Svante Winberg

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The zebrafish Multivariate Concentric Square Field: A Standardized Test for Behavioral Profiling of Zebrafish (Danio rerio). Frontiers in Behavioral Neuroscience, 2022, 16, 744533.	2.0	5
2	Sex-Specific Effects of Acute Ethanol Exposure on Locomotory Activity and Exploratory Behavior in Adult Zebrafish (Danio rerio). Frontiers in Pharmacology, 2022, 13, .	3.5	4
3	Visualization of early oligomeric αâ€synuclein pathology and its impact on the dopaminergic system in the (Thyâ€1)â€h[A30P]I±â€syn transgenic mouse model. Journal of Neuroscience Research, 2021, 99, 2525-2539	.2.9	8
4	Social effects on AVT and CRF systems. Fish Physiology and Biochemistry, 2021, 47, 1699-1709.	2.3	1
5	Effects of early rearing enrichments on modulation of brain monoamines and hypothalamic–pituitary–interrenal axis (HPI axis) of fish mahseer (Tor putitora). Fish Physiology and Biochemistry, 2020, 46, 75-88.	2.3	7
6	Low concentrations of the benzodiazepine drug oxazepam induce anxiolytic effects in wild-caught but not in laboratory zebrafish. Science of the Total Environment, 2020, 703, 134701.	8.0	23
7	Contrasting neurochemical and behavioral profiles reflects stress coping styles but not stress responsiveness in farmed gilthead seabream (Sparus aurata). Physiology and Behavior, 2020, 214, 112759.	2.1	7
8	Dopamine and serotonin mediate the impact of stress on cleaner fish cooperative behavior. Hormones and Behavior, 2020, 125, 104813.	2.1	20
9	Chronic Exposure to Oxazepam Pollution Produces Tolerance to Anxiolytic Effects in Zebrafish (<i>Danio rerio</i>). Environmental Science & amp; Technology, 2020, 54, 1760-1769.	10.0	26
10	Studying aggression in zebrafish. , 2020, , 481-491.		1
11	Lessons, insights and newly developed tools emerging from behavioral phenotyping core facilities. Journal of Neuroscience Methods, 2020, 334, 108597.	2.5	10
12	Angling selects against active and stress-resilient phenotypes in rainbow trout. Canadian Journal of Fisheries and Aquatic Sciences, 2019, 76, 320-333.	1.4	36
13	Bold zebrafish (Danio rerio) express higher levels of delta opioid and dopamine D2 receptors in the brain compared to shy fish. Behavioural Brain Research, 2019, 359, 927-934.	2.2	56
14	Boldness in Male and Female Zebrafish (Danio rerio) Is Dependent on Strain and Test. Frontiers in Behavioral Neuroscience, 2019, 13, 248.	2.0	25
15	Neurobiological and behavioural responses of cleaning mutualisms to ocean warming and acidification. Scientific Reports, 2019, 9, 12728.	3.3	35
16	Toxicological effects of furan on the reproductive system of male rats: An "inÂvitro―and "inÂvivo"-based endocrinological and spermatogonial study. Chemosphere, 2019, 230, 327-336.	8.2	14
17	The aggressive spiegeldanio, carrying a mutation in the fgfr1a gene, has no advantage in dyadic fights with zebrafish of the AB strain. Behavioural Brain Research, 2019, 370, 111942.	2.2	8
18	Tryptophan Metabolic Pathways and Brain Serotonergic Activity: A Comparative Review. Frontiers in Endocrinology, 2019, 10, 158.	3.5	228

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19	Environmental complexity buffers against stress-induced negative judgement bias in female chickens. Scientific Reports, 2018, 8, 5404.	3.3	43
20	The brain-gut axis of fish: Rainbow trout with low and high cortisol response show innate differences in intestinal integrity and brain gene expression. General and Comparative Endocrinology, 2018, 257, 235-245.	1.8	21
21	The Influence of Rearing on Behavior, Brain Monoamines, and Gene Expression in Three-Spined Sticklebacks. Brain, Behavior and Evolution, 2018, 91, 201-213.	1.7	13
22	Monoaminergic levels at the forebrain and diencephalon signal for the occurrence of mutualistic and conspecific engagement in client reef fish. Scientific Reports, 2018, 8, 7346.	3.3	10
23	The variable monoaminergic outcomes of cleaner fish brains when facing different social and mutualistic contexts. PeerJ, 2018, 6, e4830.	2.0	12
24	How do individuals cope with stress? Behavioural, physiological and neuronal differences between proactive and reactive coping styles in fish. Journal of Experimental Biology, 2017, 220, 1524-1532.	1.7	70
25	Social Phenotypes in Zebrafish. , 2017, , 95-130.		13
26	Brain cortisol receptor expression differs in Arctic charr displaying opposite coping styles. Physiology and Behavior, 2017, 177, 161-168.	2.1	13
27	Dietary <scp>l</scp> -tryptophan leaves a lasting impression on the brain and the stress response. British Journal of Nutrition, 2017, 117, 1351-1357.	2.3	19
28	High risk no gain-metabolic performance of hatchery reared Atlantic salmon smolts, effects of nest emergence time, hypoxia avoidance behaviour and size. Physiology and Behavior, 2017, 175, 104-112.	2.1	8
29	Anaesthesia and handling stress effects on pigmentation and monoamines in Arctic charr. Environmental Biology of Fishes, 2017, 100, 471-480.	1.0	7
30	Effects of enrichment on the development of behaviour in an endangered fish mahseer (Tor putitora) Tj ETQq0 (0 rgBT /C)verlock 10 Tf
31	Characterization of the Î ³ -aminobutyric acid signaling system in the zebrafish (Danio rerio Hamilton) central nervous system by reverse transcription-quantitative polymerase chain reaction. Neuroscience, 2017, 343, 300-321.	2.3	59
32	Serotonin Coordinates Responses to Social Stress—What We Can Learn from Fish. Frontiers in Neuroscience, 2017, 11, 595.	2.8	84
33	Variation in the Neuroendocrine Stress Response. Fish Physiology, 2016, 35, 35-74.	0.8	24
34	Zebrafish (<i>Danio rerio</i>) behaviour is largely unaffected by elevated pCO ₂ . , 2016, 4, cow065.		15
35	Role of brain serotonin in modulating fish behavior. Environmental Epigenetics, 2016, 62, 317-323.	1.8	92
36	Cognitive appraisal of aversive stimulus differs between individuals with contrasting stress coping styles; evidences from selected rainbow trout (OncorhynchusÂmykiss) strains. Behaviour, 2016, 153, 1567-1587.	0.8	16

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37	Effects of acute and chronic stress on telencephalic neurochemistry and gene expression in rainbow trout (<i>Oncorhynchus mykiss</i>). Journal of Experimental Biology, 2016, 219, 3907-3914.	1.7	34
38	Prozac affects stickleback nest quality without altering androgen, spiggin or aggression levels during a 21-day breeding test. Aquatic Toxicology, 2015, 168, 78-89.	4.0	29
39	Behavioural responses in a net restraint test predict interrenal reactivity in Arctic charr <i>Salvelinus alpinus</i> . Journal of Fish Biology, 2015, 87, 88-99.	1.6	14
40	Effects of Emergence Time and Early Social Rearing Environment on Behaviour of Atlantic Salmon: Consequences for Juvenile Fitness and Smolt Migration. PLoS ONE, 2015, 10, e0119127.	2.5	7
41	Social stress effects on pigmentation and monoamines in Arctic charr. Behavioural Brain Research, 2015, 291, 103-107.	2.2	20
42	Increased reactivity and monoamine dysregulation following stress in triploid Atlantic salmon (Salmo salar). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2015, 185, 125-131.	1.8	4
43	Natural selection constrains personality and brain gene expression differences in Atlantic salmon (<i>Salmo salar</i>). Journal of Experimental Biology, 2015, 218, 1077-1083.	1.7	39
44	ARTIFICIAL SELECTION ON RELATIVE BRAIN SIZE REVEALS A POSITIVE GENETIC CORRELATION BETWEEN BRAIN SIZE AND PROACTIVE PERSONALITY IN THE GUPPY. Evolution; International Journal of Organic Evolution, 2014, 68, 1139-1149.	2.3	80
45	Male Courtship Pheromones Affect Female Behaviour in the Swordtail Characin (<i>Corynopoma) Tj ETQq1 1 0.75</i>	84314 rgE 1.1	3T /Overloc <mark>k</mark>
46	Social modulation of brain monoamine levels in zebrafish. Behavioural Brain Research, 2013, 253, 17-24.	2.2	100
47	Circadian regulation of melanization and prokineticin homologues is conserved in the brain of freshwater crayfish and zebrafish. Developmental and Comparative Immunology, 2013, 40, 218-226.	2.3	5
48	Short- and long-term effects of dietary l-tryptophan supplementation on the neuroendocrine stress response in seawater-reared Atlantic salmon (Salmo salar). Aquaculture, 2013, 388-391, 8-13.	3.5	28
49	Changes in regional brain monoaminergic activity and temporary down-regulation in stress response from dietary supplementation with <scp>l</scp> -tryptophan in Atlantic cod (<i>Gadus morhua</i>). British Journal of Nutrition, 2013, 109, 2166-2174.	2.3	27
50	Developmental Exposure to Fluoxetine Modulates the Serotonin System in Hypothalamus. PLoS ONE, 2013, 8, e55053.	2.5	25
51	Central corticotropin releasing factor and social stress. Frontiers in Neuroscience, 2013, 7, 117.	2.8	58
52	Aggression and monoamines: Effects of sex and social rank in zebrafish (Danio rerio). Behavioural Brain Research, 2012, 228, 333-338.	2.2	115
53	Context-dependent responses to novelty in Rainbow trout (Oncorhynchus mykiss), selected for high and low post-stress cortisol responsiveness. Physiology and Behavior, 2012, 105, 1175-1181.	2.1	28
54	Multidimensionality of behavioural phenotypes in Atlantic cod, Gadus morhua. Physiology and Behavior, 2012, 106, 462-470.	2.1	7

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55	Geographic variation in corticosterone response to chronic predator stress in tadpoles. Journal of Evolutionary Biology, 2012, 25, 1066-1076.	1.7	38
56	CRF and urotensin I effects on aggression and anxiety-like behavior in rainbow trout. Journal of Experimental Biology, 2011, 214, 907-914.	1.7	36
57	Stress effects on AVT and CRF systems in two strains of rainbow trout (Oncorhynchus mykiss) divergent in stress responsiveness. Hormones and Behavior, 2011, 59, 180-186.	2.1	45
58	Boldness Predicts Social Status in Zebrafish (Danio rerio). PLoS ONE, 2011, 6, e23565.	2.5	162
59	ls growth hormone expression correlated with variation in growth rate along a latitudinal gradient in <i>Rana temporaria</i> ?. Journal of Zoology, 2011, 285, 85-92.	1.7	1
60	Behavioural responses to hypoxia provide a non-invasive method for distinguishing between stress coping styles in fish. Applied Animal Behaviour Science, 2011, 132, 211-216.	1.9	44
61	Social fishes and single mothers: brain evolution in African cichlids. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 161-167.	2.6	108
62	Brain structure evolution in a basal vertebrate clade: evidence from phylogenetic comparative analysis of cichlid fishes. BMC Evolutionary Biology, 2009, 9, 238.	3.2	65
63	Melanocortin peptides affect the motivation to feed in rainbow trout (Oncorhynchus mykiss). General and Comparative Endocrinology, 2009, 160, 134-138.	1.8	55
64	DISTINCT EVOLUTIONARY PATTERNS OF BRAIN AND BODY SIZE DURING ADAPTIVE RADIATION. Evolution; International Journal of Organic Evolution, 2009, 63, 2266-2274.	2.3	49
65	Evidence for small scale variation in the vertebrate brain: mating strategy and sex affect brain size and structure in wild brown trout (<i>Salmo trutta</i>). Journal of Evolutionary Biology, 2009, 22, 2524-2531.	1.7	59
66	Arginine–vasotocin influence on aggressive behavior and dominance in rainbow trout. Physiology and Behavior, 2009, 96, 470-475.	2.1	57
67	Aggression in rainbow trout is inhibited by both MR and GR antagonists. Physiology and Behavior, 2009, 98, 625-630.	2.1	40
68	Are there physiological correlates of dominance in natural trout populations?. Animal Behaviour, 2008, 76, 1279-1287.	1.9	24
69	Functional Genomics of Stress Responses in Fish. Reviews in Fisheries Science, 2008, 16, 157-166.	2.1	46
70	Social hierarchies, growth and brain serotonin metabolism in Atlantic salmon (Salmo salar) kept under commercial rearing conditions. Physiology and Behavior, 2008, 94, 529-535.	2.1	53
71	Frequency distribution of coping strategies in four populations of brown trout (Salmo trutta). Hormones and Behavior, 2008, 53, 546-556.	2.1	32
72	Behavioral plasticity in rainbow trout (Oncorhynchus mykiss) with divergent coping styles: When doves become hawks. Hormones and Behavior, 2008, 54, 534-538.	2.1	106

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73	Genetically Determined Variation in Stress Responsiveness in Rainbow Trout: Behavior and Neurobiology. Brain, Behavior and Evolution, 2007, 70, 227-238.	1.7	56
74	Variable neuroendocrine responses to ecologically-relevant challenges in sticklebacks. Physiology and Behavior, 2007, 91, 15-25.	2.1	95
75	Interactions between the neural regulation of stress and aggression. Journal of Experimental Biology, 2006, 209, 4581-4589.	1.7	171
76	Serotonergic characteristics of rainbow trout divergent in stress responsiveness. Physiology and Behavior, 2006, 87, 938-947.	2.1	55
77	Divergence in locomotor activity between two strains of rainbow trout <i>Oncorhynchus mykiss</i> with contrasting stress responsiveness. Journal of Fish Biology, 2006, 68, 920-924.	1.6	30
78	Divergent Stress Coping Styles in Juvenile Brown Trout (Salmo trutta). Annals of the New York Academy of Sciences, 2005, 1040, 239-245.	3.8	51
79	Tryptophan affects both gastrointestinal melatonin production and interrenal activity in stressed and nonstressed rainbow trout. Journal of Pineal Research, 2005, 38, 264-271.	7.4	60
80	Avoidance behavior and brain monoamines in fish. Brain Research, 2005, 1032, 104-110.	2.2	67
81	Growth hormone-induced stimulation of swimming and feeding behaviour of rainbow trout is abolished by the D1 dopamine antagonist SCH23390. General and Comparative Endocrinology, 2005, 141, 58-65.	1.8	33
82	Behavioral and Neuroendocrine Correlates of Selection for Stress Responsiveness in Rainbow Trouta Review. Integrative and Comparative Biology, 2005, 45, 463-474.	2.0	294
83	Does Individual Variation in Stress Responses and Agonistic Behavior Reflect Divergent Stress Coping Strategies in Juvenile Rainbow Trout?. Physiological and Biochemical Zoology, 2005, 78, 715-723.	1.5	101
84	Does Pulsatile Urea Excretion Serve as a Social Signal in the Gulf Toadfish Opsanus beta?. Physiological and Biochemical Zoology, 2005, 78, 724-735.	1.5	31
85	Serotonin, but not melatonin, plays a role in shaping dominant–subordinate relationships and aggression in rainbow trout. Hormones and Behavior, 2005, 48, 233-242.	2.1	102
86	Divergence in behavioural responses to stress in two strains of rainbow trout () with contrasting stress responsiveness. Hormones and Behavior, 2005, 48, 537-544.	2.1	107
87	Suppression of aggressive behaviour in juvenile Atlantic cod (Gadus morhua) by l-tryptophan supplementation. Aquaculture, 2005, 249, 525-531.	3.5	99
88	Socially-mediated differences in brain monoamines in rainbow trout: effects of trace metal contaminants. Aquatic Toxicology, 2005, 71, 237-247.	4.0	32
89	Social Interactions. Fish Physiology, 2005, , 151-196.	0.8	15
90	Social stress affects circulating melatonin levels in rainbow trout. General and Comparative Endocrinology, 2004, 136, 322-327.	1.8	46

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91	Stress coping style predicts aggression and social dominance in rainbow trout. Hormones and Behavior, 2004, 45, 235-241.	2.1	208
92	Behavioral and neuroendocrine correlates of displaced aggression in trout. Hormones and Behavior, 2004, 45, 324-329.	2.1	105
93	Peripherally administered growth hormone increases brain dopaminergic activity and swimming in rainbow trout. Hormones and Behavior, 2004, 46, 436-443.	2.1	34
94	Central nervous system actions of growth hormone on brain monoamine levels and behavior of juvenile rainbow trout. Hormones and Behavior, 2003, 43, 367-374.	2.1	39
95	Time-course of the effect of dietary l-tryptophan on plasma cortisol levels in rainbow trout Oncorhynchus mykiss. Journal of Experimental Biology, 2003, 206, 3589-3599.	1.7	80
96	Effects of Cortisol on Aggression and Locomotor Activity in Rainbow Trout. Hormones and Behavior, 2002, 42, 53-61.	2.1	181
97	Stimulatory and inhibitory effects of 5-HT1A receptors on adrenocorticotropic hormone and cortisol secretion in a teleost fish, the Arctic charr (Salvelinus alpinus). Neuroscience Letters, 2002, 324, 193-196.	2.1	77
98	Behavioural and neuroendocrine effects of environmental background colour and social interaction in Arctic charr (<i>Salvelinus alpinus</i>). Journal of Experimental Biology, 2002, 205, 2535-2543.	1.7	102
99	Elevated dietary intake of L-tryptophan counteracts the stress-induced elevation of plasma cortisol in rainbow trout (<i>Oncorhynchus mykiss</i>). Journal of Experimental Biology, 2002, 205, 3679-3687.	1.7	141
100	Differences in behaviour between rainbow trout selected for high- and low-stress responsiveness. Journal of Experimental Biology, 2002, 205, 391-395.	1.7	179
101	Differences in behaviour between rainbow trout selected for high- and low-stress responsiveness. Journal of Experimental Biology, 2002, 205, 391-5.	1.7	143
102	Behavioural and neuroendocrine effects of environmental background colour and social interaction in Arctic charr (Salvelinus alpinus). Journal of Experimental Biology, 2002, 205, 2535-43.	1.7	84
103	Elevated dietary intake of L-tryptophan counteracts the stress-induced elevation of plasma cortisol in rainbow trout (Oncorhynchus mykiss). Journal of Experimental Biology, 2002, 205, 3679-87.	1.7	94
104	Effects ofSchistocephalus solidusinfection on brain monoaminergic activity in female three-spined sticklebacksGasterosteus aculeatus. Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 1411-1415.	2.6	82
105	Stress-induced changes in brain serotonergic activity, plasma cortisol and aggressive behavior in Arctic charr (Salvelinus alpinus) is counteracted by I-DOPA. Physiology and Behavior, 2001, 74, 381-389.	2.1	99
106	Brain Monoaminergic Activity in Rainbow Trout Selected for High and Low Stress Responsiveness. Brain, Behavior and Evolution, 2001, 57, 214-224.	1.7	113
107	Suppression of aggression in rainbow trout (<i>Oncorhynchus mykiss</i>) by dietary <scp>l</scp> -tryptophan. Journal of Experimental Biology, 2001, 204, 3867-3876.	1.7	164
108	Intermale Competition in Sexually Mature Arctic Charr: Effects on Brain Monoamines, Endocrine Stress Responses, Sex Hormone Levels, and Behavior. General and Comparative Endocrinology, 2000, 118, 450-460.	1.8	92

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109	Differential Stress Coping in Wild and Domesticated Sea Trout. Brain, Behavior and Evolution, 2000, 56, 259-268.	1.7	101
110	Relationships between sex and the size and number of forebrain gonadotropin- releasing hormone-immunoreactive neurones in the ballan wrasse (Labrus berggylta), a protogynous hermaphrodite. Journal of Comparative Neurology, 1999, 410, 158-170.	1.6	38
111	Short-Term Effects of Fights for Social Dominance and the Establishment of Dominant-Subordinate Relationships on Brain Monoamines and Cortisol in Rainbow Trout. Brain, Behavior and Evolution, 1999, 54, 263-275.	1.7	360
112	Feeding and growth of whitefish fed restricted and abundant rations: influences on growth heterogeneity and brain serotonergic activity. Journal of Fish Biology, 1999, 54, 437-449.	1.6	1
113	Feeding behaviour, brain serotonergic activity levels, and energy reserves of Arctic char (Salvelinus) Tj ETQq1	1 0.784314 r 1.0	gBJ /Overloci
114	Food intake and spontaneous swimming activity in Arctic char (<i>Salvelinus alpinus</i>): role of brain serotonergic activity and social interactions. Canadian Journal of Zoology, 1998, 76, 1366-1370.	1.0	113
115	Elevation of brain 5-HT activity, POMC expression, and plasma cortisol in socially subordinate rainbow trout. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 274, R645-R654.	1.8	122
116	Feeding behaviour, brain serotonergic activity levels, and energy reserves of Arctic char (<i>Salvelinus alpinus</i>) within a dominance hierarchy. Canadian Journal of Zoology, 1998, 76, 212-220.	1.0	30
117	Food intake and spontaneous swimming activity in Arctic char (<i>Salvelinus alpinus</i>): role of brain serotonergic activity and social interactions. Canadian Journal of Zoology, 1998, 76, 1366-1370.	1.0	83
118	Effect of Social Rank on Brain Monoaminergic Activity in a Cichlid Fish. Brain, Behavior and Evolution, 1997, 49, 230-236.	1.7	76
119	Effects of l-thyroxine on brain monoamines during parr-smolt transformation of Atlantic salmon (Salmo Salar L.). Neuroscience Letters, 1997, 224, 216-218.	2.1	13
120	Serotonin as a regulator of hypothalamic-pituitary-interrenal activity in teleost fish. Neuroscience Letters, 1997, 230, 113-116.	2.1	202
121	Number of preoptic GnRH-immunoreactive cells correlates with sexual phase in a protandrously hermaphroditic fish, the dusky anemonefish (Amphiprionmelanopus). Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1997, 181, 484-492.	1.6	59
122	Agonistic Interactions Affect Brain Serotonergic Activity in an Acanthopterygiian Fish: The Bicolor Damselfish <i>(Pomacentrus partitus)</i> . Brain, Behavior and Evolution, 1996, 48, 213-220.	1.7	47
123	Learning and sibling odor preference in juvenile arctic char,Salvelinus alpinus (L.). Journal of Chemical Ecology, 1996, 22, 773-786.	1.8	43
124	Ca2+ protects olfactory receptor function against acute Cu(II) toxicity in Atlantic salmon. Aquatic Toxicology, 1993, 25, 125-137.	4.0	26
125	Roles of brain monoamine neurotransmitters in agonistic behaviour and stress reactions, with particular reference to fish. Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology, 1993, 106, 597-614.	0.5	143
126	Predator exposure alters brain serotonin metabolism in bicolour damselfish. NeuroReport, 1993, 4, 399-402.	1.2	36

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127	Induction of social dominance by L-dopa treatment in Arctic charr. NeuroReport, 1992, 3, 243-246.	1.2	76
128	The effect of Cu(II) on the electro-olfactogram (EOG) of the Atlantic salmon (Salmo salar L) in artificial freshwater of varying inorganic carbon concentrations. Ecotoxicology and Environmental Safety, 1992, 24, 167-178.	6.0	35
129	The influence of rearing conditions on the sibling odour preference of juvenile arctic charr, Salvelinus alpinus L Animal Behaviour, 1992, 44, 157-164.	1.9	59
130	Changes in brain serotonergic activity during hierarchic behavior in Arctic charr (Salvelinus alpinus) Tj ETQq0 0 0 r Behavioral Physiology, 1992, 170, 93-9.	gBT /Ovei 1.6	lock 10 Tf 50 116
131	The Effect of Stress and Starvation on Brain Serotonin Utilization in Arctic Charr <i>(Salvelinus) Tj ETQq1 1 0.784</i>	314 rgBT	/Overlock 10 42
132	Social rank and brain levels of monoamines and monoamine metabolites in Arctic charr, Salvelinus alpinus (L.). Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1991, 168, 241.	1.6	110
133	Differential effects of mercurial compounds on the electroolfactogram (EOG) of salmon (Salmo) Tj ETQq1 1 0.784	4314 rgBT 6.0	/Qverlock 1