## Virginia M Weis

## List of Publications by Citations

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#	Paper	IF	Citations
106	Cellular mechanisms of Cnidarian bleaching: stress causes the collapse of symbiosis. <i>Journal of Experimental Biology</i> , <b>2008</b> , 211, 3059-66	3	544
105	Cell biology of cnidarian-dinoflagellate symbiosis. <i>Microbiology and Molecular Biology Reviews</i> , <b>2012</b> , 76, 229-61	13.2	496
104	The genome of Aiptasia, a sea anemone model for coral symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 11893-8	11.5	244
103	Cell biology in model systems as the key to understanding corals. <i>Trends in Ecology and Evolution</i> , <b>2008</b> , 23, 369-76	10.9	216
102	Effects of morphology and water motion on carbon delivery and productivity in the reef coral, Pocillopora damicornis (Linnaeus): Diffusion barriers, inorganic carbon limitation, and biochemical plasticity. <i>Journal of Experimental Marine Biology and Ecology</i> , <b>1994</b> , 178, 153-179	2.1	195
101	Lectin/glycan interactions play a role in recognition in a coral/dinoflagellate symbiosis. <i>Cellular Microbiology</i> , <b>2006</b> , 8, 1985-93	3.9	152
100	Nitric oxide and cnidarian bleaching: an eviction notice mediates breakdown of a symbiosis. <i>Journal of Experimental Biology</i> , <b>2006</b> , 209, 2804-10	3	130
99	Comparative genomics explains the evolutionary success of reef-forming corals. <i>ELife</i> , <b>2016</b> , 5,	8.9	126
98	Host-symbiont specificity during onset of symbiosis between the dinoflagellates Symbiodinium spp. and planula larvae of the scleractinian coral Fungia scutaria. <i>Coral Reefs</i> , <b>2001</b> , 20, 301-308	4.2	125
97	A IIO2 supplyImechanism in zooxanthellate cnidarians: role of carbonic anhydrase. <i>Marine Biology</i> , <b>1989</b> , 100, 195-202	2.5	120
96	Apoptosis and autophagy as mechanisms of dinoflagellate symbiont release during cnidarian bleaching: every which way you lose. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2007</b> , 274, 3079-85	4.4	115
95	Generation and analysis of transcriptomic resources for a model system on the rise: the sea anemone Aiptasia pallida and its dinoflagellate endosymbiont. <i>BMC Genomics</i> , <b>2009</b> , 10, 258	4.5	113
94	Late Larval Development and Onset of Symbiosis in the Scleractinian Coral Fungia scutaria. <i>Biological Bulletin</i> , <b>1999</b> , 196, 70-9	1.5	113
93	Transcriptome analysis of a cnidarian-dinoflagellate mutualism reveals complex modulation of host gene expression. <i>BMC Genomics</i> , <b>2006</b> , 7, 23	4.5	111
92	Optimal nutrient exchange and immune responses operate in partner specificity in the cnidarian-dinoflagellate symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 13194-13199	11.5	103
91	Apoptosis as a post-phagocytic winnowing mechanism in a coral-dinoflagellate mutualism. <i>Environmental Microbiology</i> , <b>2009</b> , 11, 268-76	5.2	79
90	Distinct ITS types of Symbiodinium in Clade C correlate with cnidarian/dinoflagellate specificity during onset of symbiosis. <i>Marine Ecology - Progress Series</i> , <b>2004</b> , 275, 97-102	2.6	71

## (2008-1996)

89	A peroxidase related to the mammalian antimicrobial protein myeloperoxidase in the Euprymna-Vibrio mutualism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1996</b> , 93, 13683-8	11.5	69
88	Temporal and spatial infection dynamics indicate recognition events in the early hours of a dinoflagellate/coral symbiosis. <i>Marine Biology</i> , <b>2006</b> , 149, 713-719	2.5	67
87	Study of cnidarian-algal symbiosis in the "omics" age. <i>Biological Bulletin</i> , <b>2012</b> , 223, 44-65	1.5	64
86	Carbonic anhydrase expression and synthesis in the sea anemone Anthopleura elegantissima are enhanced by the presence of dinoflagellate symbionts. <i>Physiological and Biochemical Zoology</i> , <b>1999</b> , 72, 307-16	2	64
85	Effect of dissolved inorganic carbon concentration on the photosynthesis of the symbiotic sea anemone Aiptasia pulchella Carlgren: Role of carbonic anhydrase. <i>Journal of Experimental Marine Biology and Ecology</i> , <b>1993</b> , 174, 209-225	2.1	62
84	Symbiosis induces widespread changes in the proteome of the model cnidarian Aiptasia. <i>Cellular Microbiology</i> , <b>2016</b> , 18, 1009-23	3.9	62
83	Physiology. What determines coral health?. <i>Science</i> , <b>2009</b> , 324, 1153-5	33.3	57
82	Uptake and partitioning of copper and cadmium in the coral Pocillopora damicornis. <i>Aquatic Toxicology</i> , <b>2007</b> , 85, 48-56	5.1	56
81	Regulation of cnidarian-dinoflagellate mutualisms: Evidence that activation of a host TGFInnate immune pathway promotes tolerance of the symbiont. <i>Developmental and Comparative Immunology</i> , 2012, 38, 525-37	3.2	53
80	Feeding behavior and acquisition of zooxanthellae by planula larvae of the sea anemone Anthopleura elegantissima. <i>Marine Biology</i> , <b>2002</b> , 140, 471-478	2.5	52
79	Three party symbiosis: acoelomorph worms, corals and unicellular algal symbionts in Eilat (Red Sea). <i>Marine Biology</i> , <b>2007</b> , 151, 1215-1223	2.5	51
78	Differential protein profiles reflect the different lifestyles of symbiotic and aposymbiotic Anthopleura elegantissima, a sea anemone from temperate waters. <i>Journal of Experimental Biology</i> , <b>1996</b> , 199, 883-892	3	50
77	Symbiosis-enhanced gene expression in cnidarian-algal associations: cloning and characterization of a cDNA, sym32, encoding a possible cell adhesion protein. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Discourse Physiology</i> , <b>2000</b> , 126, 33-44	2.6	49
76	The susceptibility and resilience of corals to thermal stress: adaptation, acclimatization or both?. <i>Molecular Ecology</i> , <b>2010</b> , 19, 1515-7	5.7	48
75	The Induction of Carbonic Anhydrase in the Symbiotic Sea Anemone Aiptasia pulchella. <i>Biological Bulletin</i> , <b>1991</b> , 180, 496-504	1.5	47
74	Highly conserved caspase and Bcl-2 homologues from the sea anemone Aiptasia pallida: lower metazoans as models for the study of apoptosis evolution. <i>Journal of Molecular Evolution</i> , <b>2006</b> , 63, 95-1	107	46
73	TIR-domain-containing protein repertoire of nine anthozoan species reveals coral-specific expansions and uncharacterized proteins. <i>Developmental and Comparative Immunology</i> , <b>2014</b> , 46, 480-8	3.2	44
72	Response of the symbiotic cnidarian Anthopleura elegantissima transcriptome to temperature and UV increase. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics. 2008. 3, 283-9	2	43

71	BIOLOGY OF HYDRACTINIID HYDROIDS. 4. ULTRASTRUCTURE OF THE PLANULA OFHYDRACTINIA ECHINATA. <i>Biological Bulletin</i> , <b>1985</b> , 168, 403-418	1.5	43
70	Partner switching and metabolic flux in a model cnidarian-dinoflagellate symbiosis. <i>Proceedings of the Royal Society B: Biological Sciences</i> , <b>2018</b> , 285,	4.4	43
69	De Novo Assembly and Characterization of Four Anthozoan (Phylum Cnidaria) Transcriptomes. <i>G3: Genes, Genomes, Genetics</i> , <b>2015</b> , 5, 2441-52	3.2	41
68	The diversity of C-type lectins in the genome of a basal metazoan, Nematostella vectensis. Developmental and Comparative Immunology, <b>2009</b> , 33, 881-9	3.2	41
67	Differential accumulation of heavy metals in the sea anemone Anthopleura elegantissima as a function of symbiotic state. <i>Aquatic Toxicology</i> , <b>2003</b> , 64, 317-29	5.1	41
66	Thermal Shock Induces Host Proteostasis Disruption and Endoplasmic Reticulum Stress in the Model Symbiotic Cnidarian Aiptasia. <i>Journal of Proteome Research</i> , <b>2017</b> , 16, 2121-2134	5.6	40
65	Diversity of dinoflagellate symbionts in Red Sea soft corals: mode of symbiont acquisition matters. Marine Ecology - Progress Series, <b>2004</b> , 275, 89-95	2.6	40
64	FLOW-CYTOMETRIC CHARACTERIZATION OF THE CELL-SURFACE GLYCANS OF SYMBIOTIC DINOFLAGELLATES (SYMBIODINIUM SPP.)1. <i>Journal of Phycology</i> , <b>2010</b> , 46, 525-533	3	39
63	Motility of zooxanthellae isolated from the Red Sea soft coral Heteroxenia fuscescens (Cnidaria). Journal of Experimental Marine Biology and Ecology, <b>2004</b> , 298, 35-48	2.1	39
62	The Role of Complement in Cnidarian-Dinoflagellate Symbiosis and Immune Challenge in the Sea Anemone Aiptasia pallida. <i>Frontiers in Microbiology</i> , <b>2016</b> , 7, 519	5.7	39
61	Menthol-induced bleaching rapidly and effectively provides experimental aposymbiotic sea anemones (Aiptasia sp.) for symbiosis investigations. <i>Journal of Experimental Biology</i> , <b>2016</b> , 219, 306-10	3	37
60	Coral larvae exhibit few measurable transcriptional changes during the onset of coral-dinoflagellate endosymbiosis. <i>Marine Genomics</i> , <b>2010</b> , 3, 107-16	1.9	37
59	Diel rhythmicity of lipid-body formation in a coral-Symbiodinium endosymbiosis. <i>Coral Reefs</i> , <b>2012</b> , 31, 521-534	4.2	36
58	Knockdown of actin and caspase gene expression by RNA interference in the symbiotic anemone Aiptasia pallida. <i>Biological Bulletin</i> , <b>2007</b> , 212, 250-8	1.5	36
57	Abundant mRNAs in the squid light organ encode proteins with a high similarity to mammalian peroxidases. <i>Gene</i> , <b>1993</b> , 132, 219-26	3.8	35
56	Stress and death of cnidarian host cells play a role in cnidarian bleaching. <i>Journal of Experimental Biology</i> , <b>2013</b> , 216, 2813-20	3	34
55	Linking Ecology and Epidemiology to Understand Predictors of Multi-Host Responses to an Emerging Pathogen, the Amphibian Chytrid Fungus. <i>PLoS ONE</i> , <b>2017</b> , 12, e0167882	3.7	33
54	Elevated temperature impairs onset of symbiosis and reduces survivorship in larvae of the Hawaiian coral, Fungia scutaria. <i>Marine Biology</i> , <b>2012</b> , 159, 633-642	2.5	33

53	Enhanced Production of ALDH-Like Protein in the Bacterial Light Organ of the Sepiolid Squid Euprymna scolopes. <i>Biological Bulletin</i> , <b>1993</b> , 184, 309-321	1.5	33
52	Cell Biology of Coral Symbiosis: Foundational Study Can Inform Solutions to the Coral Reef Crisis. <i>Integrative and Comparative Biology</i> , <b>2019</b> , 59, 845-855	2.8	32
51	Comparative proteomics of symbiotic and aposymbiotic juvenile soft corals. <i>Marine Biotechnology</i> , <b>2006</b> , 8, 11-6	3.4	32
50	Transcription factor NF- <b>B</b> is modulated by symbiotic status in a sea anemone model of cnidarian bleaching. <i>Scientific Reports</i> , <b>2017</b> , 7, 16025	4.9	31
49	Differential accumulation of cadmium and changes in glutathione levels as a function of symbiotic state in the sea anemone Anthopleura elegantissima. <i>Journal of Experimental Marine Biology and Ecology</i> , <b>2003</b> , 284, 71-85	2.1	31
48	Effect of elevated temperature on fecundity and reproductive timing in the coral Acropora digitifera. <i>Zygote</i> , <b>2016</b> , 24, 511-6	1.6	30
47	Analytical approach for selecting normalizing genes from a cDNA microarray platform to be used in q-RT-PCR assays: a cnidarian case study. <i>Journal of Proteomics</i> , <b>2008</b> , 70, 985-91		28
46	Role of the sphingosine rheostat in the regulation of cnidarian-dinoflagellate symbioses. <i>Biological Bulletin</i> , <b>2011</b> , 221, 261-9	1.5	27
45	Symbiont Identity Influences Patterns of Symbiosis Establishment, Host Growth, and Asexual Reproduction in a Model Cnidarian-Dinoflagellate Symbiosis. <i>Biological Bulletin</i> , <b>2018</b> , 234, 1-10	1.5	26
44	Proteomics quantifies protein expression changes in a model cnidarian colonised by a thermally tolerant but suboptimal symbiont. <i>ISME Journal</i> , <b>2019</b> , 13, 2334-2345	11.9	25
43	First evidence of maternal transmission of algal endosymbionts at an oocyte stage in a triploblastic host, with observations on reproduction in Waminoa brickneri (Acoelomorpha). <i>Invertebrate Biology</i> , <b>2007</b> , 126, 113-119	1	25
42	Development of symbiosis-specific genes as biomarkers for the early detection of cnidarian-algal symbiosis breakdown. <i>Marine Environmental Research</i> , <b>2002</b> , 54, 345-9	3.3	25
41	The scavenger receptor repertoire in six cnidarian species and its putative role in cnidarian-dinoflagellate symbiosis. <i>PeerJ</i> , <b>2016</b> , 4, e2692	3.1	25
40	Subtle Differences in Symbiont Cell Surface Glycan Profiles Do Not Explain Species-Specific Colonization Rates in a Model Cnidarian-Algal Symbiosis. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 842	5.7	24
39	Proteomic and transcriptional analyses of coral larvae newly engaged in symbiosis with dinoflagellates. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , <b>2007</b> , 2, 63-7	3	24
38	Localization of a symbiosis-related protein, Sym32, in the Anthopleura elegantissima-Symbiodinium muscatinei Association. <i>Biological Bulletin</i> , <b>2003</b> , 205, 339-50	1.5	24
37	Increasing comparability among coral bleaching experiments. <i>Ecological Applications</i> , <b>2021</b> , 31, e02262	4.9	24
36	A diverse host thrombospondin-type-1 repeat protein repertoire promotes symbiont colonization during establishment of cnidarian-dinoflagellate symbiosis. <i>ELife</i> , <b>2017</b> , 6,	8.9	22

35	CHARACTERIZATION OF A SHORT FORM PERIDININ-CHLOROPHYLL-PROTEIN (PCP) cDNA AND PROTEIN FROM THE SYMBIOTIC DINOFLAGELLATE SYMBIODINIUM MUSCATINEI (DINOPHYCEAE) FROM THE SEA ANEMONE ANTHOPLEURA ELEGANTISSIMA (CNIDARIA) 1. Journal of Phycology,	3	21
34	2002, 38, 157-163 The Molecular Language of the Cnidarian-Dinoflagellate Symbiosis. <i>Trends in Microbiology</i> , <b>2021</b> , 29, 320-333	12.4	20
33	Productivity of Zooxanthellae and Biogeochemical Cycles <b>1992</b> , 257-271		19
32	Phylogenetic characterization of transporter proteins in the cnidarian-dinoflagellate symbiosis. <i>Molecular Phylogenetics and Evolution</i> , <b>2018</b> , 120, 307-320	4.1	18
31	Inter-partner specificity limits the acquisition of thermotolerant symbionts in a model cnidarian-dinoflagellate symbiosis. <i>ISME Journal</i> , <b>2019</b> , 13, 2489-2499	11.9	17
30	Elevated temperature alters the lunar timing of Planulation in the brooding coral Pocillopora damicornis. <i>PLoS ONE</i> , <b>2014</b> , 9, e107906	3.7	15
29	Development and survivorship of zooxanthellate and azooxanthellate primary polyps of the soft coral Heteroxenia fuscescens: laboratory and field comparisons. <i>Marine Biology</i> , <b>2003</b> , 142, 1055-1063	2.5	15
28	The sphingosine rheostat is involved in the cnidarian heat stress response but not necessarily in bleaching. <i>Journal of Experimental Biology</i> , <b>2017</b> , 220, 1709-1720	3	12
27	Host and Symbiont Cell Cycle Coordination Is Mediated by Symbiotic State, Nutrition, and Partner Identity in a Model Cnidarian-Dinoflagellate Symbiosis. <i>MBio</i> , <b>2020</b> , 11,	7.8	12
26	Two atypical carbonic anhydrase homologs from the planula larva of the scleractinian coral Fungia scutaria. <i>Biological Bulletin</i> , <b>2006</b> , 211, 18-30	1.5	12
25	Aspects of the larval biology of the sea anemones Anthopleura elegantissima and A. artemisia. <i>Invertebrate Biology</i> , <b>2005</b> , 121, 190-201	1	12
24	Impacts of temperature and lunar day on gene expression profiles during a monthly reproductive cycle in the brooding coral Pocillopora damicornis. <i>Molecular Ecology</i> , <b>2017</b> , 26, 3913-3925	5.7	11
23	Implication of the host TGF[pathway in the onset of symbiosis between larvae of the coral Fungia scutaria and the dinoflagellate Symbiodinium sp. (clade C1f). <i>Coral Reefs</i> , <b>2017</b> , 36, 1263-1268	4.2	10
22	Cyclophilin and the regulation of symbiosis in Aiptasia pallida. <i>Biological Bulletin</i> , <b>2008</b> , 215, 63-72	1.5	10
21	Len Muscatine (1932 <b>1</b> 007) and his contributions to the understanding of algal-invertebrate endosymbiosis. <i>Coral Reefs</i> , <b>2007</b> , 26, 731-739	4.2	8
20	Limitations of Using Cultured Algae to Study Cnidarian-Algal Symbioses and Suggestions for Future Studies. <i>Journal of Phycology</i> , <b>2021</b> , 57, 30-38	3	8
19	The coral holobiont highlights the dependence of cnidarian animal hosts on their associated microbes <b>2020</b> , 91-118		7
18	AnimalBymbiodinium Symbioses: Foundations of Coral Reef Ecosystems. <i>Advances in Environmental Microbiology</i> , <b>2016</b> , 269-294	1.3	7

## LIST OF PUBLICATIONS

17	Sub-cellular imaging shows reduced photosynthetic carbon and increased nitrogen assimilation by the non-native endosymbiont Durusdinium trenchii in the model cnidarian Aiptasia. <i>Environmental Microbiology</i> , <b>2020</b> , 22, 3741-3753	5.2	6
16	Characterization of a novel EF-hand homologue, CnidEF, in the sea anemone Anthopleura elegantissima. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>2007</b> , 146, 551-9	2.3	6
15	Metabolite pools of the reef building coral Montipora capitata are unaffected by Symbiodiniaceae community composition. <i>Coral Reefs</i> , <b>2020</b> , 39, 1727-1737	4.2	6
14	N-Linked Surface Glycan Biosynthesis, Composition, Inhibition, and Function in Cnidarian-Dinoflagellate Symbiosis. <i>Microbial Ecology</i> , <b>2020</b> , 80, 223-236	4.4	5
13	Sphingolipid Metabolism of a Sea Anemone Is Altered by the Presence of Dinoflagellate Symbionts. <i>Biological Bulletin</i> , <b>2017</b> , 233, 242-254	1.5	5
12	Six priorities to advance the science and practice of coral reef restoration worldwide. <i>Restoration Ecology</i> ,e13498	3.1	5
11	Identification of biomarkers indicative of barotrauma and recovery in black rockfish Sebastes melanops. <i>Journal of Fish Biology</i> , <b>2012</b> , 81, 181-96	1.9	4
10	Genetic variation in heat tolerance of the coral Platygyra daedalea offers the potential for adaptation to ocean warming		3
9	Techniques for Exploring Symbiosis-Specific Gene Expression in Cnidarian/Algal Associations <b>1998</b> , 43	5-448	2
8	Symbiosis research, technology, and education: Proceedings of the 6th International Symbiosis Society Congress held in Madison Wisconsin, USA, August 2009. <i>Symbiosis</i> , <b>2010</b> , 51, 1-12	3	1
7	Biological bulletin virtual symposium: discoveries in animal symbiosis in the bmicslage. <i>Biological Bulletin</i> , <b>2012</b> , 223, 5-6	1.5	1
6	Phylogenetic analysis of cell-cycle regulatory proteins within the Symbiodiniaceae. <i>Scientific Reports</i> , <b>2020</b> , 10, 20473	4.9	1
5			0
	Reports, 2020, 10, 20473  Tentacle patterning during pedal lacerate development differs between symbiotic and	4.9	
5	Reports, 2020, 10, 20473  Tentacle patterning during pedal lacerate development differs between symbiotic and aposymbiotic animals PeerJ, 2022, 10, e12770  Symbiosis with Dinoflagellates Alters Cnidarian Cell-Cycle Gene Expression. Cellular Microbiology,	4.9	0

The metabolic significance of symbiont community composition in the coral-algal symbiosis **2022**, 211-229