

Russell D Fernald

List of Publications by Year in descending order

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134
papers

11,128
citations

26630

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31849

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139
all docs

139
docs citations

139
times ranked

7786
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of testes mass by androgen receptor paralogs in a cichlid. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2022, 192, 107-114.	1.5	4
2	A behavioral logic underlying aggression in an African cichlid fish. <i>Ethology</i> , 2021, 127, 572-581.	1.1	10
3	Modular genetic control of social status in a cichlid fish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28167-28174.	7.1	48
4	Genome-wide effects of social status on DNA methylation in the brain of a cichlid fish, <i>Astatotilapia burtoni</i> . <i>BMC Genomics</i> , 2019, 20, 699.	2.8	10
5	Mechanistic target of rapamycin (mTOR) implicated in plasticity of the reproductive axis during social status transitions. <i>General and Comparative Endocrinology</i> , 2019, 282, 113209.	1.8	5
6	Behavioral evolution contributes to hindbrain diversification among Lake Malawi cichlid fish. <i>Scientific Reports</i> , 2019, 9, 19994.	3.3	10
7	Hormonal regulation of social ascent and temporal patterns of behavior in an African cichlid. <i>Hormones and Behavior</i> , 2019, 107, 83-95.	2.1	31
8	The Value of Comparative Animal Research: Krogh's Principle Facilitates Scientific Discoveries. <i>Policy Insights From the Behavioral and Brain Sciences</i> , 2018, 5, 118-125.	2.4	14
9	<i>Astatotilapia burtoni</i> : A Model System for Analyzing the Neurobiology of Behavior. <i>ACS Chemical Neuroscience</i> , 2018, 9, 1951-1962.	3.5	61
10	Behavior-dependent <i>cis</i> regulation reveals genes and pathways associated with bower building in cichlid fishes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11081-E11090.	7.1	42
11	Cognitive skills and the evolution of social systems. <i>Journal of Experimental Biology</i> , 2017, 220, 103-113.	1.7	36
12	Rhythmic expressed clock regulates the transcription of proliferating cellular nuclear antigen in teleost retina. <i>Experimental Eye Research</i> , 2017, 160, 21-30.	2.6	6
13	Differential activation of vasotocin neurons in contexts that elicit aggression and courtship. <i>Behavioural Brain Research</i> , 2017, 317, 188-203.	2.2	34
14	The Repeated Evolution of Behavior. <i>Frontiers in Ecology and Evolution</i> , 2017, 4, .	2.2	11
15	Social Regulation of Sex: How the Brain Controls Reproductive Circuits. , 2017, , 19-30.		2
16	Polygenic sex determination in the cichlid fish <i>Astatotilapia burtoni</i> . <i>BMC Genomics</i> , 2016, 17, 835.	2.8	61
17	Identification of prohormones and pituitary neuropeptides in the African cichlid, <i>Astatotilapia burtoni</i> . <i>BMC Genomics</i> , 2016, 17, 660.	2.8	22
18	Dopaminergic inhibition of gonadotropin-releasing hormone neurons in the cichlid fish, <i>Astatotilapia burtoni</i> . <i>Journal of Experimental Biology</i> , 2016, 219, 3861-3865.	1.7	25

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19	Two types of dominant male cichlid fish: behavioral and hormonal characteristics. <i>Biology Open</i> , 2016, 5, 1061-1071.	1.2	19
20	A Neural Basis for Control of Cichlid Female Reproductive Behavior by Prostaglandin F ₂ ±. <i>Current Biology</i> , 2016, 26, 943-949.	3.9	84
21	Timing reproduction in teleost fish: cues and mechanisms. <i>Current Opinion in Neurobiology</i> , 2016, 38, 57-62.	4.2	43
22	Social Crowding during Development Causes Changes in GnRH1 DNA Methylation. <i>PLoS ONE</i> , 2015, 10, e0142043.	2.5	12
23	Epigenetic DNA Methylation Linked to Social Dominance. <i>PLoS ONE</i> , 2015, 10, e0144750.	2.5	37
24	Social behaviour: can it change the brain?. <i>Animal Behaviour</i> , 2015, 103, 259-265.	1.9	23
25	The effect of observers on behavior and the brain during aggressive encounters. <i>Behavioural Brain Research</i> , 2015, 292, 174-183.	2.2	9
26	Electrical synapses connect a network of gonadotropin releasing hormone neurons in a cichlid fish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3805-3810.	7.1	39
27	Social regulation of cortisol receptor gene expression. <i>Journal of Experimental Biology</i> , 2014, 217, 3221-8.	1.7	17
28	The Dynamic Nature of DNA Methylation: A Role in Response to Social and Seasonal Variation. <i>Integrative and Comparative Biology</i> , 2014, 54, 68-76.	2.0	52
29	Brains over Brawn: Experience overcomes a size disadvantage in fish social hierarchies. <i>Journal of Experimental Biology</i> , 2014, 217, 1462-8.	1.7	30
30	Communication about social status. <i>Current Opinion in Neurobiology</i> , 2014, 28, 1-4.	4.2	36
31	The genomic substrate for adaptive radiation in African cichlid fish. <i>Nature</i> , 2014, 513, 375-381.	27.8	874
32	Social status differences regulate the serotonergic system of a cichlid fish, <i>Astatotilapia burtoni</i> . <i>Journal of Experimental Biology</i> , 2014, 217, 2680-90.	1.7	42
33	Cognitive Skills Needed for Social Hierarchies. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2014, 79, 229-236.	1.1	23
34	Social Opportunity Rapidly Regulates Expression of CRF and CRF Receptors in the Brain during Social Ascent of a Teleost Fish, <i>Astatotilapia burtoni</i> . <i>PLoS ONE</i> , 2014, 9, e96632.	2.5	39
35	Social descent with territory loss causes rapid behavioral, endocrine, and transcriptional changes in the brain. <i>Journal of Experimental Biology</i> , 2013, 216, 3656-66.	1.7	67
36	Social Regulation of Male Reproductive Plasticity in an African Cichlid Fish. <i>Integrative and Comparative Biology</i> , 2013, 53, 938-950.	2.0	77

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37	Tol2-Mediated Generation of a Transgenic Haplochromine Cichlid, <i>Astatotilapia burtoni</i> . PLoS ONE, 2013, 8, e77647.	2.5	39
38	The African Cichlid Fish <i>Astatotilapia burtoni</i> Uses Acoustic Communication for Reproduction: Sound Production, Hearing, and Behavioral Significance. PLoS ONE, 2012, 7, e37612.	2.5	95
39	Subordinate male cichlids retain reproductive competence during social suppression. Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 434-443.	2.6	41
40	Social information changes the brain. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17194-17199.	7.1	127
41	Characterization of cell proliferation throughout the brain of the African cichlid fish <i>Astatotilapia burtoni</i> and its regulation by social status. Journal of Comparative Neurology, 2012, 520, 3471-3491.	1.6	71
42	Contextual chemosensory urine signaling in an African cichlid fish. Journal of Experimental Biology, 2012, 215, 68-74.	1.7	97
43	Social Control of the Brain. Annual Review of Neuroscience, 2012, 35, 133-151.	10.7	69
44	Social Context Influences Aggressive and Courtship Behavior in a Cichlid Fish. PLoS ONE, 2012, 7, e32781.	2.5	94
45	Effects of stress and motivation on performing a spatial task. Neurobiology of Learning and Memory, 2011, 95, 277-285.	1.9	44
46	Visual Information Alone Changes Behavior and Physiology during Social Interactions in a Cichlid Fish (<i>Astatotilapia burtoni</i>). PLoS ONE, 2011, 6, e20313.	2.5	66
47	Animal Cooperation: Keeping a Clean(ing) Reputation. Current Biology, 2011, 21, R508-R510.	3.9	3
48	Plasticity of the Reproductive Axis Caused by Social Status Change in an African Cichlid Fish: I. Pituitary Gonadotropins. Endocrinology, 2011, 152, 281-290.	2.8	64
49	Plasticity of the Reproductive Axis Caused by Social Status Change in an African Cichlid Fish: II. Testicular Gene Expression and Spermatogenesis. Endocrinology, 2011, 152, 291-302.	2.8	67
50	Systems biology meets behavior. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17861-17862.	7.1	1
51	Social Regulation of Gene Expression in the Hypothalamic-Pituitary-Gonadal Axis. Physiology, 2011, 26, 412-423.	3.1	116
52	Steroid receptor expression in the fish inner ear varies with sex, social status, and reproductive state. BMC Neuroscience, 2010, 11, 58.	1.9	77
53	Neurobiology of behavior. Current Opinion in Neurobiology, 2010, 20, 746-747.	4.2	1
54	Female genomic response to mate information. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21176-21180.	7.1	65

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55	What do fish make of mirror images?. <i>Biology Letters</i> , 2010, 6, 744-747.	2.3	125
56	Regulation of gonadotropin-releasing hormone-1 gene transcription by members of the purine-rich element-binding protein family. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2010, 298, E524-E533.	3.5	7
57	Reproductive status regulates expression of sex steroid and GnRH receptors in the olfactory bulb. <i>Behavioural Brain Research</i> , 2010, 213, 208-217.	2.2	60
58	Behavioral and physiological plasticity: Rapid changes during social ascent in an African cichlid fish. <i>Hormones and Behavior</i> , 2010, 58, 230-240.	2.1	147
59	Cytoarchitecture of a Cichlid Fish Telencephalon. <i>Brain, Behavior and Evolution</i> , 2009, 74, 110-120.	1.7	55
60	Gonadotropin-Releasing Hormone Receptors: Where Did They Come From?. <i>Endocrinology</i> , 2009, 150, 2507-2508.	2.8	1
61	Genes and Social Behavior. <i>Science</i> , 2008, 322, 896-900.	12.6	546
62	2074v Alpha1-Beta1 and Alpha6-Beta1-Integrin. , 2008, , 1-1.		0
63	Heterogeneous nuclear ribonucleoprotein A/B and G inhibits the transcription of gonadotropin-releasing-hormone 1. <i>Molecular and Cellular Neurosciences</i> , 2008, 37, 69-84.	2.2	14
64	Color change as a potential behavioral strategy. <i>Hormones and Behavior</i> , 2008, 54, 463-470.	2.1	70
65	Social Regulation of the Brain: Sex, Size and Status. <i>Novartis Foundation Symposium</i> , 2008, , 169-186.	1.1	23
66	Expression of arginine vasotocin in distinct preoptic regions is associated with dominant and subordinate behaviour in an African cichlid fish. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 2393-2402.	2.6	181
67	Expression, Structure, Function, and Evolution of Gonadotropin-Releasing Hormone (GnRH) Receptors GnRH-R1SHS and GnRH-R2PEY in the Teleost, <i>Astatotilapia burtoni</i> . <i>Endocrinology</i> , 2007, 148, 5060-5071.	2.8	59
68	Social dominance regulates androgen and estrogen receptor gene expression. <i>Hormones and Behavior</i> , 2007, 51, 164-170.	2.1	109
69	Androgen receptors in a cichlid fish, <i>Astatotilapia burtoni</i> : Structure, localization, and expression levels. <i>Journal of Comparative Neurology</i> , 2007, 504, 57-73.	1.6	74
70	Fish can infer social rank by observation alone. <i>Nature</i> , 2007, 445, 429-432.	27.8	466
71	Casting a Genetic Light on the Evolution of Eyes. <i>Science</i> , 2006, 313, 1914-1918.	12.6	132
72	Androgen level and male social status in the African cichlid, <i>Astatotilapia burtoni</i> . <i>Behavioural Brain Research</i> , 2006, 166, 291-295.	2.2	110

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73	Differential social regulation of two pituitary gonadotropin-releasing hormone receptors. <i>Behavioural Brain Research</i> , 2006, 170, 342-346.	2.2	38
74	Distributions of two gonadotropin-releasing hormone receptor types in a cichlid fish suggest functional specialization. <i>Journal of Comparative Neurology</i> , 2006, 495, 314-323.	1.6	57
75	Physiological consequences of social descent: studies in <i>Astatotilapia burtoni</i> . <i>Journal of Endocrinology</i> , 2006, 190, 183-190.	2.6	38
76	IGF-1 produced by cone photoreceptors regulates rod progenitor proliferation in the teleost retina. <i>Developmental Brain Research</i> , 2005, 154, 91-100.	1.7	31
77	Evolutionary conservation of the immediate-early gene response in a teleost. <i>Journal of Comparative Neurology</i> , 2005, 481, 220-232.	1.6	64
78	Female affiliative preference depends on reproductive state in the African cichlid fish, <i>Astatotilapia burtoni</i> . <i>Behavioral Ecology</i> , 2005, 16, 83-88.	2.2	44
79	Rapid Behavioral and Genomic Responses to Social Opportunity. <i>PLoS Biology</i> , 2005, 3, e363.	5.6	249
80	Behavioral coping strategies in a cichlid fish: the role of social status and acute stress response in direct and displaced aggression. <i>Hormones and Behavior</i> , 2005, 47, 336-342.	2.1	62
81	Comprehensive Algorithm for Quantitative Real-Time Polymerase Chain Reaction. <i>Journal of Computational Biology</i> , 2005, 12, 1047-1064.	1.6	1,143
82	Two Visual Processing Pathways Are Targeted by Gonadotropin-Releasing Hormone in the Retina. <i>Brain, Behavior and Evolution</i> , 2005, 66, 1-9.	1.7	48
83	Evolving eyes. <i>International Journal of Developmental Biology</i> , 2004, 48, 701-705.	0.6	39
84	Social Regulation of the Electrical Properties of Gonadotropin-Releasing Hormone Neurons in a Cichlid Fish (<i>Astatotilapia burtoni</i>)1. <i>Biology of Reproduction</i> , 2004, 71, 909-918.	2.7	50
85	Timing and location of rhodopsin expression in newly born rod photoreceptors in the adult teleost retina. <i>Developmental Brain Research</i> , 2004, 151, 193-197.	1.7	8
86	Eyes: Variety, Development and Evolution. <i>Brain, Behavior and Evolution</i> , 2004, 64, 141-147.	1.7	36
87	Multiple Corticosteroid Receptors in a Teleost Fish: Distinct Sequences, Expression Patterns, and Transcriptional Activities. <i>Endocrinology</i> , 2003, 144, 4226-4236.	2.8	237
88	How does Behavior Change the Brain? Multiple Methods to Answer Old Questions. <i>Integrative and Comparative Biology</i> , 2003, 43, 771-779.	2.0	16
89	Social regulation of gonadotropin-releasing hormone. <i>Journal of Experimental Biology</i> , 2002, 205, 2567-2581.	1.7	167
90	Social regulation of the brain: sex, size and status. <i>Novartis Foundation Symposium</i> , 2002, 244, 169-84; discussion 184-6, 203-6, 253-7.	1.1	9

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91	Social regulation of gonadotropin-releasing hormone. <i>Journal of Experimental Biology</i> , 2002, 205, 2567-81.	1.7	135
92	Social Status Controls Somatostatin Neuron Size and Growth. <i>Journal of Neuroscience</i> , 2000, 20, 4740-4744.	3.6	85
93	Evolution of eyes. <i>Current Opinion in Neurobiology</i> , 2000, 10, 444-450.	4.2	125
94	Regional Expression of mRNA Encoding a Second Form of Gonadotropin-Releasing Hormone in the Macaque Brain. <i>Endocrinology</i> , 1999, 140, 1945-1948.	2.8	105
95	Gonadotropin-Releasing Hormone Genes: Phylogeny, Structure, and Functions. <i>Frontiers in Neuroendocrinology</i> , 1999, 20, 224-240.	5.2	278
96	Nasotemporal asymmetry during teleost retinal growth: preserving an area of specialization. <i>Journal of Neurobiology</i> , 1999, 41, 435-442.	3.6	17
97	Second form of gonadotropin-releasing hormone in mouse: immunocytochemistry reveals hippocampal and periventricular distribution. <i>FEBS Letters</i> , 1999, 448, 289-291.	2.8	35
98	Genomic Structure and Expression Sites of Three Gonadotropin-Releasing Hormone Genes in One Species. <i>General and Comparative Endocrinology</i> , 1998, 112, 17-25.	1.8	79
99	Ontogeny of Gonadotropin-Releasing Hormone (GnRH) Gene Expression Reveals a Distinct Origin for GnRH-Containing Neurons in the Midbrain. <i>General and Comparative Endocrinology</i> , 1998, 112, 322-329.	1.8	54
100	The embryogenesis of rod photoreceptors in the teleost fish retina, <i>Haplochromis burtoni</i> . <i>Developmental Brain Research</i> , 1998, 108, 217-227.	1.7	27
101	Cell death precedes rod neurogenesis in embryonic teleost retinal development. <i>Developmental Brain Research</i> , 1998, 111, 143-146.	1.7	25
102	Cell movement and cell cycle dynamics in the retina of the adult teleost <i>Haplochromis burtoni</i> . , 1997, 388, 435-443.		18
103	Stress and Dominance in a Social Fish. <i>Journal of Neuroscience</i> , 1997, 17, 6463-6469.	3.6	257
104	Androgen Regulation of Hypothalamic Neurons Containing Gonadotropin-Releasing Hormone in a Cichlid Fish: Integration with Social Cues. <i>Hormones and Behavior</i> , 1996, 30, 216-226.	2.1	81
105	Nonuniform distribution of cell proliferation in the adult teleost retina. <i>Brain Research</i> , 1996, 712, 40-44.	2.2	22
106	Localization and expression of insulin-like growth factor in the teleost retina. <i>Visual Neuroscience</i> , 1995, 12, 457-461.	1.0	22
107	New Rods Move before Differentiating in Adult Teleost Retina. <i>Developmental Biology</i> , 1995, 170, 136-141.	2.0	40
108	Regulation of cell division and rod differentiation in the teleost retina. <i>Developmental Brain Research</i> , 1993, 76, 183-187.	1.7	63

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109	Retinal transformation at metamorphosis in the winter flounder (<i>Pseudopleuronectes</i>)	1.0	60
110	Photoreceptor spectral absorbance in larval and adult winter flounder (<i>Pseudopleuronectes</i>)	1.0	58
111	Hypertrophy of gonadotropin releasing hormone-containing neurons after castration in the teleost, <i>Haplochromis burtoni</i> . Journal of Neurobiology, 1992, 23, 1084-1093.	3.6	33
112	Retinal growth and cell addition during embryogenesis in the teleost, <i>Haplochromis burtoni</i> . Journal of Comparative Neurology, 1992, 321, 193-208.	1.6	82
113	Castration Lowers Aggression but not Social Dominance in Male <i>Haplochromis burtoni</i> (Cichlidae). Ethology, 1992, 90, 247-255.	1.1	37
114	Teleost vision: Seeing while growing. The Journal of Experimental Zoology, 1990, 256, 167-180.	1.4	78
115	Metamorphosis and fish vision. Journal of Neurobiology, 1990, 21, 1037-1052.	3.6	99
116	Social control of neuronal soma size. Journal of Neurobiology, 1990, 21, 1180-1188.	3.6	154
117	Circadian rhythm and light regulate opsin mRNA in rod photoreceptors. Nature, 1989, 337, 454-457.	27.8	206
118	More than meets the eye. Behavioral and Brain Sciences, 1987, 10, 378-379.	0.7	3
119	Eye movements in the African cichlid fish, <i>Haplochromis burtoni</i> . Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1985, 156, 199-208.	1.6	16
120	Spectral sensitivity of the African cichlid fish, <i>Haplochromis burtoni</i> . Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1985, 157, 247-253.	1.6	26
121	The organization of retinal projections to the diencephalon and pretectum in the cichlid fish, <i>Haplochromis burtoni</i> . Journal of Comparative Neurology, 1985, 235, 360-374.	1.6	45
122	The organization of the diencephalon and the pretectum in the cichlid fish, <i>Haplochromis burtoni</i> . Journal of Comparative Neurology, 1985, 238, 202-217.	1.6	110
123	Optical quality during crystalline lens growth (reply). Nature, 1984, 312, 292-292.	27.8	2
124	Neuroethology according to Hoyle. Behavioral and Brain Sciences, 1984, 7, 387-388.	0.7	0
125	Maintenance of optical quality during crystalline lens growth. Nature, 1983, 301, 618-620.	27.8	88
126	Social Control of Developmental Rate in the African Cichlid, <i>Haplochromis burtoni</i> . Zeitschrift für Tierpsychologie, 1982, 60, 66-82.	0.2	79

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127	Retinal projections in the African cichlid fish, <i>Haplochromis burtoni</i> . Journal of Comparative Neurology, 1982, 206, 379-389.	1.6	47
128	Genesis of rods in teleost fish retina. Nature, 1981, 293, 141-142.	27.8	260
129	Response of Male Cichlid Fish, <i>Haplochromis burtoni</i> , Reared in Isolation to Models of Conspecifics. Zeitschrift für Tierpsychologie, 1980, 54, 85-93.	0.2	19
130	A Sampled Randomization Test for Examining Single Cells of Behavioural Transition Matrices. Behaviour, 1979, 69, 217-227.	0.8	7
131	Field study of <i>Haplochromis burtoni</i> : Quantitative behavioural observations. Animal Behaviour, 1977, 25, 964-975.	1.9	236
132	Quantitative behavioural observations of <i>Haplochromis burtoni</i> under semi-natural conditions. Animal Behaviour, 1977, 25, 643-653.	1.9	154
133	Field study of <i>Haplochromis burtoni</i> : habitats and co-habitant. Environmental Biology of Fishes, 1977, 2, 299-308.	1.0	117
134	Fast body turns in a cichlid fish. Nature, 1975, 258, 228-229.	27.8	35