson, D.R., Goldstone, J.V. & Stegeman, J.J. The cytochrome P450 genesis locus: the origin and evolution of animal cytochrome P450s. *Philosophical Transactions of the Royal Society of London Series B-Biological Sciences* -(2013).
4. Ji, R., Stegert, C. & Davis, C.S. Sensitivity of copepod populations to bottom-up and top-down forcing: a modeling study in the Gulf of Maine region. *Journal of Plankton Research* 66-79(2013).
5. Kershenbaum, A., Sayigh, L.S. & Janik, V.M. The Encoding of Individual Identity in Dolphin Signature Whistles: How Much Information Is Needed?. *PLoS One* e77671-e77671(2013).
6. Kaplan, M.B., Mooney, T.A., McCorkle, D.C. & Cohen, A.L. Adverse Effects of Ocean Acidification on Early Development of Squid (*Doryteuthis pealeii*). *PLoS One* e63714-e63714(2013).
7. Feary, D.A., Burt, J.A., Bauman, A.G., Al Hazeem, S., Abdel-Moati, M.A., Al-Khalifa, K.A., Anderson, D.M., Amos, C., Baker, A., Bartholomew, A., Bento, R., Cavalcante, G.H., Chen, C.A., Coles, S.L., Dab, K., Fowler, A.M., George, D., Grandcourt, E., Hill, R., John, D.M., Jones, D.A., Keshavmurthy, S., Mahmoud, H., Tapeh, M.M.O., Mostafavi, P.G., Naser, H., Pichon, M., Purkis, S., Riegl, B., Samimi-Namin, K., Sheppard, C., Samiei, J.V., Voolstra, C.R. & Wiedenmann, J. Critical research needs for identifying future changes in Gulf coral reef ecosystems. *Marine Pollution Bulletin* 406-416(2013).
8. Williams, L.M., Timme-Laragy, A.R., Goldstone, J.V., McArthur, A.G., Stegeman, J.J., Smolowitz, R.M. & Hahn, M.E. Developmental Expression of the Nfe2-Related Factor (Nrf) Transcription Factor Family in the Zebrafish, *Danio rerio*. *PLoS One* e79574-e79574(2013).
9. Giles, E.C., Saenz-Agudelo, P., Berumen, M.L. & Ravasi, T. Novel polymorphic microsatellite markers developed for a common reef sponge, *Stylissa carteri*. *Marine Biodiversity* 237-241(2013).
10. Yucel, M., Sievert, S.M., Vetriani, C., Foustoukos, D.I., Giovannelli, D. & Le Bris, N. Eco-geochemical dynamics of a shallow-water hydrothermal vent system at Milos Island, Aegean Sea (Eastern Mediterranean). *Chemical Geology* 11-20(2013).
11. Chan, K.Y.K., Jiang, H. & Padilla, D.K. Swimming Speed of Larval Snail Does Not Correlate with Size and Ciliary Beat Frequency. *PLoS One* e82764-e82764(2013).
12. Duarte, C.M., Pitt, K.A., Lucas, C.H., Purcell, J.E., Uye, S., Robinson, K., Brotz, L., Decker, M.B., Sutherland, K.R., Malej, A., Madin, L., Mianzan, H., Gili, J., Fuentes, V., Atienza, D., Pages, F., Breitbart, D., Malek, J., Graham, W.M. & Condon, R.H. Is global ocean sprawl a cause of jellyfish blooms?. *Frontiers in Ecology and the Environment* 91-97(2013).
13. de Quiros, Y.B., Seewald, J.S., Sylva, S.P., Greer, B., Niemeyer, M., Bogomolni, A.L. & Moore, M.J. Compositional Discrimination of Decompression and Decomposition Gas Bubbles in Bycaught Seals and Dolphins. *PLoS One* e83994-e83994(2013).
14. Shyu, E., Pardini, E.A., Knight, T.M. & Caswell, H. A seasonal, density-dependent model for the management of an invasive weed. *Ecological Applications* 1893-1905(2013).
15. Gyory, J., Pineda, J. & Solow, A. Turbidity triggers larval release by the intertidal barnacle *Semibalanus balanoides*. *Marine Ecology Progress Series* 141-(2013).
16. Reitzel, A.M., Chu, T., Edquist, S., Genovese, C., Church, C., Tarrant, A.M. & Finnerty, J.R. Physiological and developmental responses to temperature by the sea anemone *Nematostella vectensis*. *Marine Ecology Progress Series* 115-130(2013).
17. Wheeler, J.D., Helfrich, K.R., Anderson, E.J., McGann, B., Staats, P., Wargula, A.E., Wilt, K. & Mullineaux, L.S. Upward swimming of competent oyster larvae *Crassostrea virginica* persists in highly

- turbulent flow as detected by PIV flow subtraction. *Marine Ecology Progress Series* 171-185(2013).
18. Gilmore, T.D., Tarrant, A.M. & Finnerty, J.R. A report from the second *Nematostella vectensis* research conference. *Development Genes and Evolution* 207-211(2013).
19. Brothers, L.L., Van Dover, C.L., German, C.R., Kaiser, C.L., Yoerger, D.R., Ruppel, C.D., Lobecker, E., Skarke, A.D. & Wagner, J.K.S. Evidence for extensive methane venting on the southeastern U.S. Atlantic margin. *Geology* 807-810(2013).
20. Timme-Laragy, A.R., Goldstone, J.V., Imhoff, B.R., Stegeman, J.J., Hahn, M.E. & Hansen, J.M. Glutathione redox dynamics and expression of glutathione-related genes in the developing embryo. *Free Radical Biology and Medicine* 89-101(2013).
21. Almany, G.R., Hamilton, R.J., Bode, M., Matawai, M., Potuku, T., Saenz-Agudelo, P., Planes, S., Berumen, M.L., Rhodes, K.L., Thorrold, S.R., Russ, G.R. & Jones, G.P. Dispersal of Grouper Larvae Drives Local Resource Sharing in a Coral Reef Fishery. *Current Biology* 626-630(2013).
22. Wisecaver, J.H., Brosnahan, M.L. & Hackett, J.D. Horizontal Gene Transfer is a Significant Driver of Gene Innovation in Dinoflagellates. *Genome Biology and Evolution* 2368-2381(2013).
23. Narwani, A., Alexandrou, M.A., Oakley, T.H., Carroll, I.T. & Cardinale, B.J. Experimental evidence that evolutionary relatedness does not affect the ecological mechanisms of coexistence in freshwater green algae. *Ecology Letters* 1373-1381(2013).
24. Hunt, K.E., Moore, M.J., Rolland, R.M., Kellar, N.M., Hall, A.J., Kershaw, J., Raverty, S.A., Davis, C.E., Yeates, L.C., Fauquier, D.A., Rowles, T.K. & Kraus, S.D. Overcoming the challenges of studying conservation physiology in large whales: a review of available methods. *Conservation Physiology* cot006-(2013).
25. Hobbs, J.A., Frisch, A.J., Ford, B.M., Thums, M., Saenz-Agudelo, P., Furby, K.A. & Berumen, M.L. Taxonomic, Spatial and Temporal Patterns of Bleaching in Anemones Inhabited by Anemonefishes. *PLoS One* e70966-e70966(2013).
26. Caswell, H. Sensitivity analysis of discrete Markov chains via matrix calculus. *Linear Algebra and its Applications* 1727-1745(2013).
27. Aluru, N., Deak, K.L., Jenny, M.J. & Hahn, M.E. Developmental exposure to valproic acid alters the expression of microRNAs involved in neurodevelopment in zebrafish. *Neurotoxicology and teratology* 46-58(2013).
28. Beaulieu, S.E., Baker, E.T., German, C.R. & Maffei, A. An authoritative global database for active submarine hydrothermal vent fields. *Geochemistry Geophysics Geosystems* 4892-4905(2013).
29. Borda, E., Kudenov, J.D., Chevallon, P., Blake, J.A., Desbruyeres, D., Fabri, M., Hourdez, S., Pleijel, F., Shank, T.M., Wilson, N.G., Schulze, A. & Rouse, G.W. Cryptic species of Archinome (Annelida: Amphinomida) from vents and seeps. *Proceedings of the Royal Society of London Series B-Biological Sciences* 20131876-20131876(2013).
30. Reed, T.E., Grotan, V., Jenouvrier, S., Saether, B. & Visser, M.E. Population Growth in a Wild Bird Is Buffered Against Phenological Mismatch. *Science* 488-491(2013).
31. Beaulieu, M., Thierry, A., González-Acuña, D. & Polito, M.J. Integrating oxidative ecology into conservation physiology. *Conservation Physiology* -(2013).
32. Johnson, M.D., Stoecker, D.K. & Marshall, H.G. Seasonal dynamics of *Mesodinium rubrum* in Chesapeake Bay. *Journal of Plankton Research* -(2013).
33. Berumen, M.L., Hoey, A.S., Bass, W.H., Bouwmeester, J., Catania, D., Cochran, J.E.M., Khalil, M.T., Miyake, S., Mughal, M.R., Spaet, J.L.Y. & Saenz-Agudelo, P. The status of coral reef ecology research in the Red Sea. *Coral Reefs* 737-748(2013).
34. Drenkard, E.J., Cohen, A.L., McCorkle, D.C., de Putron, S.J., Starczak, V.R. & Zicht, A.E. Calcification by juvenile corals under heterotrophy and elevated CO<sub>2</sub>. *Coral Reefs* 727-735(2013).
35. Mooney, T.A., Yamato, M. & Branstetter, B.K. Hearing in Cetaceans: from Natural History to Experimental Biology. *Advances in Marine Biology* 197-246(2013).
36. Roy, A., Frisch, A.J., Syms, C., Thorrold, S.R. & Jones, G.P. Retention of a transgenerational marker

- ((137)Barium) in tissues of adult female anemonefish and assessment of physiological stress. *Environmental Biology of Fishes* 459-466(2013).
- 37.Lai, Z., Chen, C., Beardsley, R., Lin, H., Ji, R., Sasaki, J. & Lin, J. Initial spread of Cs-137 from the Fukushima Dai-ichi Nuclear Power Plant over the Japan continental shelf: a study using a high-resolution, global-coastal nested ocean model. *Biogeosciences* 5439-5449(2013).
- 38.Banguera-Hinestroza, E., Saenz-Agudelo, P., Bayer, T., Berumen, M.L. & Voolstra, C.R. Characterization of new microsatellite loci for population genetic studies in the Smooth Cauliflower Coral (*Stylophora* sp.). *Conservation Genetics Resources* 561-563(2013).
- 39.Caswell, H. & Salguero-Gomez, R. Age, stage and senescence in plants. *Journal of Ecology* 585-595(2013).
- 40.Moore, M.J., der Hoop, J., Barco, S.G., Costidis, A.M., Gulland, F.M., Jepson, P.D., Moore, K.T., Raverty, S. & McLellan, W.A. Criteria and case definitions for serious injury and death of pinnipeds and cetaceans caused by anthropogenic trauma. *Diseases of Aquatic Organisms* 229-264(2013).
- 41.Odio, C., Holzman, S.A., Denison, M.S., Fracalvieri, D., Bonati, L., Franks, D.G., Hahn, M.E. & Powell, W.H. Specific Ligand Binding Domain Residues Confer Low Dioxin Responsiveness to AHR1 beta of *Xenopus laevis*. *Biochemistry* 1746-1754(2013).
- 42.McMahon, K.W., Hamady, L.L. & Thorrold, S.R. A review of ecogeochemistry approaches to estimating movements of marine animals. *Limnology and Oceanography* 697-714(2013).
- 43.Moore, M., Andrews, R., Austin, T., Bailey, J., Costidis, A., George, C., Jackson, K., Pitchford, T., Landry, S., Ligon, A., McLellan, W., Morin, D., Smith, J., Rotstein, D., Rowles, T., Slay, C. & Walsh, M. Rope trauma, sedation, disentanglement, and monitoring-tag associated lesions in a terminally entangled North Atlantic right whale (*Eubalaena glacialis*). *Marine Mammal Science* E98-E113(2013).
- 44.Rouco, M., Branson, O., Lebrato, M. & Iglesias-Rodriguez, M.D. The effect of nitrate and phosphate availability on *Emiliania huxleyi* (NZEH) physiology under different CO<sub>2</sub> scenarios. *Frontiers in Microbiology* 155-155(2013).
- 45.Nanninga, G., Mughal, M., Saenz-Agudelo, P., Bayer, T. & Berumen, M. Development of 35 novel microsatellite markers for the two-band anemonefish *Amphiprion bicinctus*. *Conservation Genetics Resources* 515-518(2013).
- 46.Teske, A., Biddle, J.F., Edgcomb, V.P. & Schippers, A. Deep subsurface microbiology: a guide to the research topic papers. *Frontiers in Microbiology* 122-122(2013).
- 47.White, A. & Dyhrman, S. The marine phosphorus cycle. *Frontiers in Microbiology* 105-105(2013).
- 48.Sayigh, L., Quick, N., Hastie, G. & Tyack, P. Repeated call types in short-finned pilot whales, *Globicephala macrorhynchus*. *Marine Mammal Science* 312-324(2013).
- 49.Kubota, A., Yoneda, K., Tanabe, S. & Iwata, H. Sex differences in the accumulation of chlorinated dioxins in the cormorant (*Phalacrocorax carbo*): Implication of hepatic sequestration in the maternal transfer. *Environmental Pollution* 300-305(2013).
- 50.van der Meer, M.H., Gardner, M.G., Berumen, M.L., Hobbs, J.A. & van Herwerden, L. Identification of seventeen microsatellite loci for conservation genetic studies of the endemic wrasse *Coris bulbifrons*. *Conservation Genetics Resources* 363-366(2013).
- 51.Tanner, S.E., Reis-Santos, P., Vasconcelos, R.P., Thorrold, S.R. & Cabral, H.N. Population connectivity of *Solea solea* and *Solea senegalensis* over time. *Journal of Sea Research* 82-88(2013).
- 52.Grabenstatter, J., Mehay, S., McIntyre-Wressnig, A., Giner, J., Edgcomb, V.P., Beaudoin, D.J., Bernhard, J.M. & Summons, R.E. Identification of 24-n-propylidenecholesterol in a member of the Foraminifera. *Organic Geochemistry* 145-151(2013).
- 53.Moeller, H.V. & Neubert, M.G. Habitat damage, marine reserves, and the value of spatial management. *Ecological applications : a publication of the Ecological Society of America* 959-971(2013).
- 54.Mullineaux, L.S., McGillicuddy, D.J., Mills, S.W., Kosnyrev, V.K., Thurnherr, A.M., Ledwell, J.R. & Lavelle, J.W. Active positioning of vent larvae at a mid-ocean ridge. *Deep-Sea Research Part II-Topical Studies in Oceanography* 46-57(2013).

- 55.Radke, E.G., Grattan, L.M., Cook, R.L., Smith, T.B., Anderson, D.M. & Morris, J.G. Ciguatera Incidence in the US Virgin Islands Has Not Increased over a 30-Year Time Period Despite Rising Seawater Temperatures. *American Journal of Tropical Medicine and Hygiene* 908-913(2013).
- 56.Rose, J.M., Fitzpatrick, E., Wang, A., Gast, R.J. & Caron, D.A. Low temperature constrains growth rates but not short-term ingestion rates of Antarctic ciliates. *Polar Biology* 645-659(2013).
- 57.Reed, T.E., Jenouvrier, S. & Visser, M.E. Phenological mismatch strongly affects individual fitness but not population demography in a woodland passerine. *Journal of Animal Ecology* 131-144(2013).
- 58.Wuchter, C., Banning, E., Mincer, T.J., Drenzek, N.J. & Coolen, M.J.L. Microbial diversity and methanogenic activity of Antrim Shale formation waters from recently fractured wells. *Frontiers in Microbiology* 367-367(2013).
- 59.Furby, K.A., Bouwmeester, J. & Berumen, M.L. Susceptibility of central Red Sea corals during a major bleaching event. *Coral Reefs* 505-513(2013).
- 60.Hackett, J.D., Wisecaver, J.H., Brosnahan, M.L., Kulis, D.M., Anderson, D.M., Bhattacharya, D., Plumley, F.G. & Erdner, D.L. Evolution of saxitoxin synthesis in cyanobacteria and dinoflagellates. *Molecular Biology and Evolution* 70-78(2013).
- 61.van der Hoop, J.M., Moore, M.J., Barco, S.G., Cole, T.V.N., Daoust, P., Henry, A.G., Mcalpine, D.F., McLellan, W.A., Wimmer, T. & Solow, A.R. Assessment of Management to Mitigate Anthropogenic Effects on Large Whales. *Conservation Biology* 121-133(2013).
- 62.Read, B.A., Kegel, J., Klute, M.J., Kuo, A., Lefebvre, S.C., Maumus, F., Mayer, C., Miller, J., Monier, A., Salamov, A., Young, J., Aguilar, M., Claverie, J., Frickenhaus, S., Gonzalez, K., Herman, E.K., Lin, Y., Napier, J., Ogata, H., Sarno, A.F., Shmutz, J., Schroeder, D., de Vargas, C., Verret, F., von Dassow, P., Valentin, K., Van de Peer, Y., Wheeler, G., Dacks, J.B., Delwiche, C.F., Dyhrman, S.T., Gloeckner, G., John, U., Richards, T., Worden, A.Z., Zhang, X., Grigoriev, I.V. & Emiliania Huxleyi Annotation, Pan genome of the phytoplankton Emiliania underpins its global distribution. *Nature* 209-213(2013).
- 63.Brasso, R.L. & Polito, M.J. Trophic calculations reveal the mechanism of population-level variation in mercury concentrations between marine ecosystems: Case studies of two polar seabirds. *Marine Pollution Bulletin* 244-249(2013).
- 64.Cagua, E.F., Berumen, M.L. & Tyler, E.H.M. Topography and biological noise determine acoustic detectability on coral reefs. *Coral Reefs* 1123-1134(2013).
- 65.Wagner, J.K.S., McEntee, M.H., Brothers, L.L., German, C.R., Kaiser, C.L., Yoerger, D.R. & Van Dover, C.L. Cold-seep habitat mapping: High-resolution spatial characterization of the Blake Ridge Diapir seep field. *Deep-Sea Research Part II-Topical Studies in Oceanography* 183-188(2013).
- 66.Farmahin, R., Manning, G.E., Crump, D., Wu, D., Mundy, L.J., Jones, S.P., Hahn, M.E., Karchner, S.I., Giesy, J.P., Bursian, S.J., Zwiernik, M.J., Fredricks, T.B. & Kennedy, S.W. Amino Acid Sequence of the Ligand-Binding Domain of the Aryl Hydrocarbon Receptor 1 Predicts Sensitivity of Wild Birds to Effects of Dioxin-Like Compounds. *Toxicological Sciences* 139-152(2013).
- 67.Baumgartner, M.F., Lysiak, N.S.J., Esch, H.C., Zerbini, A.N., Berchok, C.L. & Clapham, P.J. Associations between North Pacific right whales and their zooplanktonic prey in the southeastern Bering Sea. *Marine Ecology Progress Series* 267-284(2013).
- 68.Tornabene, L., Ahmadi, G.N., Berumen, M.L., Smith, D.J., Jompa, J. & Pezold, F. Evolution of microhabitat association and morphology in a diverse group of cryptobenthic coral reef fishes (Teleostei: Gobiidae: Eviota). *Molecular Phylogenetics and Evolution* 391-400(2013).
- 69.Wenzel, F.W., Polloni, P.T., Craddock, J.E., Gannon, D.P., Nicolas, J.R., Read, A.J. & Rosel, P.E. Food habits of Sowerby's beaked whales (*Mesoplodon bidens*) taken in the pelagic drift gillnet fishery of the western North Atlantic. *Fishery Bulletin* 381-389(2013).
- 70.Zanette, J., Jenny, M.J., Goldstone, J.V., Parente, T., Woodin, B.R., Bainy, A.C. & Stegeman, J.J. Identification and expression of multiple CYP1-like and CYP3-like genes in the bivalve mollusk *Mytilus edulis*. *Aquatic Toxicology* 101-112(2013).
- 71.Thuruthipallil, L.M., Kubota, A., Kim, E. & Iwata, H. Alternative In Vitro Approach for Assessing AHR-Mediated CYP1A Induction by Dioxins in Wild Cormorant (*Phalacrocorax carbo*) Population.

*Environmental Science & Technology* 6656-6663(2013).

72. Barco, A., Evans, J., Schembri, P.J., Taviani, M. & Oliverio, M. Testing the applicability of DNA barcoding for Mediterranean species of top-shells (Gastropoda, Trochidae, Gibbula s.l.). *Marine Biology Research* 785-793(2013).

73. Sanfilippo, R., Vertino, A., Rosso, A., Beuck, L., Freiwald, A. & Taviani, M. Serpula aggregates and their role in deep-sea coral communities in the southern Adriatic Sea. *Facies* 663-677(2013).

74. Alpermann, T.J., Mee, J.K.L. & Berumen, M.L. First record of the blackfin coral goby, *Paragobiodon lacunicolus* (Kendall and Goldsborough, 1911), from the Red Sea. *Journal of Applied Ichthyology* 1361-1363(2013).

75. Baumgartner, M.F., Fratantoni, D.M., Hurst, T.P., Brown, M.W., Cole, T.V., Van Parijs, S.M. & Johnson, M. Real-time reporting of baleen whale passive acoustic detections from ocean gliders. *Journal of the Acoustical Society of America* 1814-1823(2013).

76. Bainy, A.C.D., Kubota, A., Goldstone, J.V., Lille-Langoy, R., Karchner, S.I., Celandier, M.C., Hahn, M.E., Goksoyr, A. & Stegeman, J.J. Functional characterization of a full length pregnane X receptor, expression in vivo, and identification of PXR alleles, in Zebrafish (*Danio rerio*). *Aquatic Toxicology* 447-457(2013).

77. Reitzel, A.M., Tarrant, A.M. & Levy, O. Circadian Clocks in the Cnidaria: Environmental Entrainment, Molecular Regulation, and Organismal Outputs. *Integrative and Comparative Biology* -(2013).

78. DiBattista, J.D., Berumen, M.L., Gaither, M.R., Rocha, L.A., Eble, J.A., Choat, J.H., Craig, M.T., Skillings, D.J. & Bowen, B.W. After continents divide: comparative phylogeography of reef fishes from the Red Sea and Indian Ocean. *Journal of Biogeography* 1170-1181(2013).

79. Tanner, S.E., Reis-Santos, P., Vasconcelos, R.P., Fonseca, V.F., Franca, S., Cabral, H.N. & Thorrold, S.R. Does otolith geochemistry record ambient environmental conditions in a temperate tidal estuary?. *Journal of Experimental Marine Biology and Ecology* 7-15(2013).

80. Bonnet, N.Y.K., Rocha, R.M. & Carman, M.R. Ascidiidae Herdman, 1882 (Tunicata: Ascidiacea) on the Pacific coast of Panama. *Zootaxa* 351-364(2013).

81. Trevisiol, A., Bergamasco, A., Montagna, P., Sprovieri, M. & Taviani, M. Antarctic seawater temperature evaluation based on stable isotope measurements on *Adamussium colbecki* shells: kinetic effects vs. isotopic equilibrium. *Journal of Marine Systems* 43-55(2013).

82. Duffy, J.E., Amaral-Zettler, L.A., Fautin, D.G., Paulay, G., Rynearson, T.A., Sosik, H.M. & Stachowicz, J.J. Envisioning a Marine Biodiversity Observation Network. *Bioscience* 350-361(2013).

83. Janik, V.M. & Sayigh, L.S. Communication in bottlenose dolphins: 50 years of signature whistle research. *Journal of Comparative Physiology A-Sensory Neural and Behavioral Physiology* 479-489(2013).

84. Bolukbasi, B., Berente, N., Cutcher-Gershenfeld, J., Dechurch, L., Flint, C., Haberman, M., King, J.L., Knight, E., Lawrence, B., Masella, E., Mcelroy, C., Mittleman, B., Nolan, M., Radik, M., Shin, N., Thompson, C.A., Winter, S., Zaslavsky, I., Allison, M.L., Arctur, D., Arrigo, J., Aufdenkampe, A.K., Bass, J., Crowell, J., Daniels, M., Diggs, S., Duffy, C., Gil, Y., Gomez, B., Graves, S., Hazen, R., Hsu, L., Kinkade, D., Lehnert, K., Marone, C., Middleton, D., Noren, A., Pearthree, G., Ramamurthy, M., Robinson, E., Percivall, G., Richard, S., Suarez, C. & Walker, D. Open Data: Crediting a Culture of Cooperation. *Science* 1041-1042(2013).

85. Jensen, F.H., Rocco, A., Mansur, R.M., Smith, B.D., Janik, V.M. & Madsen, P.T. Clicking in Shallow Rivers: Short-Range Echolocation of Irrawaddy and Ganges River Dolphins in a Shallow, Acoustically Complex Habitat. *PLoS One* e59284-e59284(2013).

86. Khalil, M.T., Cochran, J.E.M. & Berumen, M.L. The abundance of herbivorous fish on an inshore Red Sea reef following a mass coral bleaching event. *Environmental Biology of Fishes* 1065-1072(2013).

87. Polito, M.J., Reiss, C.S., Trivelpiece, W.Z., Patterson, W.P. & Emslie, S.D. Stable isotopes identify an ontogenetic niche expansion in Antarctic krill (*Euphausia superba*) from the South Shetland Islands, Antarctica. *Marine Biology* 1311-1323(2013).

88. Skjoldal, H.R., Wiebe, P.H., Postel, L., Knutsen, T., Kaartvedt, S. & Sameoto, D. Intercomparison of

- zooplankton (net) sampling systems: results from the ICES/GLOBEC sea-going workshop. *Progress in Oceanography* 1-42(2013).
- 89.McMahon, K.W., Hamady, L.L. & Thorrold, S.R. Ocean Ecogeochemistry – A Review. *Oceanography and Marine Biology: An Annual Review, Volume 51* 327-376(2013).
- 90.Rinke, C., Schwientek, P., Sczyrba, A., Ivanova, N.N., Anderson, I.J., Cheng, J., Darling, A., Malfatti, S., Swan, B.K., Gies, E.A., Dodsworth, J.A., Hedlund, B.P., Tsiamis, G., Sievert, S.M., Liu, W., Eisen, J.A., Hallam, S.J., Kyrpides, N.C., Stepanauskas, R., Rubin, E.M., Hugenholtz, P. & Woyke, T. Insights into the phylogeny and coding potential of microbial dark matter. *Nature* 431-437(2013).
- 91.Harrison, H.B., Saenz-Agudelo, P., Planes, S., Jones, G.P. & Berumen, M.L. On minimizing assignment errors and the trade-off between false positives and negatives in parentage analysis. *Molecular Ecology* 5738-5742(2013).
- 92.Campbell, L., Henrichs, D.W., Olson, R.J. & Sosik, H.M. Continuous automated imaging-in-flow cytometry for detection and early warning of *Karenia brevis* blooms in the Gulf of Mexico. *Environmental Science and Pollution Research* 6896-6902(2013).
- 93.Pearl, M.R., Swanstrom, J.A., Bruckman, L.S., Richardson, T.L., Shaw, T.J., Sosik, H.M. & Myrick, M.L. Taxonomic Classification of Phytoplankton with Multivariate Optical Computing, Part III: Demonstration. *Applied Spectroscopy* 640-647(2013).
- 94.Fracalvieri, D., Soshilov, A.A., Karchner, S.I., Franks, D.G., Pandini, A., Bonati, L., Hahn, M.E. & Denison, M.S. Comparative Analysis of Homology Models of the Ah Receptor Ligand Binding Domain: Verification of Structure-Function Predictions by Site-Directed Mutagenesis of a Nonfunctional Receptor. *Biochemistry* 714-725(2013).
- 95.Greene, C.H., Meyer-Gutbrod, E., Monger, B.C., McGarry, L.P., Pershing, A.J., Belkin, I.M., Fratantoni, P.S., Mountain, D.G., Pickart, R.S., Proshutinsky, A., Ji, R., Bisagni, J.J., Hakkinen, S.M.A., Haidvogel, D.B., Wang, J., Head, E., Smith, P., Reid, P.C. & Conversi, A. Remote climate forcing of decadal-scale regime shifts in Northwest Atlantic shelf ecosystems. *Limnology and Oceanography* 803-816(2013).
- 96.Batchelder, H.P., Daly, K.L., Davis, C.S., Ji, R., Ohman, M.D., Peterson, W.T. & Runge, J.A. Climate Impacts on Zooplankton Population Dynamics in Coastal Marine Ecosystems. *Oceanography* 34-51(2013).
- 97.Harrison, H.B., Saenz-Agudelo, P., Planes, S., Jones, G.P. & Berumen, M.L. Relative accuracy of three common methods of parentage analysis in natural populations. *Molecular Ecology* 1158-1170(2013).
- 98.Amemiya, C.T., Alfoeldi, J., Lee, A.P., Fan, S., Philippe, H., MacCallum, I., Braasch, I., Manousaki, T., Schneider, I., Rohner, N., Organ, C., Chalopin, D., Smith, J.J., Robinson, M., Dorrington, R.A., Gerdol, M., Aken, B., Biscotti, M.A., Barucca, M., Baurain, D., Berlin, A.M., Blatch, G.L., Buonocore, F., Burmester, T., Campbell, M.S., Canapa, A., Cannon, J.P., Christoffels, A., De Moro, G., Edkins, A.L., Fan, L., Fausto, A.M., Feiner, N., Forconi, M., Gamielien, J., Gnerre, S., Gnrke, A., Goldstone, J.V., Haerty, W., Hahn, M.E., Hesse, U., Hoffmann, S., Johnson, J., Karchner, S.I., Kuraku, S., Lara, M., Levin, J.Z., Litman, G.W., Mauceli, E., Miyake, T., Mueller, M.G., Nelson, D.R., Nitsche, A., Olmo, E., Ota, T., Pallavicini, A., Panji, S., Picone, B., Ponting, C.P., Prohaska, S.J., Przybylski, D., Saha, N.R., Ravi, V., Ribeiro, F.J., Sauka-Spengler, T., Scapigliati, G., Searle, S.M.J., Sharpe, T., Simakov, O., Stadler, P.F., Stegeman, J.J., Sumiyama, K., Tabbaa, D., Tafer, H., Turner-Maier, J., van Heusden, P., White, S., Williams, L., Yandell, M., Brinkmann, H., Volff, J., Tabin, C.J., Shubin, N., Scharl, M., Jaffe, D.B., Postlethwait, J.H., Venkatesh, B., Di Palma, F., Lander, E.S., Meyer, A. & Lindblad-Toh, K. The African coelacanth genome provides insights into tetrapod evolution. *Nature* 311-316(2013).
- 99.Condon, R.H., Duarte, C.M., Pitt, K.A., Robinson, K.L., Lucas, C.H., Sutherland, K.R., Mianzan, H.W., Bogeberg, M., Purcell, J.E., Decker, M.B., Uye, S., Madin, L.P., Brodeur, R.D., Haddock, S.H.D., Malej, A., Parry, G.D., Eriksen, E., Quinones, J., Acha, M., Harvey, M., Arthur, J.M. & Graham, W.M. Recurrent jellyfish blooms are a consequence of global oscillations. *Proceedings of the National Academy of Sciences of the United States of America* 1000-1005(2013).
- 100.McMahon, K.W., Hamady, L.L. & Thorrold, S.R. Ocean Ecogeochemistry: a Review. *Oceanography and Marine Biology* 327-373(2013).

101. Moore, M.J. Welfare of whales by-caught in fishing gear or struck by vessels. *Animal Welfare* 117-121(2013).
102. Llopiz, J.K. Latitudinal and taxonomic patterns in the feeding ecologies of fish larvae: A literature synthesis. *Journal of Marine Systems* 69-77(2013).
103. Pineda, J., Starczak, V., Tarrant, A., Blythe, J., Davis, K., Farrar, T., Berumen, M. & da Silva, J.C.B. Two spatial scales in a bleaching event: Corals from the mildest and the most extreme thermal environments escape mortality. *Limnology and Oceanography* 1531-1545(2013).
104. Mills, S.W., Mullineaux, L.S., Beaulieu, S.E. & Adams, D.K. Persistent effects of disturbance on larval patterns in the plankton after an eruption on the East Pacific Rise. *Marine Ecology Progress Series* 67-76(2013).
105. Ji, R., Jin, M. & Varpe, O. Sea ice phenology and timing of primary production pulses in the Arctic Ocean. *Global Change Biology* 734-741(2013).
106. Noble, M.M., van Laake, G., Berumen, M.L. & Fulton, C.J. Community Change within a Caribbean Coral Reef Marine Protected Area following Two Decades of Local Management. *PLoS One* e54069-e54069(2013).
107. Roder, C., Berumen, M.L., Bouwmeester, J., Papathanassiou, E., Al-Suwailem, A. & Voolstra, C.R. First biological measurements of deep-sea corals from the Red Sea. *Scientific Reports* 2802-2802(2013).
108. Tarrant, A.M. & Reitzel, A.M. Introduction to the symposium--keeping time during evolution: conservation and innovation of the circadian clock. *Integrative and Comparative Biology* 89-92(2013).
109. Eagle, R.A., Eiler, J.M., Tripathi, A.K., Ries, J.B., Freitas, P.S., Hiebenthal, C., Wanamaker, A.D., Taviani, M., Elliot, M., Marensi, S., Nakamura, K., Ramirez, P. & Roy, K. The influence of temperature and seawater carbonate saturation state on C-13-O-18 bond ordering in bivalve mollusks. *Biogeosciences* 4591-4606(2013).
110. Velo-Suarez, L., Brosnahan, M.L., Anderson, D.M. & McGillicuddy, D.J. A Quantitative Assessment of the Role of the Parasite *Amoebophrya* in the Termination of *Alexandrium fundyense* Blooms within a Small Coastal Embayment. *PLoS One* e81150-e81150(2013).
111. Wurch, L.L., Gobler, C.J. & Dyhrman, S.T. Expression of a xanthine and phosphate transporter in cultures and field populations of the harmful alga *Aureococcus anophagefferens*: tracking nutritional deficiency during brown tides. *Environmental Microbiology* -(2013).
112. Janik, V.M., King, S.L., Sayigh, L.S. & Wells, R.S. Identifying signature whistles from recordings of groups of unrestrained bottlenose dolphins (*Tursiops truncatus*). *Marine Mammal Science* 109-122(2013).
113. Lever, M.A., Rouxel, O., Alt, J.C., Shimizu, N., Ono, S., Coggon, R.M., Shanks, W.C., Lapham, L., Elvert, M., Prieto-Mollar, X., Hinrichs, K., Inagaki, F. & Teske, A. Evidence for Microbial Carbon and Sulfur Cycling in Deeply Buried Ridge Flank Basalt. *Science* 1305-1308(2013).
114. Hansen, P.J., Nielsen, L.T., Johnson, M., Berge, T. & Flynn, K.R. Acquired phototrophy in *Mesodinium* and *Dinophysis* – A review of cellular organization, prey selectivity, nutrient uptake and bioenergetics. *Harmful Algae* 126-139(2013).
115. Maas, A.E., Blanco-Bercial, L. & Lawson, G.L. Reexamination of the Species Assignment of *Diacavolinia* Pteropods Using DNA Barcoding. *PLoS One* e53889-e53889(2013).
116. Taylor, J.K.D., Mandelman, J.W., McLellan, W.A., Moore, M.J., Skomal, G.B., Rotstein, D.S. & Kraus, S.D. Shark predation on North Atlantic right whales (*Eubalaena glacialis*) in the southeastern United States calving ground. *Marine Mammal Science* 204-212(2013).
117. Fay, S.A., Gast, R.J. & Sanders, R.W. Linking bacterivory and phyletic diversity of protists with a marker gene survey and experimental feeding with BrdU-labeled bacteria. *Aquatic Microbial Ecology* 141-153(2013).
118. Taviani, M., Angeletti, L., Ceregato, A., Fogliani, F., Froggia, C. & Trincardi, F. The Gela Basin pockmark field in the strait of Sicily (Mediterranean Sea): chemosymbiotic faunal and carbonate signatures of postglacial to modern cold seepage. *Biogeosciences* 4653-4671(2013).
119. Harbeitner, R.C., Hahn, M.E. & Timme-Laragy, A.R. Differential sensitivity to pro-oxidant exposure in two populations of killifish (*Fundulus heteroclitus*). *Ecotoxicology (London, England)* 387-401(2013).

120. Lee, Y.J., Boynton, W.R., Li, M. & Li, Y. Role of Late Winter-Spring Wind Influencing Summer Hypoxia in Chesapeake Bay. *Estuaries and Coasts* 683-696(2013).
121. Moore, C.D., Moore, M., Fahlman, A. & Trumble, S. Significance of Type IIb Muscle Fibers in Diving Mammals. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology* 714.22-(2013).
122. Zettler, E.R., Mincer, T.J. & Amaral-Zettler, L.A. Life in the "Plastisphere": Microbial Communities on Plastic Marine Debris. *Environmental Science & Technology* 7137-7146(2013).
123. Burgaud, G., Woehlke, S., Redou, V., Orsi, W., Beaudoin, D., Barbier, G., Biddle, J.F. & Edgcomb, V.P. Deciphering the presence and activity of fungal communities in marine sediments using a model estuarine system. *Aquatic Microbial Ecology* 45-62(2013).
124. Reitzel, A.M., Herrera, S., Layden, M.J., Martindale, M.Q. & Shank, T.M. Going where traditional markers have not gone before: utility of and promise for RAD sequencing in marine invertebrate phylogeography and population genomics. *Molecular ecology* 2953-2970(2013).
125. Wiebe, P.H., Lawson, G.L., Lavery, A.C., Copley, N.J., Horgan, E. & Bradley, A. Improved agreement of net and acoustical methods for surveying euphausiids by mitigating avoidance using a net-based LED strobe light system. *ICES Journal of Marine Science* -(2013).
126. Chan, K.Y.K., Gruenbaum, D., Arnberg, M., Thorndyke, M. & Dupont, S.T. Ocean acidification induces budding in larval sea urchins. *Marine Biology* 2129-2135(2013).
127. Edgcomb, V.P., Bernhard, J.M., Beaudoin, D., Pruss, S., Welander, P.V., Schubotz, F., Mehay, S., Gillespie, A.L. & Summons, R.E. Molecular indicators of microbial diversity in oolitic sands of Highborne Cay, Bahamas. *Geobiology* 234-251(2013).
128. Mooney, T.A., Kaplan, M.B., Baird, R.W. & Partan, J. Tags, drifters, and Towfish: Using multiple recording platforms to characterize odontocete acoustic space. *Journal of the Acoustical Society of America* 4007-(2013).
129. Kubota, A., Bainy, A.C., Woodin, B.R., Goldstone, J.V. & Stegeman, J.J. The cytochrome P450 2AA gene cluster in zebrafish (*Danio rerio*): expression of CYP2AA1 and CYP2AA2 and response to phenobarbital-type inducers. *Toxicology and Applied Pharmacology* 172-179(2013).
130. Jenouvrier, S. Impacts of climate change on avian populations. *Global Change Biology* -(2013).
131. Wang, M., Kot, M. & Neubert, M.G. Integrodifference equations, Allee effects, and invasions (vol 44, pg 150, 2002). *Journal of mathematical biology* 1339-1340(2013).
132. White, M.M., McCorkle, D.C., Mullineaux, L.S. & Cohen, A.L. Early Exposure of Bay Scallops (*Argopecten irradians*) to High CO<sub>2</sub> Causes a Decrease in Larval Shell Growth. *PLoS One* e61065-e61065(2013).
133. Micallef, A., Foglini, F., Le Bas, T., Angeletti, L., Maselli, V., Pasuto, A. & Taviani, M. The submerged paleolandscape of the Maltese Islands: Morphology, evolution and relation to Quaternary environmental change. *Marine Geology* 129-147(2013).
134. Haverkort-Yeh, R.D., McFadden, C.S., Benayahu, Y., Berumen, M., Halasz, A. & Toonen, R.J. A taxonomic survey of Saudi Arabian Red Sea octocorals (Cnidaria: Alcyonacea). *Marine Biodiversity* 279-291(2013).