

# Culum Brown

## List of Publications by Year in descending order

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124  
papers

7,139  
citations

76326

40  
h-index

69250

77  
g-index

155  
all docs

155  
docs citations

155  
times ranked

5039  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detecting behavioural lateralisation in <i>Poecilia reticulata</i> is strongly dependent on experimental design. <i>Behavioral Ecology and Sociobiology</i> , 2022, 76, 1.	1.4	4
2	Small-scale movement and migration cues of Australian bass ( <i>Perca latipes</i> ) in an urbanised river. <i>Marine and Freshwater Research</i> , 2022, , .	1.3	0
3	Shark habituation to a food-related olfactory cue. <i>Animal Behaviour</i> , 2022, 187, 147-165.	1.9	2
4	Reef manta ray social dynamics depend on individual differences in behaviour. <i>Animal Behaviour</i> , 2022, 191, 43-55.	1.9	6
5	Population variation in the thermal response to climate change reveals differing sensitivity in a benthic shark. <i>Global Change Biology</i> , 2021, 27, 108-120.	9.5	20
6	Intraspecific variation in diel patterns of rocky reef use suggests temporal partitioning in Port Jackson sharks. <i>Marine and Freshwater Research</i> , 2021, 72, 1445-1456.	1.3	8
7	Short-term impacts of daily feeding on the residency, distribution and energy expenditure of sharks. <i>Animal Behaviour</i> , 2021, 172, 55-71.	1.9	16
8	Reef manta ray cephalic lobe movements are modulated during social interactions. <i>Behavioral Ecology and Sociobiology</i> , 2021, 75, 1.	1.4	4
9	Understanding fish cognition: a review and appraisal of current practices. <i>Animal Cognition</i> , 2021, 24, 395-406.	1.8	33
10	Laterality and fish welfare - A review. <i>Applied Animal Behaviour Science</i> , 2021, 236, 105239.	1.9	18
11	Impact of conspecific necromones on the oxygen uptake rates of a benthic elasmobranch. <i>Animal Behaviour</i> , 2021, 174, 1-8.	1.9	4
12	Heterarchy Reveals Social Organization of a Smooth Stingray ( <i>Bathytoshia brevicaudata</i> ) Population in a Provisioned Food Context. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	9
13	Impact of 17 $\beta$ -Ethinylestradiol Increase on Post-Spawning Mortality in the Female Siamese Fighting Fish. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	2.4	2
14	A Fish Memory Tale. , 2021, , 140-173.		0
15	Residency and movement patterns of adult Port Jackson sharks ( <i>Heterodontus</i> )	1.6	16
16	Preliminary observations on the movement ecology of a crested horn shark ( <i>Heterodontus galeatus</i> )	1.6	2
17	Friend or foe? Development of odour detection, differentiation and antipredator response in an embryonic elasmobranch. <i>Marine and Freshwater Research</i> , 2021, , .	1.3	6
18	Social learning in solitary juvenile sharks. <i>Animal Behaviour</i> , 2020, 159, 21-27.	1.9	24

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19	Seasonal and developmental diet shifts in sympatric and allopatric intertidal gobies determined by stomach content and stable isotope analysis. <i>Journal of Fish Biology</i> , 2020, 97, 1051-1062.	1.6	8
20	Big trouble for little fish: identifying Australian freshwater fishes in imminent risk of extinction. <i>Pacific Conservation Biology</i> , 2020, 26, 365.	1.0	42
21	Behavioural lateralization in a detour test is not repeatable in fishes. <i>Animal Behaviour</i> , 2020, 167, 55-64.	1.9	24
22	Assessment of Machine Learning Models to Identify Port Jackson Shark Behaviours Using Tri-Axial Accelerometers. <i>Sensors</i> , 2020, 20, 7096.	3.8	11
23	Effects of reward magnitude and training frequency on the learning rates and memory retention of the Port Jackson shark <i>Heterodontus portusjacksoni</i> . <i>Animal Cognition</i> , 2020, 23, 939-949.	1.8	6
24	Seasonal variation of sexually dimorphic spatial learning implicates mating system in the intertidal Cocos Frillgoby ( <i>Bathygobius cocosensis</i> ). <i>Animal Cognition</i> , 2020, 23, 621-628.	1.8	11
25	Mental Capacities of Fishes. <i>Advances in Neuroethics</i> , 2020, , 53-71.	0.3	8
26	A large-scale automated radio telemetry network for monitoring movements of terrestrial wildlife in Australia. <i>Australian Zoologist</i> , 2020, 40, 379-391.	1.1	6
27	Acoustic accelerometry reveals diel activity patterns in premigratory Port Jackson sharks. <i>Ecology and Evolution</i> , 2019, 9, 8933-8944.	1.9	19
28	Social preferences and network structure in a population of reef manta rays. <i>Behavioral Ecology and Sociobiology</i> , 2019, 73, 1.	1.4	42
29	Behavioral and immunotoxic effects of Prograf® (tacrolimus) in the male Siamese fighting fish. <i>Ecotoxicology</i> , 2019, 28, 1032-1037.	2.4	2
30	Population genetic analyses reveal female reproductive philopatry in the oviparous Port Jackson shark. <i>Marine and Freshwater Research</i> , 2019, 70, 986.	1.3	17
31	Quantity discrimination in Port Jackson sharks incubated under elevated temperatures. <i>Behavioral Ecology and Sociobiology</i> , 2019, 73, 1.	1.4	20
32	Individual differences in numerical skills are influenced by brain lateralization in guppies ( <i>Poecilia</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	3.0	15
33	Lack of social preference between unfamiliar and familiar juvenile Port Jackson sharks <i>Heterodontus portusjacksoni</i> . <i>Journal of Fish Biology</i> , 2019, 95, 520-526.	1.6	4
34	Environmental enrichment influences spatial learning ability in captive-reared intertidal gobies ( <i>Bathygobius cocosensis</i> ). <i>Animal Cognition</i> , 2019, 22, 89-98.	1.8	31
35	Barriers to hybridisation and their conservation implications for a highly threatened Australian fish species. <i>Ethology</i> , 2019, 125, 142-152.	1.1	4
36	Pain and Emotion in Fishes – Fish Welfare Implications for Fisheries and Aquaculture. <i>Animal Studies Journal</i> , 2019, 8, 175-201.	0.2	15

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37	Food approach conditioning and discrimination learning using sound cues in benthic sharks. <i>Animal Cognition</i> , 2018, 21, 481-492.	1.8	15
38	Effects of acclimatisation on behavioural repeatability in two behaviour assays of the guppy <i>Poecilia reticulata</i> . <i>Behavioral Ecology and Sociobiology</i> , 2018, 72, 1.	1.4	20
39	Incubation under Climate Warming Affects Behavioral Lateralisation in Port Jackson Sharks. <i>Symmetry</i> , 2018, 10, 184.	2.2	20
40	Prozac impacts lateralization of aggression in male Siamese fighting fish. <i>Ecotoxicology and Environmental Safety</i> , 2017, 140, 84-88.	6.0	13
41	Fitness Costs of Sexual Harassmentâ€”The Price of Persuasion. <i>Ethology</i> , 2017, 123, 242-250.	1.1	1
42	Contemporary topics in fish cognition and behaviour. <i>Current Opinion in Behavioral Sciences</i> , 2017, 16, 46-52.	3.9	40
43	Trophic transfer of microplastics does not affect fish personality. <i>Animal Behaviour</i> , 2017, 123, 159-167.	1.9	110
44	Learning and robustness to catch-and-release fishing in a shark social network. <i>Biology Letters</i> , 2017, 13, 20160824.	2.3	51
45	Does detection range matter for inferring social networks in a benthic shark using acoustic telemetry?. <i>Royal Society Open Science</i> , 2017, 4, 170485.	2.4	29
46	Male Siamese fighting fish use gill flaring as the first display towards territorial intruders. <i>Journal of Ethology</i> , 2017, 35, 51-59.	0.8	16
47	Long-term migration patterns and bisexual philopatry in a benthic shark species. <i>Marine and Freshwater Research</i> , 2017, 68, 1414.	1.3	46
48	Stress profile influences learning approach in a marine fish. <i>PeerJ</i> , 2017, 5, e3445.	2.0	14
49	The toxicological effect of <i>Ruta graveolens</i> extract in Siamese fighting fish: a behavioral and histopathological approach. <i>Ecotoxicology</i> , 2016, 25, 824-834.	2.4	12
50	Laterality strength is linked to stress reactivity in Port Jackson sharks ( <i>Heterodontus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td (port	2.2	36
51	Microplastics on beaches: ingestion and behavioural consequences for beachhoppers. <i>Marine Biology</i> , 2016, 163, 1.	1.5	82
52	Into the wild: developing field tests to examine the link between elasmobranch personality and laterality. <i>Behaviour</i> , 2016, 153, 1777-1793.	0.8	16
53	Laterality enhances numerical skills in the guppy, <i>Poecilia reticulata</i> . <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 285.	2.0	52
54	Microhabitat Use Affects Brain Size and Structure in Intertidal Gobies. <i>Brain, Behavior and Evolution</i> , 2015, 85, 107-116.	1.7	36

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55	Cue choice and spatial learning ability are affected by habitat complexity in intertidal gobies. <i>Behavioral Ecology</i> , 2015, 26, 178-184.	2.2	31
56	Predator recognition and responses in the endangered Macquarie perch ( <i>Macquaria australasica</i> ). <i>Marine and Freshwater Research</i> , 2015, 66, 127.	1.3	6
57	Microhabitat use affects goby ( <i>Gobiidae</i> ) cue choice in spatial learning task. <i>Journal of Fish Biology</i> , 2015, 86, 1305-1318.	1.6	14
58	Social Learning: Parents May Not Always Know Best. <i>Current Biology</i> , 2015, 25, R802-R804.	3.9	0
59	Variation in Brain Morphology of Intertidal Gobies: A Comparison of Methodologies Used to Quantitatively Assess Brain Volumes in Fish. <i>Brain, Behavior and Evolution</i> , 2015, 85, 245-256.	1.7	28
60	Influence of rock pool characteristics on the distribution and abundance of intertidal fishes. <i>Marine Ecology</i> , 2015, 36, 1332-1344.	1.1	31
61	Fish intelligence, sentience and ethics. <i>Animal Cognition</i> , 2015, 18, 1-17.	1.8	269
62	Laterality is linked to personality in the black-lined rainbowfish, <i>Melanotaenia nigrans</i> . <i>Behavioral Ecology and Sociobiology</i> , 2014, 68, 999-1005.	1.4	25
63	Laterality influences cognitive performance in rainbowfish <i>Melanotaenia duboulayi</i> . <i>Animal Cognition</i> , 2014, 17, 1045-1051.	1.8	45
64	Male brush-turkeys attempt sexual coercion in unusual circumstances. <i>Behavioural Processes</i> , 2014, 106, 180-186.	1.1	4
65	Fish cognition. <i>Current Biology</i> , 2014, 24, R947-R950.	3.9	87
66	A comparison of spatial learning and memory capabilities in intertidal gobies. <i>Behavioral Ecology and Sociobiology</i> , 2014, 68, 1393-1401.	1.4	34
67	Learning and memory in the Port Jackson shark, <i>Heterodontus portusjacksoni</i> . <i>Animal Cognition</i> , 2014, 17, 415-425.	1.8	42
68	Sublethal toxicity of untreated and treated stormwater Zn concentrations on the foraging behaviour of <i>Paratya australiensis</i> (Decapoda: Atyidae). <i>Ecotoxicology</i> , 2014, 23, 1022-1029.	2.4	18
69	Personality affects learning and trade-offs between private and social information in guppies, <i>Poecilia reticulata</i> . <i>Animal Behaviour</i> , 2014, 88, 99-106.	1.9	122
70	Examining the link between personality and laterality in a feral guppy <i>Poecilia reticulata</i> population. <i>Journal of Fish Biology</i> , 2013, 83, 311-325.	1.6	60
71	Site fidelity and homing behaviour in intertidal fishes. <i>Marine Biology</i> , 2013, 160, 1365-1372.	1.5	61
72	Social learning in juvenile lemon sharks, <i>Negaprion brevirostris</i> . <i>Animal Cognition</i> , 2013, 16, 55-64.	1.8	54

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73	Hatching success of rainbowfish eggs following exposure to air. Australian Journal of Zoology, 2013, 61, 395.	1.0	4
74	Evolutionary Responses to Invasion: Cane Toad Sympatric Fish Show Enhanced Avoidance Learning. PLoS ONE, 2013, 8, e54909.	2.5	21
75	Predator Recognition in Rainbowfish, <i>Melanotaenia duboulayi</i> , Embryos. PLoS ONE, 2013, 8, e76061.	2.5	34
76	The Effect of Sex and Early Environment on the Lateralization of the Rainbowfish <i>Melanotaenia duboulayi</i> . , 2013, , 9-24.		15
77	Laterality Influences Schooling Position in Rainbowfish, <i>Melanotaenia</i> spp. PLoS ONE, 2013, 8, e80907.	2.5	30
78	It pays to cheat: tactical deception in a cephalopod social signalling system. Biology Letters, 2012, 8, 729-732.	2.3	91
79	Nursing females are more prone to heat stress: Demography matters when managing flying-foxes for climate change. Applied Animal Behaviour Science, 2012, 142, 90-97.	1.9	6
80	Complex patterns of male alliance formation in a dolphin social network. Journal of Mammalogy, 2012, 93, 239-250.	1.3	55
81	Blood cortisol concentrations predict boldness in juvenile mulloway ( <i>Argyrosomus japonicus</i> ). Journal of Ethology, 2012, 30, 225-232.	0.8	41
82	Superglue is Not Super: An Assessment of Superglue for Suturing Tag Incisions in a Cultured Marine Fish. Journal of the World Aquaculture Society, 2012, 43, 140-143.	2.4	9
83	Tool use in fishes. Fish and Fisheries, 2012, 13, 105-115.	5.3	56
84	Identification of the rainbowfish in Lake Eacham using DNA sequencing. Australian Journal of Zoology, 2012, 60, 334.	1.0	3
85	Experience and learning in changing environments. , 2012, , 46-60.		28
86	A non-invasive assay for monitoring stress responses: A comparison between wild and captive-reared rainbowfish ( <i>Melanoteania duboulayi</i> ). Aquaculture, 2011, 321, 267-272.	3.5	21
87	Personality traits predict hierarchy rank in male rainbowfish social groups. Animal Behaviour, 2011, 81, 1231-1237.	1.9	135
88	Tool use in the tuskfish <i>Choerodon schoenleinii</i> ?. Coral Reefs, 2011, 30, 865-865.	2.2	40
89	The evolution of lateralized foot use in parrots: a phylogenetic approach. Behavioral Ecology, 2011, 22, 1201-1208.	2.2	65
90	Cerebral lateralization determines hand preferences in Australian parrots. Biology Letters, 2011, 7, 496-498.	2.3	53

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91	Learned recognition and avoidance of invasive mosquitofish by the shrimp, <i>Paratya australiensis</i> . <i>Marine and Freshwater Research</i> , 2011, 62, 1230.	1.3	17
92	Microclimate preferences of the grey-headed flying fox ( <i>Pteropus poliocephalus</i> ) in the Sydney region. <i>Australian Journal of Zoology</i> , 2010, 58, 376.	1.0	8
93	Non-invasive genetic sampling of faecal material and hair from the grey-headed flying-fox ( <i>Pteropus</i> ) Tj ETQq1 1 0.784314 rgBT /Over	1.1	7
94	Loss of shoaling preference for familiar individuals in captive-reared crimson spotted rainbowfish <i>Melanotaenia duboulayi</i> . <i>Journal of Fish Biology</i> , 2009, 74, 2187-2195.	1.6	21
95	Laterality enhances cognition in Australian parrots. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 4155-4162.	2.6	165
96	Behavioural interactions between the introduced plague minnow <i>Gambusia holbrooki</i> and the vulnerable native Australian ornate rainbowfish <i>Rhadinocentrus ornatatus</i> , under experimental conditions. <i>Journal of Fish Biology</i> , 2008, 73, 1714-1729.	1.6	32
97	Correlation between boldness and body mass in natural populations of the poeciliid <i>Brachyrhaphis episcopi</i> . <i>Journal of Fish Biology</i> , 2007, 71, 1590-1601.	1.6	137
98	Distribution and habitats of mosquito larvae in the Kingdom of Tonga. <i>Australian Journal of Entomology</i> , 2007, 46, 332-338.	1.1	7
99	The influence of early experience on, and inheritance of, cerebral lateralization. <i>Animal Behaviour</i> , 2007, 74, 231-238.	1.9	90
100	Heritable and experiential effects on boldness in a tropical poeciliid. <i>Behavioral Ecology and Sociobiology</i> , 2007, 62, 237-243.	1.4	215
101	Reproductive isolation in a threespine stickleback hybrid zone. <i>Journal of Evolutionary Biology</i> , 2006, 19, 1531-1544.	1.7	76
102	Effects of predation pressure on the cognitive ability of the poeciliid <i>Brachyrhaphis episcopi</i> . <i>Behavioral Ecology</i> , 2005, 16, 482-487.	2.2	131
103	In situ examination of boldness-shyness traits in the tropical poeciliid, <i>Brachyrhaphis episcopi</i> . <i>Animal Behaviour</i> , 2005, 70, 1003-1009.	1.9	299
104	Differential stress responses in fish from areas of high- and low-predation pressure. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2005, 175, 305-312.	1.5	113
105	cerebral lateralisation, social constraints, and coordinated anti-predator responses. <i>Behavioral and Brain Sciences</i> , 2005, 28, 591-592.	0.7	23
106	Population variation in lateralized eye use in the poeciliid <i>Brachyrhaphis episcopi</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2004, 271, S455-7.	2.6	93
107	Size matters: a test of boldness in eight populations of the poeciliid <i>Brachyrhaphis episcopi</i> . <i>Animal Behaviour</i> , 2004, 68, 1325-1329.	1.9	280
108	Habitat-predator association and avoidance in rainbowfish ( <i>Melanotaenia</i> spp.). <i>Ecology of Freshwater Fish</i> , 2003, 12, 118-126.	1.4	28

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109	Social learning in fishes: a review. <i>Fish and Fisheries</i> , 2003, 4, 280-288.	5.3	437
110	Learning in fishes: from three-second memory to culture. <i>Fish and Fisheries</i> , 2003, 4, 199-202.	5.3	84
111	Social learning of prey location in hatchery-reared Atlantic salmon. <i>Journal of Fish Biology</i> , 2003, 63, 738-745.	1.6	46
112	Environmental enrichment and prior experience of live prey improve foraging behaviour in hatchery-reared Atlantic salmon. <i>Journal of Fish Biology</i> , 2003, 63, 187-196.	1.6	171
113	Do female rainbowfish ( <i>Melanotaenia</i> spp.) prefer to shoal with familiar individuals under predation pressure?. <i>Journal of Ethology</i> , 2002, 20, 89-94.	0.8	31
114	The future of stock enhancements: lessons for hatchery practice from conservation biology. <i>Fish and Fisheries</i> , 2002, 3, 79-94.	5.3	355
115	Social learning of a novel avoidance task in the guppy: conformity and social release. <i>Animal Behaviour</i> , 2002, 64, 41-47.	1.9	70
116	Social enhancement and social inhibition of foraging behaviour in hatchery-reared Atlantic salmon. <i>Journal of Fish Biology</i> , 2002, 61, 987-998.	1.6	2
117	Familiarity with the test environment improves escape responses in the crimson spotted rainbowfish, <i>Melanotaenia duboulayi</i> . <i>Animal Cognition</i> , 2001, 4, 109-113.	1.8	89
118	Familiarity facilitates social learning of foraging behaviour in the guppy. <i>Animal Behaviour</i> , 2001, 62, 591-598.	1.9	234
119	Interactions between shoal size and conformity in guppy social foraging. <i>Animal Behaviour</i> , 2001, 62, 917-925.	1.9	183
120	Social learning and life skills training for hatchery reared fish. <i>Journal of Fish Biology</i> , 2001, 59, 471-493.	1.6	340
121	Differences in Timidity and Escape Responses between Predator-naive and Predator-sympatric Rainbowfish Populations. <i>Ethology</i> , 1999, 105, 491-502.	1.1	53
122	Social Mechanisms Enhance Escape Responses in Shoals of Rainbowfish, <i>Melanotaenia duboulayi</i> . <i>Environmental Biology of Fishes</i> , 1999, 56, 455-459.	1.0	52
123	Predator recognition and anti-predator responses in the rainbowfish <i>Melanotaenia eachamensis</i> . <i>Behavioral Ecology and Sociobiology</i> , 1997, 41, 61-68.	1.4	81
124	Fish – How to Ask Them the Right Questions. , 0, , 199-221.		3