

# Neil John Duncan

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

1,793  
citations

257357

24  
h-index

302012

39  
g-index

78  
all docs

78  
docs citations

78  
times ranked

1633  
citing authors

#	ARTICLE	IF	CITATIONS
1	The use of cage lighting to reduce plasma melatonin in Atlantic salmon ( <i>Salmo salar</i> ) and its effects on the inhibition of grilising. <i>Aquaculture</i> , 1999, 176, 237-244.	1.7	128
2	Hormonal manipulations for the enhancement of sperm production in cultured fish and evaluation of sperm quality. <i>Aquaculture</i> , 2017, 472, 21-44.	1.7	110
3	New developments and biological insights into the farming of <i>Solea senegalensis</i> reinforcing its aquaculture potential. <i>Reviews in Aquaculture</i> , 2016, 8, 227-263.	4.6	86
4	Permanent Genetic Resources added to Molecular Ecology Resources Database 1 April 2010 – 31 May 2010. <i>Molecular Ecology Resources</i> , 2010, 10, 1098-1105.	2.2	71
5	The use of photoperiod in the production of out-of-season Atlantic salmon ( <i>Salmo salar</i> ) smolts. <i>Aquaculture</i> , 1994, 121, 29-44.	1.7	64
6	Follicle-Stimulating Hormone and Luteinizing Hormone Mediate the Androgenic Pathway in Leydig Cells of an Evolutionary Advanced Teleost. <i>Biology of Reproduction</i> , 2012, 87, 35.	1.2	64
7	Temperature, light intensity and plasma melatonin levels in juvenile Atlantic salmon. <i>Journal of Fish Biology</i> , 2001, 58, 431-438.	0.7	58
8	GnRHa-induced spawning of wild-caught spotted rose snapper <i>Lutjanus guttatus</i> . <i>Aquaculture</i> , 2007, 272, 737-746.	1.7	49
9	Physiological stress responses of sea bass ( <i>Dicentrarchus labrax</i> ) to hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> ) exposure. <i>Aquaculture</i> , 2010, 304, 104-107.	1.7	48
10	Effects of graded levels of arachidonic acid on the reproductive physiology of Senegalese sole ( <i>Solea</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf bred in captivity. <i>General and Comparative Endocrinology</i> , 2013, 191, 92-101.	0.8	48
11	Effects of controlled delivery and acute injections of LHRHa on bullseye puffer fish ( <i>Sphoeroides</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.7	44
12	Reproductive development, GnRHa-induced spawning and egg quality of wild meagre ( <i>Argyrosomus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.9	44
13	Dietary modulation of arachidonic acid metabolism in senegalese sole ( <i>Solea Senegalensis</i> ) broodstock reared in captivity. <i>Aquaculture</i> , 2013, 372-375, 80-88.	1.7	44
14	Post-smolt growth and maturation of out-of-season 0+ Atlantic salmon ( <i>Salmo salar</i> ) reared under different photoperiods. <i>Aquaculture</i> , 1999, 177, 61-71.	1.7	40
15	Treatment of GnRHa-implanted Senegalese sole ( <i>Solea senegalensis</i> ) with 11-ketoandrostenedione stimulates spermatogenesis and increases sperm motility. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2007, 147, 885-892.	0.8	40
16	Transcriptomic profiles of the upper olfactory rosette in cultured and wild Senegalese sole ( <i>Solea</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 20, 125-135.	0.4	40
17	Ontogeny and modulation after PAMPs stimulation of $\beta$ -defensin, hepcidin, and piscidin antimicrobial peptides in meagre ( <i>Argyrosomus regius</i> ). <i>Fish and Shellfish Immunology</i> , 2017, 69, 200-210.	1.6	40
18	Growth, maturation and survival of out-of-season 0+ and 1+ Atlantic salmon ( <i>Salmo salar</i> ) smolts. <i>Aquaculture</i> , 1998, 168, 325-339.	1.7	39

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19	The effect of different periods of constant short days on smoltification in juvenile Atlantic salmon ( <i>Salmo salar</i> ).. Aquaculture, 1998, 168, 369-386.	1.7	33
20	Proximate and fatty acid compositions in muscle, liver and gonads of wild versus cultured broodstock of Senegalese sole ( <i>Solea senegalensis</i> ). Aquaculture, 2012, 356-357, 176-185.	1.7	33
21	Self-selection of diets with different contents of arachidonic acid by Senegalese sole ( <i>Solea</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.7	33
22	Prostaglandin (F and E, 2- and 3-series) production and cyclooxygenase (COX-2) gene expression of wild and cultured broodstock of senegalese sole ( <i>Solea senegalensis</i> ). General and Comparative Endocrinology, 2012, 177, 256-262.	0.8	30
23	Aquaculture production of meagre ( <i>Argyrosomus regius</i> ): hatchery techniques, ongrowing and market. , 2013, , 519-541.		30
24	Plasma levels of follicle-stimulating and luteinizing hormones during the reproductive cycle of wild and cultured Senegalese sole ( <i>Solea senegalensis</i> ). Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2016, 191, 35-43.	0.8	29
25	Toward developing recombinant gonadotropin-based hormone therapies for increasing fertility in the flatfish Senegalese sole. PLoS ONE, 2017, 12, e0174387.	1.1	28
26	Influence of the lunar cycle on plasma melatonin, vitellogenin and sex steroids rhythms in Senegal sole, <i>Solea senegalensis</i> . Aquaculture, 2010, 306, 343-347.	1.7	27
27	Effect of water treatment and aeration on the percentage hatch of demersal, adhesive eggs of the bullseye puffer ( <i>Sphoeroides annulatus</i> ). Aquaculture, 2004, 229, 147-158.	1.7	24
28	Characterization of stress coping style in Senegalese sole ( <i>Solea senegalensis</i> ) juveniles and breeders for aquaculture. Royal Society Open Science, 2016, 3, 160495.	1.1	24
29	The effect of night illumination, red and infrared light, on locomotor activity, behaviour and melatonin of Senegalese sole ( <i>Solea senegalensis</i> ) broodstock. Physiology and Behavior, 2013, 118, 201-207.	1.0	22
30	Enhancement of oogenesis/spermatogenesis in meagre <i>Argyrosomus regius</i> using a combination of temperature control and GnRHa treatments. Aquaculture, 2016, 464, 323-330.	1.7	22
31	Reproductive cycle of female yellow snapper<i>Lutjanus argentiventris</i> (Pisces, Actinopterygii,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T maturity. Journal of Applied Ichthyology, 2009, 25, 18-25.	0.3	18
32	Reproduction of hatchery-produced meagre <i>Argyrosomus regius</i> in captivity III. Comparison between GnRHa implants and injections on spawning kinetics and egg/larval performance parameters. Aquaculture, 2015, 448, 44-53.	1.7	18
33	Dose-dependent effect of a single GnRHa injection on the spawning of meagre ( <i>Argyrosomus regius</i> ) broodstock reared in captivity. Spanish Journal of Agricultural Research, 2014, 12, 1038.	0.3	18
34	Seawater growth and maturation of Atlantic salmon ( <i>Salmo salar</i> ) transferred to sea at different times during the year. Aquaculture, 2002, 213, 293-309.	1.7	17
35	Patterns of Occurrence of the Platyhelminth Parasites of the Wild Bullseye Puffer ( <i>Sphoeroides</i> ) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.3	17
36	Principles of finfish broodstock management in aquaculture: control of reproduction and genetic improvement. , 2013, , 23-75.		16

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37	Reproductive ethogram and mate selection in captive wild Senegalese sole ( <i>Solea senegalensis</i> ). Spanish Journal of Agricultural Research, 2016, 14, e0401.	0.3	16
38	Seasonal-and dose-dependent effects of recombinant gonadotropins on sperm production and quality in the flatfish <i>Solea senegalensis</i> . Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology, 2018, 225, 59-64.	0.8	15
39	Reproductive success of a marine teleost was correlated with proactive and reactive stress-coping styles. Journal of Fish Biology, 2019, 94, 402-413.	0.7	15
40	Providing recombinant gonadotropin-based therapies that induce oogenesis from previtellogenic oocytes to produce viable larvae in a teleost, the flathead grey mullet ( <i>Mugil cephalus</i> ). Aquaculture, 2021, 536, 736418.	1.7	15
41	Dominance behaviour in a non-aggressive flatfish, Senegalese sole ( <i>Solea senegalensis</i> ) and brain mRNA abundance of selected transcripts. PLoS ONE, 2017, 12, e0184283.	1.1	14
42	Mating behaviour and gamete release in gilthead seabream ( <i>Sparus aurata</i> , Linnaeus 1758) held in captivity. Spanish Journal of Agricultural Research, 2015, 13, e0401.	0.3	14
43	Reproduction and Control of Ovulation, Spermiation and Spawning in Cultured Fish. Marine Biology, 2008, , 3-80.	0.1	13
44	Gamete quality and management for in vitro fertilisation in meagre ( <i>Argyrosomus regius</i> ). Aquaculture, 2019, 509, 227-235.	1.7	13
45	Sperm contamination by urine in Senegalese sole ( <i>Solea senegalensis</i> ) and the use of extender solutions for short-term chilled storage. Aquaculture, 2020, 516, 734649.	1.7	13
46	Parentage assignment, estimates of heritability and genetic correlation for growth-related traits in meagre <i>Argyrosomus regius</i> . Aquaculture, 2020, 518, 734663.	1.7	11
47	Recombinant Fsh and Lh therapy for spawning induction of previtellogenic and early spermatogenic arrested teleost, the flathead grey mullet ( <i>Mugil cephalus</i> ). Scientific Reports, 2022, 12, 6563.	1.6	11
48	Dietary fatty acid composition significantly influenced the proactive-reactive behaviour of Senegalese sole ( <i>Solea senegalensis</i> ) post-larvae. Applied Animal Behaviour Science, 2015, 171, 233-240.	0.8	10
49	Olfactory sensitivity of the marine flatfish <i>Solea senegalensis</i> to conspecific body fluids. Journal of Experimental Biology, 2017, 220, 2057-2065.	0.8	10
50	Paired spawning with male rotation of meagre <i>Argyrosomus regius</i> using GnRHa injections, as a method for producing multiple families for breeding selection programs. Aquaculture, 2018, 495, 506-512.	1.7	10
51	Linking stress coping styles with brain mRNA abundance of selected transcripts for Senegalese sole ( <i>Solea senegalensis</i> ) juveniles. Physiology and Behavior, 2020, 213, 112724.	1.0	10
52	Effects of Weather Variability on Crop Abandonment. Sustainability, 2015, 7, 2858-2870.	1.6	9
53	Reproductive performance of captive Senegalese sole, <i>Solea senegalensis</i> , according to the origin (wild or cultured) and gender. Spanish Journal of Agricultural Research, 2020, 17, e0608.	0.3	9
54	Artificial sex reversal of white grouper ( <i>Epinephelus aeneus</i> ) utilizing aromatase inhibitor (Fadrozole). Aquaculture Research, 2019, 50, 1539-1546.	0.9	8

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55	The presence of wild Senegalese sole breeders improves courtship and reproductive success in cultured conspecifics. <i>Aquaculture</i> , 2020, 519, 734922.	1.7	8
56	Reproductive biology of captive bullseye puffer ( <i>Sphoeroides annulatus</i> ), LHRHa induced spawning and egg quality. <i>Fish Physiology and Biochemistry</i> , 2003, 28, 505-506.	0.9	7
57	<i>Diplectanum sciaenae</i> (Van Beneden & Hesse, 1863) (Monogenea) infecting meagre, <i>Argyrosomus regius</i> (Asso, 1801) broodstock in Catalonia, Spain. A case report. <i>Veterinary Parasitology: Regional Studies and Reports</i> , 2015, 1-2, 75-79.	0.3	7
58	Senegalese sole ( <i>Solea senegalensis</i> ) coping styles are consistent over time: behavioural and physiological responses during ontogenesis. <i>Physiology and Behavior</i> , 2020, 217, 112803.	1.0	7
59	Comparison of egg quality between wild and captive bullseye puffer ( <i>Sphoeroides annulatus</i> ). <i>Fish Physiology and Biochemistry</i> , 2003, 28, 509-510.	0.9	6
60	Partial cloning and expression of the cyclin B gene in the ovary of the bullseye puffer ( <i>Sphoeroides</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 211-216.	1.3	6
61	Effect of the dusk photoperiod change from light to dark on the incubation period of eggs of the spotted rose snapper, <i>Lutjanus guttatus</i> (Steindachner). <i>Aquaculture Research</i> , 2008, 39, 427-433.	0.9	6
62	Exploring the relationship between stress coping styles and sex, origin and reproductive success, in Senegalese sole ( <i>Solea senegalensis</i> ) breeders in captivity. <i>Physiology and Behavior</i> , 2020, 220, 112868.	1.0	5
63	The feasibility of using gas mixture to stun seabream ( <i>Sparus aurata</i> ) before slaughtering in aquaculture production. <i>Aquaculture</i> , 2021, 545, 737168.	1.7	5
64	An intensive hatchery rearing protocol for larvae of the bullseye puffer, <i>Sphoeroides annulatus</i> (Jenyns). <i>Aquaculture Research</i> , 2010, 41, no-no.	0.9	4
65	Efecto de la temperatura y salinidad del agua en la incubaci3n de huevos de botete diana <i>Sphoeroides annulatus</i> . <i>Revista De Biología Marina Y Oceanografía</i> , 2012, 47, 147-153.	0.1	4
66	Muscle and liver transcriptome characterization and genetic marker discovery in the farmed meagre, <i>Argyrosomus regius</i> . <i>Marine Genomics</i> , 2018, 39, 39-44.	0.4	4
67	Is it possible to store spotted wolffish ( <i>Anarhichas minor</i> ) sperm by refrigeration?. <i>Fish Physiology and Biochemistry</i> , 2021, 47, 725-735.	0.9	4
68	Low sperm to egg ratio required for successful <i>in vitro</i> fertilization in a pair-spawning teleost, Senegalese sole ( <i>Solea senegalensis</i> ). <i>Royal Society Open Science</i> , 2021, 8, 201718.	1.1	2
69	Effect of LHRHa on the expression of stress-related molecules in the ovary of wild caught <i>Sphoeroides annulatus</i> held in captivity. <i>Journal of Fish Biology</i> , 2005, 67, 582-588.	0.7	1
70	Mating Behaviour. , 2019, , 169-184.		1
71	Expression of a glycoprotein hormone receptor gene in the ovary of the bullseye puffer ( <i>Sphoeroides</i> ) Tj ETQq1 1 0,784314 rgBT /Overlock 10 Tf 50	0.9	8
72	Gonadotropin induction of spermiation in Senegalese sole: Effect of temperature and stripping time. <i>Aquaculture</i> , 2022, 550, 737844.	1.7	0