

Bryan D Neff

List of Publications by Year in descending order

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Version: 2024-02-01

131
papers

4,503
citations

94433

37
h-index

128289

60
g-index

170
all docs

170
docs citations

170
times ranked

3927
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic quality and sexual selection: an integrated framework for good genes and compatible genes. <i>Molecular Ecology</i> , 2004, 14, 19-38.	3.9	557
2	Sperm investment and alternative mating tactics in bluegill sunfish (<i>Lepomis macrochirus</i>). <i>Behavioral Ecology</i> , 2003, 14, 634-641.	2.2	165
3	Decisions about parental care in response to perceived paternity. <i>Nature</i> , 2003, 422, 716-719.	27.8	158
4	Adaptive potential of a Pacific salmon challenged by climate change. <i>Nature Climate Change</i> , 2015, 5, 163-166.	18.8	112
5	Inter-population variation in multiple paternity and reproductive skew in the guppy. <i>Molecular Ecology</i> , 2008, 17, 2975-2984.	3.9	108
6	Relationships between condition factors, parasite load and paternity in bluegill sunfish, <i>Lepomis macrochirus</i> . <i>Environmental Biology of Fishes</i> , 2004, 71, 297-304.	1.0	93
7	Stabilizing selection on genomic divergence in a wild fish population. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 2381-2385.	7.1	92
8	Genetic Paternity Analysis and Breeding Success in Bluegill Sunfish (<i>Lepomis macrochirus</i>). , 2001, 92, 111-119.		91
9	Major histocompatibility complex heterozygote advantage and widespread bacterial infections in populations of Chinook salmon (<i>Oncorhynchus tshawytscha</i>). <i>Molecular Ecology</i> , 2009, 18, 4716-4729.	3.9	91
10	Genetic quality and offspring performance in Chinook salmon: implications for supportive breeding. <i>Conservation Genetics</i> , 2007, 8, 607-616.	1.5	90
11	Sperm competition in a fish with external fertilization: the contribution of sperm number, speed and length. <i>Journal of Evolutionary Biology</i> , 2006, 19, 1873-1881.	1.7	84
12	MHC class IIB alleles contribute to both additive and nonadditive genetic effects on survival in Chinook salmon. <i>Molecular Ecology</i> , 2006, 15, 2357-2365.	3.9	84
13	The MHC and non-random mating in a captive population of Chinook salmon. <i>Heredity</i> , 2008, 101, 175-185.	2.6	83
14	Behavioral syndromes versus darwinian algorithms. <i>Trends in Ecology and Evolution</i> , 2004, 19, 621-622.	8.7	77
15	Plasma levels of androgens and cortisol in relation to breeding behavior in parental male bluegill sunfish, <i>Lepomis macrochirus</i> . <i>Hormones and Behavior</i> , 2006, 49, 598-609.	2.1	77
16	Microsatellite Multiplexing in Fish. <i>Transactions of the American Fisheries Society</i> , 2000, 129, 584-593.	1.4	73
17	Restoring species through reintroductions: strategies for source population selection. <i>Restoration Ecology</i> , 2015, 23, 746-753.	2.9	70
18	Multiple paternity and kin recognition mechanisms in a guppy population. <i>Molecular Ecology</i> , 2007, 16, 3938-3946.	3.9	68

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19	Evidence for size and sex-specific dispersal in a cooperatively breeding cichlid fish. <i>Molecular Ecology</i> , 2007, 16, 2974-2984.	3.9	65
20	Paternity and condition affect cannibalistic behavior in nest-tending bluegill sunfish. <i>Behavioral Ecology and Sociobiology</i> , 2003, 54, 377-384.	1.4	64
21	Microsatellite genetic differentiation among populations of the Trinidadian guppy. <i>Heredity</i> , 2009, 102, 425-434.	2.6	64
22	Parentage analysis with incomplete sampling of candidate parents and offspring. <i>Molecular Ecology</i> , 2000, 9, 515-528.	3.9	58
23	Parasite mediated homogenizing selection at the MHC in guppies. <i>Genetica</i> , 2010, 138, 273-278.	1.1	55
24	Conservation and enhancement of wild fish populations: preserving genetic quality versus genetic diversity¹This paper is derived from the J.C. Stevenson Memorial Lecture delivered by Bryan Neff at the Canadian Conference for Fisheries Research in Winnipeg, Manitoba, January 2010.. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2011, 68, 1139-1154.	1.4	54
25	Nestling recognition via direct cues by parental male bluegill sunfish (<i>Lepomis macrochirus</i>). <i>Animal Cognition</i> , 2003, 6, 87-92.	1.8	50
26	Decision making and recognition mechanisms. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 1435-1441.	2.6	46
27	Is Peer Review a Game of Chance?. <i>BioScience</i> , 2006, 56, 333.	4.9	46
28	Not So Fast: Inflation in Impact Factors Contributes to Apparent Improvements in Journal Quality. <i>BioScience</i> , 2010, 60, 455-459.	4.9	46
29	The effects of elevated temperature on the sexual traits, immunology and survivorship of a tropical ectotherm. <i>Journal of Experimental Biology</i> , 2013, 216, 2658-64.	1.7	46
30	Male size and mating tactic influence proximity to females during sperm competition in bluegill sunfish. <i>Behavioral Ecology and Sociobiology</i> , 2006, 59, 811-818.	1.4	45
31	Promiscuity Drives Self-Referent Kin Recognition. <i>Current Biology</i> , 2006, 16, 1807-1811.	3.9	44
32	Increased performance of offspring sired by parasitic males in bluegill sunfish. <i>Behavioral Ecology</i> , 2004, 15, 327-331.	2.2	42
33	Quantitative genetic and translocation experiments reveal genotype-by-environment effects on juvenile life-history traits in two populations of Chinook salmon (<i>Oncorhynchus tshawytscha</i>). <i>Journal of Evolutionary Biology</i> , 2010, 23, 687-698.	1.7	42
34	Sexual conflict inhibits female mate choice for major histocompatibility complex dissimilarity in Chinook salmon. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 885-894.	2.6	42
35	Microsatellite evolution in sunfish (Centrarchidae). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1999, 56, 1198-1205.	1.4	41
36	Steroid hormones in bluegill, a species with male alternative reproductive tactics including female mimicry. <i>Biology Letters</i> , 2007, 3, 628-632.	2.3	41

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37	Selection at the MHC class IIB locus across guppy (<i>Poecilia reticulata</i>) populations. <i>Heredity</i> , 2010, 104, 155-167.	2.6	41
38	In Vitro Fertilization Reveals Offspring Recognition via Self-Referencing in a Fish with Paternal Care and Cuckoldry. <i>Ethology</i> , 2005, 111, 425-438.	1.1	38
39	Mate choice for non-additive genetic benefits: A resolution to the lek paradox. <i>Journal of Theoretical Biology</i> , 2008, 254, 147-155.	1.7	38
40	MHC genetic structure and divergence across populations of Chinook salmon (<i>Oncorhynchus tshawytscha</i>). <i>Evolution</i> , 2007, 61, 1070-1082.	2.6	38
41	Statistical confidence in parentage analysis with incomplete sampling: how many loci and offspring are needed?. <i>Molecular Ecology</i> , 2000, 9, 529-539.	3.9	37
42	High degree of paternity loss in a species with alternative reproductive tactics. <i>Behavioral Ecology and Sociobiology</i> , 2013, 67, 399-408.	1.4	36
43	Juvenile growth and aggression in diploid and triploid Chinook salmon (<i>Oncorhynchus tshawytscha</i>) (Walbaum). <i>Journal of Fish Biology</i> , 2008, 73, 169-185.	1.6	35
44	A Bayesian Framework for Parentage Analysis: The Value of Genetic and Other Biological Data. <i>Theoretical Population Biology</i> , 2001, 59, 315-331.	1.1	34
45	Condition-dependent nesting in bluegill sunfish <i>Lepomis macrochirus</i> . <i>Journal of Animal Ecology</i> , 2006, 75, 627-633.	2.8	33
46	A Bayesian Model for Assessing the Frequency of Multiple Mating in Nature. <i>Evolution</i> , 2002, 93, 406-414.		31
47	Dietary carotenoid levels affect carotenoid and retinoid allocation in female Chinook salmon (<i>Oncorhynchus tshawytscha</i>). <i>Journal of Fish Biology</i> , 2010, 76, 1474-1490.	1.6	31
48	Indirect genetic effects underlie oxygen-limited thermal tolerance within a coastal population of chinook salmon. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20141082.	2.6	28
49	Non-additive genetic effects contribute to larval spinal deformity in two populations of Chinook salmon (<i>Oncorhynchus tshawytscha</i>). <i>Aquaculture</i> , 2009, 296, 169-173.	3.5	27
50	Competitive interactions among multiple non-native salmonids and two populations of Atlantic salmon. <i>Ecology of Freshwater Fish</i> , 2015, 24, 44-55.	1.4	27
51	The role of genetic relatedness among social mates in a cooperative breeder. <i>Behavioral Ecology</i> , 2008, 19, 816-823.	2.2	26
52	The effect of competition among three salmonids on dominance and growth during the juvenile life stage. <i>Ecology of Freshwater Fish</i> , 2012, 21, 533-540.	1.4	26
53	MECHANISMS OF SPERM COMPETITION: TESTING THE FAIR RAFFLE. <i>Evolution; International Journal of Organic Evolution</i> , 2004, 58, 1846-1851.	2.3	25
54	Temporal variation in cuckoldry and paternity in two sunfish species (<i>Lepomis</i> spp.) with alternative reproductive tactics. <i>Canadian Journal of Zoology</i> , 2008, 86, 92-98.	1.0	25

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55	Paternity, parental behavior and circulating steroid hormone concentrations in nest-tending male bluegill. <i>Hormones and Behavior</i> , 2009, 56, 239-245.	2.1	25
56	MHC-mediated local adaptation in reciprocally translocated Chinook salmon. <i>Conservation Genetics</i> , 2010, 11, 2333-2342.	1.5	25
57	Brain Transcriptional Profiles of Male Alternative Reproductive Tactics and Females in Bluegill Sunfish. <i>PLoS ONE</i> , 2016, 11, e0167509.	2.5	25
58	Hematocrit Is Associated with Thermal Tolerance and Modulated by Developmental Temperature in Juvenile Chinook Salmon. <i>Physiological and Biochemical Zoology</i> , 2018, 91, 757-762.	1.5	24
59	A program to compare genetic differentiation statistics across loci using resampling of individuals and loci. <i>Molecular Ecology Resources</i> , 2010, 10, 546-550.	4.8	23
60	Genetic and maternal effects on juvenile survival and fitness-related traits in three populations of Atlantic salmon. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2015, 72, 751-758.	1.4	23
61	Father knows best. <i>Nature</i> , 2003, 425, 136-137.	27.8	22
62	Genetic architecture of survival and fitness-related traits in two populations of Atlantic salmon. <i>Heredity</i> , 2013, 111, 513-519.	2.6	22
63	Pollution-induced behavioural effects in the brown bullhead (<i>Ameiurus nebulosus</i>). <i>Ecotoxicology</i> , 2010, 19, 1337-1346.	2.4	21
64	Reproductive success in wild and hatchery male coho salmon. <i>Royal Society Open Science</i> , 2015, 2, 150161.	2.4	21
65	Effects of feeding high dietary thiaminase to sub-adult Atlantic salmon from three populations. <i>Journal of Great Lakes Research</i> , 2015, 41, 898-906.	1.9	21
66	Relationship between cardiac performance and environment across populations of Atlantic salmon (<i>Salmo salar</i>): a common garden experiment implicates local adaptation. <i>Evolutionary Ecology</i> , 2016, 30, 877-886.	1.2	21
67	Solitary nesting as an alternative breeding tactic in colonial nesting bluegill sunfish (<i>Lepomis</i>) Tj ETQq1 1 0.784314, rgBT /Overlock 10 Tf 50 142 T	1.4	20
68	Allometric growth and sperm competition in fishes. <i>Journal of Fish Biology</i> , 2005, 67, 470-480.	1.6	20
69	Androgen-mediated nurturing and aggressive behaviors during paternal care in bluegill sunfish (<i>Lepomis macrochirus</i>). <i>Hormones and Behavior</i> , 2013, 63, 454-461.	2.1	20
70	Alternative male reproductive tactics drive asymmetrical hybridization between sunfishes () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 T	2.3	19
71	Competition and cuckoldry: estimating fitness of alternative reproductive tactics in plainfin midshipman. <i>Behaviour</i> , 2014, 151, 1209-1227.	0.8	19
72	Genetic life history effects on juvenile survival in bluegill. <i>Journal of Evolutionary Biology</i> , 2007, 20, 517-525.	1.7	18

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73	Egg consumption in mature Pacific salmon (<i>Oncorhynchus</i> spp.). Canadian Journal of Fisheries and Aquatic Sciences, 2009, 66, 1546-1553.	1.4	18
74	Ecomorphological patterns linking morphology and diet across three populations of pumpkinseed sunfish (<i>Lepomis gibbosus</i>). Canadian Journal of Zoology, 2015, 93, 289-297.	1.0	18
75	The Effect of Nonnative Salmonids on Social Dominance and Growth of Juvenile Atlantic Salmon. Transactions of the American Fisheries Society, 2012, 141, 907-918.	1.4	17
76	Assortative mating but no evidence of genetic divergence in a species characterized by a trophic polymorphism. Journal of Evolutionary Biology, 2016, 29, 633-644.	1.7	17
77	Mean d2 and Divergence Time: Transformations and Standardizations. , 2004, 95, 165-171.		16
78	The influence of non-native salmonids on circulating hormone concentrations in juvenile Atlantic salmon. Animal Behaviour, 2012, 83, 119-129.	1.9	15
79	Paternal Genetic Effects on Foraging Decision-Making Under the Risk of Predation. Ethology, 2006, 112, 963-970.	1.1	14
80	MHC class IIB additive and non-additive effects on fitness measures in the guppy <i>Poecilia reticulata</i> . Journal of Fish Biology, 2009, 75, 2299-2312.	1.6	14
81	Morphological and swim performance variation among reproductive tactics of bluegill sunfish (<i>Lepomis macrochirus</i>). Canadian Journal of Fisheries and Aquatic Sciences, 2011, 68, 1802-1810.	1.4	13
82	Rapid evolution of sperm length in response to increased temperature in an ectothermic fish. Evolutionary Ecology, 2014, 28, 521-533.	1.2	13
83	Comparing population level sexual selection in a species with alternative reproductive tactics. Behavioral Ecology, 2014, 25, 1524-1533.	2.2	13
84	Songbird genetic diversity is lower in anthropogenically versus naturally fragmented landscapes. Conservation Genetics, 2011, 12, 1195-1203.	1.5	12
85	Effects of Competition with Four Nonnative Salmonid Species on Atlantic Salmon from Three Populations. Transactions of the American Fisheries Society, 2015, 144, 1081-1090.	1.4	12
86	Transcriptional profiling of two Atlantic salmon strains: implications for reintroduction into Lake Ontario. Conservation Genetics, 2015, 16, 277-287.	1.5	12
87	Competitive effects between rainbow trout and Atlantic salmon in natural and artificial streams. Ecology of Freshwater Fish, 2016, 25, 248-260.	1.4	12
88	Mate choice for nonadditive genetic benefits and the maintenance of genetic diversity in song sparrows. Journal of Evolutionary Biology, 2009, 22, 424-429.	1.7	11
89	Evolution of introduced Chinook salmon (<i>Oncorhynchus tshawytscha</i>) in Lake Huron: emergence of population genetic structure in less than 10 generations. Ecology of Freshwater Fish, 2012, 21, 235-244.	1.4	11
90	Domestic-wild hybridization to improve aquaculture performance in Chinook salmon. Aquaculture, 2019, 511, 734-755.	3.5	11

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91	Androgen and prolactin manipulation induces changes in aggressive and nurturing behavior in a fish with male parental care. <i>Hormones and Behavior</i> , 2019, 116, 104582.	2.1	11
92	Cannibalism of young is related to low paternity and nest take-overs in an intertidal fish. <i>Animal Behaviour</i> , 2019, 153, 41-48.	1.9	11
93	Kinship affects innate responses to a predator in bluegill <i>Lepomis macrochirus</i> larvae. <i>Journal of Fish Biology</i> , 2009, 75, 728-737.	1.6	10
94	The metabolic, locomotor, and sex-dependent effects of elevated temperature on Trinidadian guppies: limited capacity for acclimation. <i>Journal of Experimental Biology</i> , 2012, 215, 3436-41.	1.7	10
95	Behavioural and genetic analyses of mate choice and reproductive success in two Chinook salmon populations. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2013, 70, 263-270.	1.4	10
96	Diet and cannibalism in plainfin midshipman <i>Porichthys notatus</i> . <i>Journal of Fish Biology</i> , 2015, 86, 1396-1415.	1.6	10
97	Performance of four salmonids species in competition with Atlantic salmon. <i>Journal of Great Lakes Research</i> , 2017, 43, 211-215.	1.9	10
98	Finding Mr Right: good genes and multiple mating by females. <i>Trends in Ecology and Evolution</i> , 2000, 15, 489.	8.7	9
99	Effects of Exogenous Testosterone on Parental Care Behaviours in Male Bluegill Sunfish (<i>Lepomis</i>) Tj ETQq1 1 0.784314 rgBT /Ove	1.1	9
100	Temporal Variation in Decisions about Parental Care in Bluegill, <i>Lepomis macrochirus</i> . <i>Ethology</i> , 2006, 112, 1000-1007.	1.1	8
101	Rapid evolution in response to increased temperature maintains population viability despite genetic erosion in a tropical ectotherm. <i>Evolutionary Ecology</i> , 2014, 28, 141-155.	1.2	8
102	Foraging ecology of native pumpkinseed (<i>Lepomis gibbosus</i>) following the invasion of zebra mussels (<i>Dreissena polymorpha</i>). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2015, 72, 983-990.	1.4	8
103	Transcriptome response of Atlantic salmon (<i>Salmo salar</i>) to competition with ecologically similar non-native species. <i>Ecology and Evolution</i> , 2018, 8, 1769-1777.	1.9	8
104	Multiple mating predicts intensity but not mechanism of kin recognition. <i>Behavioral Ecology</i> , 2016, 27, 93-100.	2.2	7
105	Effects of dietary fishmeal substitution with corn gluten meal and poultry meal on growth rate and flesh characteristics of Chinook salmon (<i>Oncorhynchus tshawytscha</i>). <i>International Aquatic Research</i> , 2019, 11, 325-334.	1.5	7
106	Alternative reproductive tactics and sexual selection. <i>Trends in Ecology and Evolution</i> , 2001, 16, 669.	8.7	6
107	Male reproductive success and female preference in bushy-tailed woodrats (<i>Neotoma cinerea</i>): do females prefer males in good physical condition?. <i>Canadian Journal of Zoology</i> , 2007, 85, 169-176.	1.0	6
108	Behavioural Interactions and Hormones in Naturally and Hatchery-Spawmed Chinook Salmon. <i>Ethology</i> , 2011, 117, 37-48.	1.1	6

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109	Effects of foraging and sexual selection on ecomorphology of a fish with alternative reproductive tactics. <i>Behavioral Ecology</i> , 2013, 24, 1339-1347.	2.2	6
110	Androgen effects on immune gene expression during parental care in bluegill sunfish (<i>Lepomis microlophus</i>). <i>Physiological and Biochemical Zoology</i> , 2010, 83, 101-110.	1.0	6
111	Effects of competition on fitness-related traits. <i>Oecologia</i> , 2017, 183, 701-713.	2.0	6
112	Emergent trophic interactions following the Chinook salmon invasion of Patagonia. <i>Ecosphere</i> , 2022, 13, .	2.2	6
113	Females aren't perfect: maintaining genetic variation and the lek paradox. <i>Trends in Ecology and Evolution</i> , 2000, 15, 395.	8.7	5
114	Effects of Paternal Reproductive Tactic on Juvenile Behaviour and Kin Recognition in Chinook Salmon (<i>Oncorhynchus tshawytscha</i>). <i>Ethology</i> , 2011, 117, 451-458.	1.1	5
115	Non-native Chinook salmon add nutrient subsidies and functional novelty to Patagonian streams. <i>Freshwater Biology</i> , 2021, 66, 495-508.	2.4	5
116	Reply to 'Response of chinook salmon to climate change'. <i>Nature Climate Change</i> , 2015, 5, 615-615.	18.8	4
117	Innate and learned predator recognition across populations of Atlantic salmon, <i>Salmo salar</i> . <i>Ethology</i> , 2021, 127, 563-571.	1.1	4
118	Hide or seek: presence of stream shelter influences the foraging behaviour of juvenile Atlantic salmon (<i>Salmo salar</i> , Linnaeus 1758). <i>Environmental Biology of Fishes</i> , 2022, 105, 1-18.	1.0	4
119	The Potential for Less Invasive Inference of Resource Use: Covariation in Stable Isotope Composition between Females and Their Eggs in Bluegill. <i>Transactions of the American Fisheries Society</i> , 2015, 144, 283-291.	1.4	3
120	Evolution of kin recognition mechanisms in a fish. <i>Animal Cognition</i> , 2017, 20, 367-370.	1.8	3
121	A test of the effects of androgens on immunity: No relationship between 11-ketotestosterone and immune performance in bluegill (<i>Lepomis macrochirus</i>). <i>General and Comparative Endocrinology</i> , 2018, 261, 1-8.	1.8	3
122	Effect of isotocin on shoaling behaviour of the Guppy (<i>Poecilia reticulata</i>). <i>Animal Cognition</i> , 2020, 23, 827-831.	1.8	3
123	The importance of freshwater feeding in mature Pacific salmon: a reply to the comment by Armstrong on 'Egg consumption in mature Pacific salmon (<i>Oncorhynchus</i> spp.)'. Appears in <i>Can. J. Fish. Aquat. Sci.</i> 66(9):1546-1553.. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2010, 67, 2055-2057.	1.4	2
124	Predictability of multispecies competitive interactions in three populations of Atlantic salmon (<i>Salmo salar</i>). <i>Journal of Fish Biology</i> , 2015, 86, 1438-1443.	1.6	2
125	Effects of a low-thiamine diet on reproductive traits in three populations of Atlantic salmon targeted for reintroduction into Lake Ontario. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2021, 78, 135-143.	1.4	2
126	Salmon in clear and present danger. <i>Science</i> , 2019, 366, 582-582.	12.6	1

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127	Infidelity as a transaction between social mates. <i>Trends in Ecology and Evolution</i> , 2001, 16, 175.	8.7	0
128	Can good genes explain the peacock's tail?. <i>Trends in Ecology and Evolution</i> , 2002, 17, 206.	8.7	0
129	An Evolutionary Primer on Pregnancy. <i>BioScience</i> , 2014, 64, 361-362.	4.9	0
130	Similarity at the major histocompatibility complex class II does not influence mating patterns in bluegill (<i>Lepomis macrochirus</i>). <i>Behavioral Ecology and Sociobiology</i> , 2020, 74, 1.	1.4	0
131	Upstream and Downstream Dispersal Behavior of Hard- and Soft-Released Juvenile Atlantic Salmon. <i>North American Journal of Fisheries Management</i> , 2022, 42, 438-446.	1.0	0