## Ruth D Gates

List of Publications by Year in descending order

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38660 31759 11,480 123 50 101 citations h-index g-index papers 136 136 136 9999 docs citations times ranked citing authors all docs

| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | The Marine Microbial Eukaryote Transcriptome Sequencing Project (MMETSP): Illuminating the Functional Diversity of Eukaryotic Life in the Oceans through Transcriptome Sequencing. PLoS Biology, 2014, 12, e1001889.                             | 2.6  | 885       |
| 2  | Building coral reef resilience through assisted evolution. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2307-2313.  | 3.3  | 709       |
| 3  | Capacity shortfalls hinder the performance of marine protected areas globally. Nature, 2017, 543, 665-669.   | 13.7 | 630       |
| 4  | The coral core microbiome identifies rare bacterial taxa as ubiquitous endosymbionts. ISME Journal, 2015, 9, 2261-2274.  | 4.4  | 548       |
| 5  | The Effect of Ocean Acidification on Calcifying Organisms in Marine Ecosystems: An Organism-to-Ecosystem Perspective. Annual Review of Ecology, Evolution, and Systematics, 2010, 41, 127-147.   | 3.8  | 434       |
| 6  | A new Symbiodinium clade (Dinophyceae) from soritid foraminifera in Hawai'i. Molecular<br>Phylogenetics and Evolution, 2010, 56, 492-497.  | 1.2  | 420       |
| 7  | Shifting paradigms in restoration of the world's coral reefs. Global Change Biology, 2017, 23, 3437-3448.  | 4.2  | 351       |
| 8  | Defining the Core Microbiome in Corals' Microbial Soup. Trends in Microbiology, 2017, 25, 125-140.   | 3.5  | 281       |
| 9  | Functional diversity in coral–dinoflagellate symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9256-9261.   | 3.3  | 268       |
| 10 | Are infectious diseases really killing corals? Alternative interpretations of the experimental and ecological data. Journal of Experimental Marine Biology and Ecology, 2007, 346, 36-44.  | 0.7  | 253       |
| 11 | Ocean Solutions to Address Climate Change and Its Effects on Marine Ecosystems. Frontiers in Marine Science, 2018, 5, .  | 1.2  | 248       |
| 12 | The Physiological Mechanisms of Acclimatization in Tropical Reef Corals. American Zoologist, 1999, 39, 30-43.  | 0.7  | 247       |
| 13 | The future of coral reefs: a microbial perspective. Trends in Ecology and Evolution, 2010, 25, 233-240.  | 4.2  | 242       |
| 14 | Photoacclimatization by the coral Montastraea cavernosa in the mesophotic zone: light, food, and genetics. Ecology, 2010, 91, 990-1003.  | 1.5  | 227       |
| 15 | Conservation genetics and the resilience of reef-building corals. Molecular Ecology, 2006, 15, 3863-3883.  | 2.0  | 203       |
| 16 | Preconditioning in the reef-building coral <i>Pocillopora damicornis</i> and the potential for trans-generational acclimatization in coral larvae under future climate change conditions. Journal of Experimental Biology, 2015, 218, 2365-2372. | 0.8  | 199       |
| 17 | Ocean acidification influences host <scp>DNA</scp> methylation and phenotypic plasticity in environmentally susceptible corals. Evolutionary Applications, 2016, 9, 1165-1178.   | 1.5  | 196       |
| 18 | Clade D <i>Symbiodinium</i> i>in Scleractinian Corals: A "Nugget―of Hope, a Selfish Opportunist, an Ominous Sign, or All of the Above?. Journal of Marine Biology, 2011, 2011, 1-9.  | 1.0  | 189       |

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|----|---|-----|-----------|
| 19 | The Coral Trait Database, a curated database of trait information for coral species from the global oceans. Scientific Data, 2016, 3, 160017.   | 2.4 | 189       |
| 20 | Endosymbiotic flexibility associates with environmental sensitivity in scleractinian corals. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 4352-4361.   | 1.2 | 177       |
| 21 | Comparative genomics explains the evolutionary success of reef-forming corals. ELife, 2016, 5, .  | 2.8 | 169       |
| 22 | GeoSymbio: a hybrid, cloudâ€based web application of global geospatial bioinformatics and ecoinformatics for <i>Symbiodinium</i> â€"host symbioses. Molecular Ecology Resources, 2012, 12, 369-373.   | 2.2 | 168       |
| 23 | The Vulnerability and Resilience of Reef-Building Corals. Current Biology, 2017, 27, R528-R540.   | 1.8 | 156       |
| 24 | Riskâ€sensitive planning for conserving coral reefs under rapid climate change. Conservation Letters, 2018, 11, e12587.   | 2.8 | 151       |
| 25 | Multi-gene analysis of <i>Symbiodinium </i> dinoflagellates: a perspective on rarity, symbiosis, and evolution. PeerJ, 2014, 2, e394.   | 0.9 | 127       |
| 26 | Recognizing diversity in coral symbiotic dinoflagellate communities. Molecular Ecology, 2007, 16, 1127-1134.  | 2.0 | 109       |
| 27 | Osmoregulation in anthozoan–dinoflagellate symbiosis. Comparative Biochemistry and Physiology<br>Part A, Molecular & Integrative Physiology, 2007, 147, 1-10.   | 0.8 | 108       |
| 28 | Coral bleaching from a single cell perspective. ISME Journal, 2018, 12, 1558-1567.  | 4.4 | 107       |
| 29 | Variation in Symbiodinium ITS2 Sequence Assemblages among Coral Colonies. PLoS ONE, 2011, 6, e15854.  | 1.1 | 101       |
| 30 | From Parent to Gamete: Vertical Transmission of Symbiodinium (Dinophyceae) ITS2 Sequence Assemblages in the Reef Building Coral Montipora capitata. PLoS ONE, 2012, 7, e38440.  | 1.1 | 100       |
| 31 | The distribution of the thermally tolerant symbiont lineage ( <i><scp>S</scp>ymbiodinium</i> clade D) in corals from <scp>H</scp> awaii: correlations with host and the history of ocean thermal stress. Ecology and Evolution, 2013, 3, 1317-1329. | 0.8 | 95        |
| 32 | Molluscan engrailed expression, serial organization, and shell evolution. Evolution & Development, 2000, 2, 340-347.  | 1.1 | 93        |
| 33 | COMPARISON OF ENDOSYMBIOTIC AND FREE-LIVING SYMBIODINIUM (DINOPHYCEAE) DIVERSITY IN A HAWAIIAN REEF ENVIRONMENT1. Journal of Phycology, 2010, 46, 53-65.  | 1.0 | 91        |
| 34 | Using high-throughput sequencing of ITS2 to describe <i>Symbiodinium</i> metacommunities in St. John, US Virgin Islands. PeerJ, 2017, 5, e3472.   | 0.9 | 88        |
| 35 | Identifying and Characterizing Alternative Molecular Markers for the Symbiotic and Free-Living Dinoflagellate Genus Symbiodinium. PLoS ONE, 2012, 7, e29816.  | 1.1 | 84        |
| 36 | Variability of Symbiodinium Communities in Waters, Sediments, and Corals of Thermally Distinct Reef Pools in American Samoa. PLoS ONE, 2015, 10, e0145099.  | 1.1 | 81        |

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|----|---|-----|-----------|
| 37 | Ultraviolet radiation effects on the behavior and recruitment of larvae from the reef coral Porites astreoides. Marine Biology, 2006, 148, 503-512.   | 0.7 | 80        |
| 38 | Diversity in populations of freeâ€living Symbiodinium from a Caribbean and Pacific reef. Limnology and Oceanography, 2008, 53, 1853-1861.   | 1.6 | 77        |
| 39 | Persistence and Change in Community Composition of Reef Corals through Present, Past, and Future Climates. PLoS ONE, 2014, 9, e107525.  | 1.1 | 75        |
| 40 | Transmission Mode Predicts Specificity and Interaction Patterns in Coral-Symbiodinium Networks. PLoS ONE, 2012, 7, e44970.  | 1.1 | 72        |
| 41 | Corals' microbial sentinels. Science, 2016, 352, 1518-1519.   | 6.0 | 71        |
| 42 | Coral-virus interactions: A double-edged sword?. Symbiosis, 2009, 47, 1-8.  | 1.2 | 70        |
| 43 | Dynamic symbioses reveal pathways to coral survival through prolonged heatwaves. Nature Communications, 2020, 11, 6097.   | 5.8 | 67        |
| 44 | Symbiotic specificity, association patterns, and function determine community responses to global changes: defining critical research areas for coralâ€∢i>Symbiodinium⟨/i> symbioses. Global Change Biology, 2013, 19, 3306-3316. | 4.2 | 66        |
| 45 | Effects of bleaching-associated mass coral mortality on reef structural complexity across a gradient of local disturbance. Scientific Reports, 2019, 9, 2512.   | 1.6 | 65        |
| 46 | A dynamic bioenergetic model for coral-Symbiodinium symbioses and coral bleaching as an alternate stable state. Journal of Theoretical Biology, 2017, 431, 49-62.   | 0.8 | 63        |
| 47 | Metabolomic signatures of increases in temperature and ocean acidification from the reef-building coral, Pocillopora damicornis. Metabolomics, $2016, 12, 1$ .  | 1.4 | 62        |
| 48 | The nature and taxonomic composition of coral symbiomes as drivers of performance limits in scleractinian corals. Journal of Experimental Marine Biology and Ecology, 2011, 408, 94-101.  | 0.7 | 59        |
| 49 | Intracellular pH and its response to CO2-driven seawater acidification in symbiotic <i>versus</i> non-symbiotic coral cells. Journal of Experimental Biology, 2014, 217, 1963-9.  | 0.8 | 59        |
| 50 | Molecular Delineation of Species in the Coral Holobiont. Advances in Marine Biology, 2012, 63, 1-65.  | 0.7 | 58        |
| 51 | The Early Expansion and Evolutionary Dynamics of POU Class Genes. Molecular Biology and Evolution, 2014, 31, 3136-3147.   | 3.5 | 58        |
| 52 | A framework for identifying and characterising coral reef "oases―against a backdrop of degradation. Journal of Applied Ecology, 2018, 55, 2865-2875.  | 1.9 | 58        |
| 53 | sine oculis in basal Metazoa. Development Genes and Evolution, 2004, 214, 342-51.   | 0.4 | 54        |
| 54 | Coral community resilience to successive years of bleaching in KÄne†ohe Bay, Hawai†i. Coral Reefs, 2020, 39, 757-769.   | 0.9 | 54        |

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|----|--|-----|-----------|
| 55 | Temporal and spatial expression patterns of biomineralization proteins during early development in the stony coral <i>Pocillopora damicornis</i> Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20160322.                           | 1.2 | 53        |
| 56 | Genome analysis of the rice coral Montipora capitata. Scientific Reports, 2019, 9, 2571.   | 1.6 | 53        |
| 57 | Cultivating endosymbionts — Host environmental mimics support the survival of Symbiodinium C15 ex hospite. Journal of Experimental Marine Biology and Ecology, 2012, 413, 169-176.   | 0.7 | 52        |
| 58 | Spatial variation in the biochemical and isotopic composition of corals during bleaching and recovery. Limnology and Oceanography, 2019, 64, 2011-2028.  | 1.6 | 52        |
| 59 | Divergent symbiont communities determine the physiology and nutrition of a reef coral across a light-availability gradient. ISME Journal, 2020, 14, 945-958.   | 4.4 | 50        |
| 60 | Evaluating the causal basis of ecological success within the scleractinia: an integral projection model approach. Marine Biology, 2014, 161, 2719-2734.  | 0.7 | 48        |
| 61 | Correspondence of coral holobiont metabolome with symbiotic bacteria, archaea and <i>Symbiodinium</i> communities. Environmental Microbiology Reports, 2017, 9, 310-315.   | 1.0 | 47        |
| 62 | Azooxanthellate? Most Hawaiian black corals contain <i>Symbiodinium</i> . Proceedings of the Royal Society B: Biological Sciences, 2011, 278, 1323-1328.   | 1.2 | 39        |
| 63 | Species-specific differences in thermal tolerance may define susceptibility to intracellular acidosis in reef corals. Marine Biology, 2015, 162, 717-723.  | 0.7 | 39        |
| 64 | Improving the ecological relevance of toxicity tests on scleractinian corals: Influence of season, life stage, and seawater temperature. Environmental Pollution, 2016, 213, 240-253.  | 3.7 | 39        |
| 65 | Application of 1H-NMR Metabolomic Profiling for Reef-Building Corals. PLoS ONE, 2014, 9, e111274.  | 1.1 | 38        |
| 66 | Evaluating the temporal stability of stress-activated protein kinase and cytoskeleton gene expression in the Pacific reef corals Pocillopora damicornis and Seriatopora hystrix. Journal of Experimental Marine Biology and Ecology, 2010, 395, 215-222. | 0.7 | 37        |
| 67 | Betaines and Dimethylsulfoniopropionate as Major Osmolytes in Cnidaria with Endosymbiotic Dinoflagellates. Physiological and Biochemical Zoology, 2010, 83, 167-173.   | 0.6 | 37        |
| 68 | Are all eggs created equal? A case study from the Hawaiian reef-building coral Montipora capitata. Coral Reefs, 2013, 32, 137-152.   | 0.9 | 37        |
| 69 | Diversity in skeletal architecture influences biological heterogeneity and Symbiodinium habitat in corals. Zoology, 2013, 116, 262-269.  | 0.6 | 36        |
| 70 | High-frequency temperature variability mirrors fixed differences in thermal limits of the massive coral <i>Porites lobata</i> (Dana, 1846). Journal of Experimental Biology, 2018, 221, .  | 0.8 | 36        |
| 71 | Environmentally-induced parental or developmental conditioning influences coral offspring ecological performance. Scientific Reports, 2020, 10, 13664.   | 1.6 | 36        |
| 72 | Coral bleaching response is unaltered following acclimatization to reefs with distinct environmental conditions. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .   | 3.3 | 35        |

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|----|--|-----|-----------|
| 73 | Gene expression normalization in a dualâ€compartment system: a realâ€time quantitative polymerase chain reaction protocol for symbiotic anthozoans. Molecular Ecology Resources, 2009, 9, 462-470.       | 2.2 | 34        |
| 74 | How do we overcome abrupt degradation of marine ecosystems and meet the challenge of heat waves and climate extremes?. Global Change Biology, 2020, 26, 343-354.   | 4.2 | 34        |
| 75 | Short-Term Thermal Acclimation Modifies the Metabolic Condition of the Coral Holobiont. Frontiers in Marine Science, 2018, 5, .  | 1.2 | 33        |
| 76 | Coral Bleaching Susceptibility Is Predictive of Subsequent Mortality Within but Not Between Coral Species. Frontiers in Ecology and Evolution, 2020, 8, .  | 1.1 | 33        |
| 77 | The influence of an anthozoan "host factor―on the physiology of a symbiotic dinoflagellate. Journal of Experimental Marine Biology and Ecology, 1999, 232, 241-259.                                      | 0.7 | 32        |
| 78 | The effect of temperature on the size and population density of dinoflagellates in larvae of the reef coral Porites astreoides. Invertebrate Biology, 2005, 124, 185-193.                                | 0.3 | 30        |
| 79 | Has Coral Bleaching Delayed Our Understanding of Fundamental Aspects of Coral–Dinoflagellate<br>Symbioses?. BioScience, 2003, 53, 976.   | 2.2 | 29        |
| 80 | Generalist dinoflagellate endosymbionts and host genotype diversity detected from mesophotic (67-100 m depths) coral Leptoseris. BMC Ecology, 2009, 9, 21.   | 3.0 | 29        |
| 81 | Increased diversity and concordant shifts in community structure of coralâ€associated<br>Symbiodiniaceae and bacteria subjected to chronic human disturbance. Molecular Ecology, 2020, 29,<br>2477-2491. | 2.0 | 26        |
| 82 | Preconditioning improves bleaching tolerance in the reefâ€building coral <i>Pocillopora acuta</i> through modulations in the programmed cell death pathways. Molecular Ecology, 2021, 30, 3560-3574.     | 2.0 | 26        |
| 83 | Assessing fertilization success of the coral Montipora capitata under copper exposure: Does the night of spawning matter?. Marine Pollution Bulletin, 2013, 66, 221-224.                                 | 2.3 | 25        |
| 84 | Shifting baselines: Physiological legacies contribute to the response of reef corals to frequent heatwaves. Functional Ecology, 2021, 35, 1366-1378.   | 1.7 | 25        |
| 85 | Vectored introductions of marine endosymbiotic dinoflagellates into Hawaii. Biological Invasions, 2008, 10, 579-583.   | 1.2 | 23        |
| 86 | The effects of environmental history and thermal stress on coral physiology and immunity. Marine Biology, 2018, 165, 1.  | 0.7 | 23        |
| 87 | Effects of Temperature and <i>p</i> CO <sub>2</sub> on Population Regulation of <i>Symbiodinium</i> spp. in a Tropical Reef Coral. Biological Bulletin, 2017, 232, 123-139.                              | 0.7 | 22        |
| 88 | Phenotypic plasticity of the coral Porites rus: Acclimatization responses to a turbid environment. Journal of Experimental Marine Biology and Ecology, 2012, 434-435, 71-80.                             | 0.7 | 20        |
| 89 | Geographic structure and host specificity shape the community composition of symbiotic dinoflagellates in corals from the Northwestern Hawaiian Islands. Coral Reefs, 2015, 34, 1075-1086.               | 0.9 | 20        |
| 90 | Metabolite pools of the reef building coral Montipora capitata are unaffected by Symbiodiniaceae community composition. Coral Reefs, 2020, 39, 1727-1737.  | 0.9 | 19        |

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|-----|--|-----|-----------|
| 91  | Intrapopulation adaptive variance supports thermal tolerance in a reef-building coral. Communications Biology, 2022, 5, 486.   | 2.0 | 18        |
| 92  | Sedimentation and the Reproductive Biology of the Hawaiian Reef-Building Coral <i>Montipora capitata</i> . Biological Bulletin, 2014, 226, 8-18.   | 0.7 | 17        |
| 93  | Developmental Genes and the Reconstruction of Metazoan Evolution-Implications of Evolutionary Loss, Limits on Inference of Ancestry and Type 2 Errors. Integrative and Comparative Biology, 2003, 43, 11-18.             | 0.9 | 16        |
| 94  | Tissue fusion and enhanced genotypic diversity support the survival of Pocillopora acuta coral recruits under thermal stress. Coral Reefs, 2021, 40, 447-458.  | 0.9 | 16        |
| 95  | Amino acid <scp>Î'<sup>13</sup>C</scp> and <scp>Î'<sup>15</sup>N</scp> analyses reveal distinct speciesâ€specific patterns of trophic plasticity in a marine symbiosis. Limnology and Oceanography, 2021, 66, 2033-2050. | 1.6 | 16        |
| 96  | Who's there? – First morphological and DNA barcoding catalogue of the shallow Hawai'ian sponge fauna. PLoS ONE, 2017, 12, e0189357.  | 1.1 | 15        |
| 97  | Ecophysiology of mesophotic reefâ€building corals in Hawaiâ€~i is influenced by symbiont–host associations, photoacclimatization, trophic plasticity, and adaptation. Limnology and Oceanography, 2019, 64, 1980-1995.   | 1.6 | 15        |
| 98  | Chronic disturbance modulates symbiont (Symbiodiniaceae) beta diversity on a coral reef. Scientific Reports, 2020, 10, 4492.   | 1.6 | 13        |
| 99  | Feeding and thermal conditioning enhance coral temperature tolerance in juvenile (i>Pocillopora acuta  li>. Royal Society Open Science, 2021, 8, 210644.   | 1.1 | 13        |
| 100 | Gene Fishing: The Use of a Simple Protocol to Isolate Multiple Homeodomain Classes from Diverse Invertebrate Taxa. Journal of Molecular Evolution, 2003, 56, 509-516.  | 0.8 | 12        |
| 101 | The Effect of a Sublethal Temperature Elevation on the Structure of Bacterial Communities Associated with the CoralPorites compressa. Journal of Marine Biology, 2011, 2011, 1-9.  | 1.0 | 12        |
| 102 | Ecotoxicological approach for assessing the contamination of a Hawaiian coral reef ecosystem (Honolua Bay, Maui) by metals and a metalloid. Marine Environmental Research, 2011, 71, 149-161.                            | 1.1 | 12        |
| 103 | Temperatureâ€mediated acquisition of rare heterologous symbionts promotes survival of coral larvae under ocean warming. Global Change Biology, 2022, 28, 2006-2025.  | 4.2 | 12        |
| 104 | Skeletal eroding band in Hawaiian corals. Coral Reefs, 2010, 29, 469-469.  | 0.9 | 11        |
| 105 | Photophysiological Consequences of Vertical Stratification of <i>Symbiodinium</i> in Tissue of the Coral <i>Porites lutea</i> . Biological Bulletin, 2012, 223, 226-235.   | 0.7 | 11        |
| 106 | Symbiont transmission and reproductive mode influence responses of three Hawaiian coral larvae to elevated temperature and nutrients. Coral Reefs, 2020, 39, 419-431.  | 0.9 | 11        |
| 107 | Ecosystemâ€scale mapping of coral species and thermal tolerance. Frontiers in Ecology and the Environment, 2022, 20, 285-291.  | 1.9 | 11        |
| 108 | The effects of substratum type on the growth, mortality, and photophysiology of juvenile corals in St. John, US Virgin Islands. Journal of Experimental Marine Biology and Ecology, 2010, 384, 18-29.                    | 0.7 | 10        |

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|-----|---|-----|-----------|
| 109 | From polyps to pixels: understanding coral reef resilience to local and global change across scales. Landscape Ecology, 2023, 38, 737-752.  | 1.9 | 10        |
| 110 | Assessment of metals and a metalloid in sediments from Hawaiian coral reef ecosystems. Marine Pollution Bulletin, 2009, 58, 1759-1765.  | 2.3 | 9         |
| 111 | Investigating the spatial distribution of growth anomalies affecting Montipora capitata corals in a 3-dimensional framework. Journal of Invertebrate Pathology, 2016, 140, 51-57. | 1.5 | 8         |
| 112 | Intra-colony disease progression induces fragmentation of coral fluorescent pigments. Scientific Reports, 2017, 7, 14596.   | 1.6 | 7         |
| 113 | Scale dependence of coral reef oases and their environmental correlates. Ecological Applications, 2022, 32, e2651.  | 1.8 | 7         |
| 114 | Variation in Coral Thermotolerance Across a Pollution Gradient Erodes as Coral Symbionts Shift to More Heat-Tolerant Genera. Frontiers in Marine Science, 2021, 8, .              | 1.2 | 6         |
| 115 | Data for spatial analysis of growth anomaly lesions on Montipora capitata coral colonies using 3D reconstruction techniques. Data in Brief, 2016, 9, 460-462.                     | 0.5 | 4         |
| 116 | The isolation of a Distal-less gene fragment from two molluscs. Development Genes and Evolution, 2001, 211, 506-508.  | 0.4 | 3         |
| 117 | Discovery of SCORs: Anciently derived, highly conserved gene-associated repeats in stony corals. Genomics, 2017, 109, 383-390.  | 1.3 | 3         |
| 118 | High light alongside elevated PCO2Âalleviates thermal depression of photosynthesis in a hard coral (Pocillopora acuta). Journal of Experimental Biology, 2020, 223, .             | 0.8 | 3         |
| 119 | Divergent evolutionary histories of DNA markers in a Hawaiian population of the coral <i>Montipora capitata</i> . PeerJ, 2017, 5, e3319.  | 0.9 | 3         |
| 120 | Nitric oxide production rather than oxidative stress and cell death is associated with the onset of coral bleaching in <i>Pocillopora acuta </i> i>, PeerJ, 0, 10, e13321.        | 0.9 | 3         |
| 121 | Embracing Complexity in Coral–Algal Symbioses. , 2017, , 467-492.   |     | 2         |
| 122 | Determining the Spatial and Temporal Patterns of Developmental Gene Expression in Vertebrates and Invertebrates Using in situ Hybridization Techniques., 2002,, 365-394.          |     | 0         |
| 123 | The metabolic significance of symbiont community composition in the coral-algal symbiosis. , 2022, , 211-229.   |     | 0         |