

Akihiro Takemura

List of Publications by Year in descending order

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103
papers

2,324
citations

186265

28
h-index

265206

42
g-index

104
all docs

104
docs citations

104
times ranked

1620
citing authors

#	ARTICLE	IF	CITATIONS
1	Lunar cycles and reproductive activity in reef fishes with particular attention to rabbitfishes. <i>Fish and Fisheries</i> , 2004, 5, 317-328.	5.3	140
2	Impact of different environmental factors on the circulating immunoglobulin levels in the Nile tilapia, <i>Oreochromis niloticus</i> . <i>Aquaculture</i> , 2004, 241, 491-500.	3.5	113
3	Correlation between plasma steroid hormones and vitellogenin profiles and lunar periodicity in the female golden rabbitfish, <i>Siganus guttatus</i> (Bloch). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2000, 127, 113-122.	1.6	88
4	Perception and possible utilization of moonlight intensity for reproductive activities in a lunar-synchronized spawner, the golden rabbitfish. <i>The Journal of Experimental Zoology</i> , 2004, 301A, 844-851.	1.4	76
5	mRNA expression patterns for GH, PRL, SL, IGF-I and IGF-II during altered feeding status in rabbitfish, <i>Siganus guttatus</i> . <i>General and Comparative Endocrinology</i> , 2007, 150, 196-204.	1.8	68
6	Effects of changes in environmental factors on the non-specific immune response of Nile tilapia, <i>Oreochromis niloticus</i> L.. <i>Aquaculture Research</i> , 2005, 36, 391-397.	1.8	67
7	Eggs regulate sperm flagellar motility initiation, chemotaxis and inhibition in the coral <i>Acropora digitifera</i> , <i>A. gemmifera</i> and <i>A. tenuis</i> . <i>Journal of Experimental Biology</i> , 2006, 209, 4574-4579.	1.7	64
8	Diurnal and circadian regulation of a melatonin receptor, MT1, in the golden rabbitfish, <i>Siganus guttatus</i> . <i>General and Comparative Endocrinology</i> , 2007, 150, 253-262.	1.8	63
9	A direct influence of moonlight intensity on changes in melatonin production by cultured pineal glands of the golden rabbitfish, <i>Siganus guttatus</i> . <i>Journal of Pineal Research</i> , 2006, 40, 236-241.	7.4	59
10	Molecular cloning and daily variations of the <i>Period</i> gene in a reef fish <i>Siganus guttatus</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2007, 193, 403-411.	1.6	52
11	Melatonin receptor of a reef fish with lunar-related rhythmicity: cloning and daily variations. <i>Journal of Pineal Research</i> , 2006, 41, 166-174.	7.4	49
12	The stimulatory effects of long wavelengths of light on the ovarian development in the tropical damselfish, <i>Chrysiptera cyanea</i> . <i>Aquaculture</i> , 2011, 314, 188-192.	3.5	49
13	Moonlight affects nocturnal <i>Period2</i> transcript levels in the pineal gland of the reef fish <i>Siganus guttatus</i> . <i>Journal of Pineal Research</i> , 2008, 45, 133-141.	7.4	48
14	Impacts of moonlight on fish reproduction. <i>Marine Genomics</i> , 2014, 14, 59-66.	1.1	46
15	Histological observations of seasonal reproductive and lunar-related spawning cycles in the female honeycomb grouper <i>Epinephelus merra</i> in Okinawan waters. <i>Fisheries Science</i> , 2002, 68, 872-877.	1.6	45
16	Effects of Moonlight Exposure on Plasma Melatonin Rhythms in the Seagrass Rabbitfish, <i>Siganus Canaliculatus</i> . <i>Journal of Biological Rhythms</i> , 2004, 19, 325-334.	2.6	45
17	Microtubule sliding movement in tilapia sperm flagella axoneme is regulated by Ca ²⁺ /calmodulin-dependent protein phosphorylation. <i>Cytoskeleton</i> , 2006, 63, 459-470.	4.4	43
18	Annual Changes in Oocyte Development and Serum Vitellogenin Level in the Rabbitfish <i>Siganus canaliculatus</i> (Park) in Okinawa, Southern Japan. <i>Fisheries Science</i> , 1998, 64, 44-51.	1.6	42

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19	Molecular cloning of cytochrome P450 aromatases in the protogynous wrasse, <i>Halichoeres tenuispinis</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2005, 141, 49-59.	1.6	41
20	Increase in intracellular pH induces phosphorylation of axonemal proteins for activation of flagellar motility in starfish sperm. <i>Journal of Experimental Biology</i> , 2005, 208, 4411-4418.	1.7	38
21	Lunar Phase-Dependent Expression of Cryptochrome and a Photoperiodic Mechanism for Lunar Phase-Recognition in a Reef Fish, Goldlined Spinefoot. <i>PLoS ONE</i> , 2011, 6, e28643.	2.5	37
22	Histological evidence of lunar-synchronized ovarian development and spawning in the spiny rabbitfish <i>Siganus spinus</i> (Linnaeus) around the Ryukyus. <i>Fisheries Science</i> , 2001, 67, 888-893.	1.6	35
23	Acclimation of sperm motility apparatus in seawater-acclimated euryhaline tilapia <i>Oreochromis mossambicus</i> . <i>Journal of Experimental Biology</i> , 2004, 207, 337-345.	1.7	33
24	Expression of the melatonin receptor <i>Mel1c</i> in neural tissues of the reef fish <i>Siganus guttatus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2007, 147, 103-111.	1.8	31
25	Immunochemical identification and partial characterization of female-specific serum proteins in white-edged rockfish, <i>Sebastes taczanowskii</i> . <i>Environmental Biology of Fishes</i> , 1991, 30, 49-56.	1.0	30
26	Effect of cortisol on melatonin production by the pineal organ of tilapia, <i>Oreochromis mossambicus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2010, 155, 84-90.	1.8	30
27	Fish sleeping under sandy bottom: Interplay of melatonin and clock genes. <i>General and Comparative Endocrinology</i> , 2012, 177, 37-45.	1.8	30
28	Lunar Synchronization of in Vitro Steroidogenesis in Ovaries of the Golden Rabbitfish, <i>Siganus guttatus</i> (Bloch). <i>General and Comparative Endocrinology</i> , 2002, 125, 1-8.	1.8	29
29	Hormonal changes in relation to lunar periodicity in the testis of the forktail rabbitfish, <i>Siganus argenteus</i> . <i>General and Comparative Endocrinology</i> , 2003, 131, 302-309.	1.8	29
30	Temporal changes in liver carbohydrate metabolism associated with seawater transfer in <i>Oreochromis mossambicus</i> . <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1998, 119, 721-728.	1.6	28
31	Estradiol impairs hyposmmoregulatory capacity in the euryhaline tilapia, <i>Oreochromis mossambicus</i> . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001, 281, R1161-R1168.	1.8	28
32	Environmental control of gonadal development in the tropical damselfish <i>Chrysiptera cyanea</i> . <i>Marine Biology Research</i> , 2009, 5, 462-469.	0.7	28
33	Effect of temperature and photoperiod on the reproductive condition and performance of a tropical damselfish <i>Chrysiptera cyanea</i> during different phases of the reproductive season. <i>Fisheries Science</i> , 2010, 76, 769-776.	1.6	26
34	Influence of moonlight on mRNA expression patterns of melatonin receptor subtypes in the pineal organ of a tropical fish. <i>Marine Genomics</i> , 2014, 14, 67-70.	1.1	25
35	Hypothalamic Expression and Moonlight-Independent Changes of <i>Cry3</i> and <i>Per4</i> Implicate Their Roles in Lunar Clock Oscillators of the Lunar-Responsive Goldlined Spinefoot. <i>PLoS ONE</i> , 2014, 9, e109119.	2.5	24
36	Annual and lunar-synchronized ovarian activity in two rabbitfish species in the Chuuk lagoon, Micronesia. <i>Fisheries Science</i> , 2006, 72, 166-172.	1.6	23

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37	Photic and circadian regulation of melatonin production in the Mozambique tilapia <i>Oreochromis mossambicus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2009, 152, 77-82.	1.8	23
38	Possible roles of photoperiod and melatonin in reproductive activity via changes in dopaminergic activity in the brain of a tropical damselfish, <i>Chrysiptera cyanea</i> . <i>General and Comparative Endocrinology</i> , 2013, 194, 240-247.	1.8	23
39	Effects of Ambient Salinities on Carbohydrate Metabolism in Two Species of Tilapia <i>Oreochromis mossambicus and O. niloticus</i>. <i>Fisheries Science</i> , 1997, 63, 338-343.	1.6	22
40	Influence of light-dark and lunar cycles on the ocular melatonin rhythms in the seagrass rabbitfish, a lunar-synchronized spawner. <i>Journal of Pineal Research</i> , 2004, 37, 122-128.	7.4	21
41	Lunar synchronization of testicular development and steroidogenesis in rabbitfish. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2001, 129, 367-373.	1.6	20
42	Hyperosmotic shock adaptation by cortisol involves upregulation of branchial osmotic stress transcription factor 1 gene expression in Mozambique Tilapia. <i>General and Comparative Endocrinology</i> , 2010, 165, 321-329.	1.8	20
43	Diurnal expression patterns of neurohypophysial hormone genes in the brain of the threespot wrasse <i>Halichoeres trimaculatus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2011, 158, 490-497.	1.8	20
44	Annual changes in testicular activity and plasma steroid hormones in the golden rabbitfish <i>iganus guttatus</i> (Bloch). <i>Fisheries Science</i> , 2000, 66, 894-900.	1.6	19
45	Food availability as a possible determinant for initiation and termination of reproductive activity in the tropical damselfish <i>Chrysiptera cyanea</i> . <i>Marine Biology Research</i> , 2012, 8, 154-162.	0.7	19
46	Effects of different colors of light on melatonin suppression and expression analysis of Aanat1 and melanopsin in the eye of a tropical damselfish. <i>General and Comparative Endocrinology</i> , 2014, 204, 158-165.	1.8	19
47	Moonlight controls lunar-phase-dependency and regular oscillation of clock gene expressions in a lunar-synchronized spawner fish, Goldlined spinefoot. <i>Scientific Reports</i> , 2018, 8, 6208.	3.3	19
48	Light- and circadian-controlled genes respond to a broad light spectrum in Puffer Fish-derived Fugu eye cells. <i>Scientific Reports</i> , 2017, 7, 46150.	3.3	18
49	Reproductive development of the threatened giant grouper <i>Epinephelus lanceolatus</i> . <i>Aquaculture</i> , 2019, 509, 1-7.	3.5	18
50	Dopaminergic activity in the brain of a tropical wrasse in response to changes in light and hydrostatic pressure. <i>General and Comparative Endocrinology</i> , 2010, 166, 513-519.	1.8	17
51	Tissue-specific suppression of estrogen, androgen and glucocorticoid receptor gene expression in feral vitellogenic male Mozambique tilapia. <i>Chemosphere</i> , 2007, 69, 32-40.	8.2	16
52	Tropical monsoon environments and the reproductive cycle of the orange-spotted spinefoot <i>iganus guttatus</i> . <i>Marine Biology Research</i> , 2009, 5, 179-185.	0.7	16
53	Molecular cloning of kisspeptin receptor genes (gpr54-1 and gpr54-2) and their expression profiles in the brain of a tropical damselfish during different gonadal stages. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2017, 203, 9-16.	1.8	16
54	Role of the Tidal Cycle in the Gonadal Development and Spawning of the Tropical Wrasse <i>Halichoeres trimaculatus</i> . <i>Zoological Science</i> , 2008, 25, 572-579.	0.7	14

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55	Roles of Calmodulin and Calcium/Calmodulin-Dependent Protein Kinase in Flagellar Motility Regulation in the Coral <i>Acropora Digitifera</i> . <i>Marine Biotechnology</i> , 2009, 11, 118-123.	2.4	13
56	Lunar-synchronized reproductive activity in the pencil-streaked rabbitfish <i>Siganus doliatus</i> in the Chuuk Lagoon, Micronesia. <i>Ichthyological Research</i> , 2006, 53, 179-181.	0.8	12
57	Masculinization in juvenile longtooth grouper, <i>Epinephelus bruneus</i> , with aromatase inhibitor: changes in GtH subunit mRNA expression and steroids hormone levels. <i>Animal Cells and Systems</i> , 2012, 16, 127-134.	2.2	11
58	Existence of a photoinducible phase for ovarian development and photoperiod-related alteration of clock gene expression in a damselfish. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2015, 188, 32-39.	1.8	11
59	Induction of Gonadal Development in Protogynous Grouper with Orally Delivered FSH DNA. <i>Marine Biotechnology</i> , 2019, 21, 697-706.	2.4	11
60	Involvement of melatonin in transducing moon-related signals into the reproductive network of the female honeycomb grouper <i>Epinephelus merra</i> . <i>General and Comparative Endocrinology</i> , 2019, 282, 113211.	1.8	11
61	Early Sex Distinction in Greater Amberjack <i>Seriola dumerili</i> Using Skin Mucus.. <i>Nippon Suisan Gakkaishi</i> , 1996, 62, 62-67.	0.1	10
62	Expression of type II iodothyronine deiodinase gene in the brain of a tropical spinefoot, <i>Siganus guttatus</i> . <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2011, 160, 447-452.	1.8	10
63	Induction of <i>in vitro</i> vitellogenin synthesis by bisphenol, nonylphenol and octylphenol in Chinese minnow (<i>phoxinus oxycephalus</i>) hepatocytes. <i>Korean Journal of Biological Sciences</i> , 2003, 7, 227-235.	0.1	9
64	Semilunar spawning periodicity in brackish damsel <i>Pomacentrus taeniometopon</i> . <i>Fisheries Science</i> , 2006, 72, 1256-1260.	1.6	9
65	Molecular cloning and expression of long-wavelength-sensitive cone opsin in the brain of a tropical damselfish. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2011, 160, 486-492.	1.8	9
66	Effects of hydrostatic pressure on monoaminergic activity in the brain of a tropical wrasse, <i>Halicoeres trimaculatus</i> : Possible implication for controlling tidal-related reproductive activity. <i>General and Comparative Endocrinology</i> , 2012, 175, 173-179.	1.8	9
67	Changes in mRNA abundance of insulin-like growth factors in the brain and liver of a tropical damselfish, <i>Chrysiptera cyanea</i> , in relation to seasonal and food-manipulated reproduction. <i>General and Comparative Endocrinology</i> , 2018, 269, 112-121.	1.8	9
68	Involvement of Estrogen and Its Receptors in Morphological Changes in the Eyes of the Japanese Eel, <i>Anguilla japonica</i> , in the Process of Artificially-Induced Maturation. <i>Cells</i> , 2019, 8, 310.	4.1	9
69	Molecular approaches underlying the oogenic cycle of the scleractinian coral, <i>Acropora tenuis</i> . <i>Scientific Reports</i> , 2020, 10, 9914.	3.3	9
70	Lunar synchronization of sperm motility in the spiny rabbitfish <i>Siganus spinus</i> (Linnaeus). <i>Fisheries Science</i> , 2002, 68, 706-708.	1.6	8
71	Moonlight affects mRNA abundance of arylalkylamine N-acetyltransferase in the retina of a lunar-synchronized spawner, the goldlined spinefoot. <i>Journal of Experimental Zoology</i> , 2013, 319, 505-516.	1.2	8
72	Molecular cloning of insulin-like growth factor 3 (igf3) and its expression in the tissues of a female damselfish, <i>Chrysiptera cyanea</i> , in relation to seasonal and food-manipulated reproduction. <i>General and Comparative Endocrinology</i> , 2020, 295, 113479.	1.8	8

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73	Moonlight is a key entrainer of lunar clock in the brain of the tropical grouper with full moon preference. <i>BMC Zoology</i> , 2020, 5, .	1.0	8
74	Rhodopsin in the Dark Hot Sea: Molecular Analysis of Rhodopsin in a Snailfish, <i>Careproctus rhodomelas</i> , Living near the Deep-Sea Hydrothermal Vent. <i>PLoS ONE</i> , 2015, 10, e0135888.	2.5	7
75	The mRNA expression patterns of kisspeptins, GnRHs, and gonadotropins in the brain and pituitary gland of a tropical damselfish, <i>Chrysiptera cyanea</i> , during the reproductive cycle. <i>Fish Physiology and Biochemistry</i> , 2020, 46, 277-291.	2.3	7
76	Annual patterns of ocular melatonin level in the female grass puffer, <i>Takifugu alboplumbeus</i> : possible involvement in seasonal reproductive response. <i>Fish Physiology and Biochemistry</i> , 2020, 46, 787-801.	2.3	7
77	Lunar Clock in Fish Reproduction. , 2014, , 163-178.		7
78	Investigation on the validity of 3D micro-CT imaging in the fish brain. <i>Journal of Neuroscience Methods</i> , 2019, 328, 108416.	2.5	6
79	Effect of short- and long-term melatonin treatments on the reproductive activity of the tropical damselfish <i>Chrysiptera cyanea</i> . <i>Fish Physiology and Biochemistry</i> , 2022, 48, 253-262.	2.3	6
80	Expression patterns of type II and III iodothyronine deiodinase genes in the liver of the goldlined spinefoot, <i>Siganus guttatus</i> . <i>Fisheries Science</i> , 2011, 77, 301-311.	1.6	5
81	Increase in telencephalic dopamine and cerebellar norepinephrine contents by hydrostatic pressure in goldfish: the possible involvement in hydrostatic pressure-related locomotion. <i>Fish Physiology and Biochemistry</i> , 2015, 41, 1105-1115.	2.3	5
82	Expression profiles of types 2 and 3 iodothyronine deiodinase genes in relation to vitellogenesis in a tropical damselfish, <i>Chrysiptera cyanea</i> . <i>General and Comparative Endocrinology</i> , 2020, 285, 113264.	1.8	5
83	Gene expression patterns of novel visual and non-visual opsin families in immature and mature Japanese eel males. <i>PeerJ</i> , 2020, 8, e8326.	2.0	5
84	Molecular cloning and expression of connexin 32.3 cDNA in the ovary from the red seabream (<i>Pagrus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14 767-775.	1.6	4
85	Annual and lunar breeding rhythmicity in females of the terrestrial hermit crab <i>Coenobita rugosus</i> H. Milne Edwards, 1837 (Decapoda: Anomura: Coenobitidae) in Okinawa, Japan. <i>Journal of Crustacean Biology</i> , 2019, 39, 493-499.	0.8	4
86	Effects of neurotoxin 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) treatment on ovarian development of the sapphire devil, <i>Chrysiptera cyanea</i> . <i>Fish Physiology and Biochemistry</i> , 2015, 41, 61-71.	2.3	3
87	Circadian rhythm of melatonin secretion and growth-related gene expression in the tiger puffer <i>Takifugu rubripes</i> . <i>Fisheries and Aquatic Sciences</i> , 2017, 20, .	0.8	3
88	Daily expression of a clock gene in the brain and pituitary of the Malabar grouper (<i>Epinephelus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14 1.8 3	1.8	3
89	Daily variation of D2 dopamine receptor transcription in the brain of the Japanese eel <i>Anguilla japonica</i> and its regulation with dopamine and melatonin. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2020, 240, 110581.	1.8	3
90	Does estrogen regulate vitellogenin synthesis in corals?. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2021, 255, 110910.	1.8	3

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91	Testis development in the Japanese eel is affected by photic signals through melatonin secretion. PeerJ, 2021, 9, e12289.	2.0	3
92	Sperm motility adaptation to ionâ€differing aquatic environments in the Tanganyikan cichlid, <i>Astatotilapia burtoni</i>. Journal of Experimental Zoology, 2010, 313A, 169-177.	1.2	2
93	Long-afterglow phosphorescent pigment is a potent tool for manipulation of reproductive performance in the tropical damselfish <i>Chrysiptera cyanea</i> . Fisheries Science, 2012, 78, 337-342.	1.6	2
94	Importance of sandy bottoms in coral reefs to the oscillation of daily rhythms in the tropical wrasse <i>Halichoeres trimaculatus</i>. Chronobiology International, 2017, 34, 1014-1025.	2.0	2
95	Tide-related Changes in mRNA Abundance of Aromatases and Estrogen Receptors in the Ovary and Brain of the Threespot Wrasse <i>Halichoeres trimaculatus</i> . Ocean Science Journal, 2018, 53, 239-249.	1.3	2
96	Verification of differentially expressed genes in relation to hydrostatic pressure in the brain of two wrasse species with highâ€tide preference in spawning. Journal of Fish Biology, 2020, 97, 1027-1038.	1.6	2
97	Effects of temperature and melatonin on dayâ€night expression patterns of arginine vasotocin and isotocin mRNA in the diencephalon of a temperate wrasse <i>Halichoeres tenuispinis</i> . Fish Physiology and Biochemistry, 2018, 44, 817-828.	2.3	1
98	Food availability alters expression profiles of genes in relation to reproduction and nutrition in the females of tropical damselfish (<i>Chrysiptera cyanea</i>). Journal of Experimental Zoology Part A: Ecological and Integrative Physiology, 2020, 333, 619-628.	1.9	0
99	ã,µãƒã,çã«ç”YæãªMã,«éšé;žã©ç” Éãµãƒã,ããƒã«ãšã¼/4ãªMæœãª½±éÿ;. Comparative Endocrinology, 2010, 36, 101-106.		0
100	Ovarian Development and Larval Release of the Hermit Crab <i>Clibanarius eurysternus</i> (Hilgendorf, 1879) (Decapoda: Anomura: Diogenidae) in Okinawa, Japan. Zoological Science, 2021, 38, 558-564.	0.7	0
101	Coral reef research in Sesoko Island -50 years anniversary of Sesoko Station, University of the Ryukyus-. Galaxea, 2022, 24, 1-4.	0.7	0
102	Induction of spawning under artificial moonlight in the honeycomb grouper <i>Epinephelus merra</i>, a lunar-synchronized spawner. Biological Rhythm Research, 2022, 53, 1880-1893.	0.9	0
103	Effects of light-emitting diode wavelengths on reproduction in <i>Acropora intermedia</i> and <i>A. muricata</i>. Japanese Journal of Benthology, 2021, 76, 59-72.	0.1	0