

# Simon Mackenzie

## List of Publications by Year in descending order

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97  
papers

4,593  
citations

87401

40  
h-index

124990

64  
g-index

108  
all docs

108  
docs citations

108  
times ranked

5412  
citing authors

#	ARTICLE	IF	CITATIONS
1	Changes in circulating insulin-like growth factor-1 and its binding proteins in yearling rainbow trout during spring under natural and manipulated photoperiods and their relationships with gill Na <sup>+</sup> , K <sup>+</sup> -ATPase and body size. <i>Comparative Biochemistry and Physiology Part A, Molecular &amp; Integrative Physiology</i> , 2022, 268, 111205.	0.8	1
2	Aerobic swimming in intensive finfish aquaculture: applications for production, mitigation and selection. <i>Reviews in Aquaculture</i> , 2021, 13, 138-155.	4.6	32
3	Analysis across diverse fish species highlights no conserved transcriptome signature for proactive behaviour. <i>BMC Genomics</i> , 2021, 22, 33.	1.2	8
4	Endoplasmic reticulum stress as a key mechanism in stunted growth of seawater rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>BMC Genomics</i> , 2021, 22, 824.	1.2	4
5	Mycotoxins in aquaculture: feed and food. <i>Reviews in Aquaculture</i> , 2020, 12, 145-175.	4.6	49
6	Risk assessment of the use of alternative animal and plant raw material resources in aquaculture feeds. <i>Reviews in Aquaculture</i> , 2020, 12, 703-758.	4.6	107
7	Linking stress coping styles with brain mRNA abundance of selected transcripts for Senegalese sole ( <i>Solea senegalensis</i> ) juveniles. <i>Physiology and Behavior</i> , 2020, 213, 112724.	1.0	10
8	Effects of temperature and photoperiod on rainbow trout ( <i>Oncorhynchus mykiss</i> ) smoltification and haematopoiesis. <i>Aquaculture</i> , 2020, 519, 734711.	1.7	5
9	Plasma proteome profiling of freshwater and seawater life stages of rainbow trout ( <i>Oncorhynchus</i> ) Tj ETQq1 1 0.784314 rgBT / Overl	1.1	17
10	Polarized Trout Epithelial Cells Regulate Transepithelial Electrical Resistance, Gene Expression, and the Phosphoproteome in Response to Viral Infection. <i>Frontiers in Immunology</i> , 2020, 11, 1809.	2.2	8
11	Innovation in Nucleotide-Binding Oligomerization-Like Receptor and Toll-Like Receptor Sensing Drives the Major Histocompatibility Complex-II Free Atlantic Cod Immune System. <i>Frontiers in Immunology</i> , 2020, 11, 609456.	2.2	5
12	Physiological responses during acute stress recovery depend on stress coping style in European sea bass, <i>Dicentrarchus labrax</i> . <i>Physiology and Behavior</i> , 2020, 216, 112801.	1.0	14
13	Effects of deoxynivalenol exposure time and contamination levels on rainbow trout. <i>Journal of the World Aquaculture Society</i> , 2019, 50, 137-154.	1.2	6
14	Effects of different photoperiod regimes on the smoltification and seawater adaptation of seawater-farmed rainbow trout ( <i>Oncorhynchus mykiss</i> ): Insights from Na <sup>+</sup> , K <sup>+</sup> -ATPase activity and transcription of osmoregulation and growth regulation genes. <i>Aquaculture</i> , 2019, 507, 282-292.	1.7	20
15	Impact of deoxynivalenol on rainbow trout: Growth performance, digestibility, key gene expression regulation and metabolism. <i>Aquaculture</i> , 2018, 490, 362-372.	1.7	24
16	Functional evidence for the inflammatory reflex in teleosts: A novel $\alpha 7$ nicotinic acetylcholine receptor modulates the macrophage response to dsRNA. <i>Developmental and Comparative Immunology</i> , 2018, 84, 279-291.	1.0	9
17	The expression of TRPV channels, prostaglandin E2 and pro-inflammatory cytokines during behavioural fever in fish. <i>Brain, Behavior, and Immunity</i> , 2018, 71, 169-181.	2.0	45
18	Fate of [3H]-Deoxynivalenol in Rainbow Trout ( <i>Oncorhynchus mykiss</i> ) Juveniles: Tissue Distribution and Excretion. <i>Journal of Aquaculture Research &amp; Development</i> , 2018, 09, .	0.4	3

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19	“Love at first sight”™: The effect of personality and colouration patterns in the reproductive success of zebrafish ( <i>Danio rerio</i> ). PLoS ONE, 2018, 13, e0203320.	1.1	13
20	Behavioral Fever Drives Epigenetic Modulation of the Immune Response in Fish. <i>Frontiers in Immunology</i> , 2018, 9, 1241.	2.2	20
21	Stress induced hyperthermia in zebrafish: a reply to Key <i>et al.</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162124.	1.2	1
22	Behavioural fever in zebrafish larvae. <i>Developmental and Comparative Immunology</i> , 2017, 67, 287-292.	1.0	17
23	Extending Immunological Profiling in the Gilthead Sea Bream, <i>Sparus aurata</i> , by Enriched cDNA Library Analysis, Microarray Design and Initial Studies upon the Inflammatory Response to PAMPs. <i>International Journal of Molecular Sciences</i> , 2017, 18, 317.	1.8	5
24	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
25	An improved version of the Atlantic cod genome and advancements in functional genomics: implications for the future of cod farming. , 2016, , 45-72.		25
26	Future perspective. , 2016, , 275-277.		1
27	Differential responses to environmental challenge by common carp ( <i>Cyprinus carpio</i> ) highlight the importance of coping style in integrative physiology. <i>Journal of Fish Biology</i> , 2016, 88, 1056-1069.	0.7	14
28	Thermal preference predicts animal personality in Nile tilapia ( <i>Oreochromis niloticus</i> ). <i>Journal of Animal Ecology</i> , 2016, 85, 1389-1400.	1.3	45
29	The response of fish to immunostimulant diets. <i>Fish and Shellfish Immunology</i> , 2016, 56, 34-69.	1.6	260
30	Iron and Fur in the life cycle of the zoonotic pathogen <i>Vibrio vulnificus</i> . <i>Environmental Microbiology</i> , 2016, 18, 4005-4022.	1.8	49
31	Long noncoding RNAs (lncRNAs) dynamics evidence immunomodulation during ISAV-Infected Atlantic salmon ( <i>Salmo salar</i> ). <i>Scientific Reports</i> , 2016, 6, 22698.	1.6	55
32	An Enriched European Eel Transcriptome Sheds Light upon Host-Pathogen Interactions with <i>Vibrio vulnificus</i> . PLoS ONE, 2015, 10, e0133328.	1.1	10
33	Early steps in the European eel ( <i>Anguilla anguilla</i> ) “ <i>Vibrio vulnificus</i> interaction in the gills: Role of the RtxA13 toxin. <i>Fish and Shellfish Immunology</i> , 2015, 43, 502-509.	1.6	26
34	Zebrafish liver (ZFL) cells are able to mount an anti-viral response after stimulation with Poly (I:C). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2015, 182, 55-63.	0.7	18
35	Differential immune gene expression profiles in susceptible and resistant full-sibling families of Atlantic salmon ( <i>Salmo salar</i> ) challenged with infectious pancreatic necrosis virus (IPNV). <i>Developmental and Comparative Immunology</i> , 2015, 53, 210-221.	1.0	72
36	Animal Personality Relates to Thermal Preference in Wild-Type Zebrafish, <i>Danio rerio</i> . <i>Zebrafish</i> , 2015, 12, 243-249.	0.5	46

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37	Fish can show emotional fever: stress-induced hyperthermia in zebrafish. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20152266.	1.2	51
38	Investigating the underlying mechanisms of temperature-related skin diseases in Atlantic salmon, <i>Salmo salar</i> L., as measured by quantitative histology, skin transcriptomics and composition. <i>Journal of Fish Diseases</i> , 2015, 38, 977-992.	0.9	29
39	Transcriptome Profiles Associated to VHSV Infection or DNA Vaccination in Turbot ( <i>Scophthalmus</i> )	1.1	31
40	Autophagy-inducing peptides from mammalian VSV and fish VHSV rhabdoviral G glycoproteins (G) as models for the development of new therapeutic molecules. <i>Autophagy</i> , 2014, 10, 1666-1680.	4.3	73
41	The Involvement of Cholesterol in Sepsis and Tolerance to Lipopolysaccharide Highlighted by the Transcriptome Analysis of Zebrafish ( <i>Danio rerio</i> ). <i>Zebrafish</i> , 2014, 11, 421-433.	0.5	20
42	Lipopolysaccharides isolated from <i>Aeromonas salmonicida</i> and <i>Vibrio anguillarum</i> show quantitative but not qualitative differences in inflammatory outcome in <i>Sparus aurata</i> (Gilthead seabream). <i>Fish and Shellfish Immunology</i> , 2014, 39, 475-482.	1.6	18
43	Targeting and stimulation of the zebrafish ( <i>Danio rerio</i> ) innate immune system with LPS/dsRNA-loaded nanoliposomes. <i>Vaccine</i> , 2014, 32, 3955-3962.	1.7	44
44	Characterization of PAMP/PRR interactions in European eel ( <i>Anguilla anguilla</i> ) macrophage-like primary cell cultures. <i>Fish and Shellfish Immunology</i> , 2013, 35, 1216-1223.	1.6	35
45	Effects of Chronic Cortisol Administration on Global Expression of GR and the Liver Transcriptome in <i>Sparus aurata</i> . <i>Marine Biotechnology</i> , 2013, 15, 104-114.	1.1	34
46	Combining animal personalities with transcriptomics resolves individual variation within a wild-type zebrafish population and identifies underpinning molecular differences in brain function. <i>Molecular Ecology</i> , 2013, 22, 6100-6115.	2.0	66
47	Behavioural fever is a synergic signal amplifying the innate immune response. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131381.	1.2	104
48	Abundance of the Quorum-Sensing Factor Ax21 in Four Strains of <i>Stenotrophomonas maltophilia</i> Correlates with Mortality Rate in a New Zebrafish Model of Infection. <i>PLoS ONE</i> , 2013, 8, e67207.	1.1	33
49	A Novel Liposome-Based Nanocarrier Loaded with an LPS-dsRNA Cocktail for Fish Innate Immune System Stimulation. <i>PLoS ONE</i> , 2013, 8, e76338.	1.1	40
50	Tumor Necrosis Factor Alpha May Act as an Intraovarian Mediator of Luteinizing Hormone-Induced Oocyte Maturation in Trout. <i>Biology of Reproduction</i> , 2012, 86, 1-12.	1.2	15
51	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> ). <i>General and Comparative Endocrinology</i> , 2012, 177, 256-262.	0.8	30
52	Welfare of farmed fish in present and future production systems. <i>Fish Physiology and Biochemistry</i> , 2012, 38, 1-3.	0.9	18
53	Identification of genes involved in immune response of Atlantic salmon ( <i>Salmo salar</i> ) to IPN virus infection, using expressed sequence tag (EST) analysis. <i>Aquaculture</i> , 2011, 318, 54-60.	1.7	32
54	PAMPs, PRRs and the genomics of gram negative bacterial recognition in fish. <i>Developmental and Comparative Immunology</i> , 2011, 35, 1195-1203.	1.0	93

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55	Changes in complement responses in Gilthead seabream ( <i>Sparus aurata</i> ) and European seabass ( <i>Dicentrarchus labrax</i> ) under crowding stress, plus viral and bacterial challenges. <i>Fish and Shellfish Immunology</i> , 2011, 30, 182-188.	1.6	75
56	Molecular cloning and characterization of European seabass ( <i>Dicentrarchus labrax</i> ) and Gilthead seabream ( <i>Sparus aurata</i> ) complement component C3. <i>Fish and Shellfish Immunology</i> , 2011, 30, 1310-1322.	1.6	27
57	Gene expression and TNF-alpha secretion profile in rainbow trout macrophages following exposures to copper and bacterial lipopolysaccharide. <i>Fish and Shellfish Immunology</i> , 2011, 30, 340-346.	1.6	68
58	Is there a direct role for erythrocytes in the immune response?. <i>Veterinary Research</i> , 2011, 42, 89.	1.1	109
59	Endotoxin recognition in fish results in inflammatory cytokine secretion not gene expression. <i>Innate Immunity</i> , 2011, 17, 16-28.	1.1	42
60	Direct involvement of tumor necrosis factor- $\beta$ in the regulation of glucose uptake in rainbow trout muscle cells. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 300, R716-R723.	0.9	16
61	RNA-Seq Reveals an Integrated Immune Response in Nucleated Erythrocytes. <i>PLoS ONE</i> , 2011, 6, e26998.	1.1	130
62	The Effects of Immunostimulation Through Dietary Manipulation in the Rainbow Trout; Evaluation of Mucosal Immunity. <i>Marine Biotechnology</i> , 2010, 12, 88-99.	1.1	28
63	Cellular and molecular evidence for a role of tumor necrosis factor alpha in the ovulatory mechanism of trout. <i>Reproductive Biology and Endocrinology</i> , 2010, 8, 34.	1.4	34
64	A genetic basis for the phenotypic differentiation between siscowet and lean lake trout ( <i>Salvelinus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 T	2.6	110
65	Coping strategies in a strongly schooling fish, the common carp <i>Cyprinus carpio</i> . <i>Journal of Fish Biology</i> , 2010, 76, 1576-1591.	0.7	161
66	Inflammation and Innate Immune Response Against Viral Infections in Marine Fish. <i>Current Pharmaceutical Design</i> , 2010, 16, 4175-4184.	0.9	13
67	Peptidoglycan, not endotoxin, is the key mediator of cytokine gene expression induced in rainbow trout macrophages by crude LPS. <i>Molecular Immunology</i> , 2010, 47, 1450-1457.	1.0	91
68	Screening for Coping Style Increases the Power of Gene Expression Studies. <i>PLoS ONE</i> , 2009, 4, e5314.	1.1	71
69	Characterization and expression of NADPH oxidase in LPS-, poly(I:C)- and zymosan-stimulated trout ( <i>Oncorhynchus mykiss</i> W.) macrophages. <i>Fish and Shellfish Immunology</i> , 2009, 26, 651-661.	1.6	22
70	Stress-related hormones modulate cytokine expression in the head kidney of gilthead seabream ( <i>Sparus aurata</i> ). <i>Fish and Shellfish Immunology</i> , 2009, 27, 493-499.	1.6	100
71	Comparative analysis of the acute response of the trout, <i>O. mykiss</i> , head kidney to in vivo challenge with virulent and attenuated infectious hematopoietic necrosis virus and LPS-induced inflammation. <i>BMC Genomics</i> , 2008, 9, 141.	1.2	67
72	Molecular characterization of interleukin-6 in the gilthead seabream ( <i>Sparus aurata</i> ). <i>Molecular Immunology</i> , 2008, 45, 3363-3370.	1.0	65

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73	Characterization and expression of the transcription factor PU.1 during LPS-induced inflammation in the rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Fish and Shellfish Immunology</i> , 2008, 24, 35-45.	1.6	17
74	Functional genomics with microarrays in fish biology and fisheries. <i>Fish and Fisheries</i> , 2008, 9, 378-395.	2.7	46
75	The Proinflammatory Cytokine Tumor Necrosis Factor- $\alpha$ Increases the Amount of Glucose Transporter-4 at the Surface of Muscle Cells Independently of Changes in Interleukin-6. <i>Endocrinology</i> , 2008, 149, 1880-1889.	1.4	20
76	Genomic Tools for Examining Immune Gene Function in Salmonid Fish. <i>Reviews in Fisheries Science</i> , 2008, 16, 112-118.	2.1	15
77	Stress-induced regulation of steroidogenic acute regulatory protein expression in head kidney of Gilthead seabream ( <i>Sparus aurata</i> ). <i>Journal of Endocrinology</i> , 2008, 196, 313-322.	1.2	45
78	Comparison of methods for anaesthetizing Senegal sole ( <i>Solea senegalensis</i> ) before slaughter: Stress responses and final product quality. <i>Aquaculture</i> , 2007, 269, 250-258.	1.7	56
79	Cloning of the glucocorticoid receptor (GR) in gilthead seabream ( <i>Sparus aurata</i> ). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2007, 148, 32-43.	0.7	59
80	CD83 expression in sea bream macrophages is a marker for the LPS-induced inflammatory response. <i>Fish and Shellfish Immunology</i> , 2007, 23, 877-885.	1.6	32
81	Cloning and expression analysis of an IL-6 homolog in rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Molecular Immunology</i> , 2007, 44, 1803-1807.	1.0	96
82	Analysis of the rainbow trout solute carrier 11 family reveals iron import @ $\frac{1}{2}$ pH 7.4 and a functional isoform lacking transmembrane domains 11 and 12. <i>FEBS Letters</i> , 2007, 581, 2599-2604.	1.3	34
83	Pathogen-associated gene expression profiles in rainbow trout macrophages. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2006, 1, 416-422.	0.4	13
84	Bacterial lipopolysaccharide induces apoptosis in the trout ovary. <i>Reproductive Biology and Endocrinology</i> , 2006, 4, 46.	1.4	43
85	Transcriptional analysis of LPS-stimulated activation of trout ( <i>Oncorhynchus mykiss</i> ) monocyte/macrophage cells in primary culture treated with cortisol. <i>Molecular Immunology</i> , 2006, 43, 1340-1348.	1.0	135
86	Control of adipose tissue lipid metabolism by tumor necrosis factor- $\alpha$ in rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>Journal of Endocrinology</i> , 2005, 184, 527-534.	1.2	42
87	Activation of rainbow trout ( <i>Oncorhynchus mykiss</i> ) mononuclear phagocytes by different pathogen associated molecular pattern (PAMP) bearing agents. <i>Molecular Immunology</i> , 2005, 42, 1215-1223.	1.0	72
88	Endotoxin recognition: In fish or not in fish?. <i>FEBS Letters</i> , 2005, 579, 6519-6528.	1.3	226
89	Characterization of a highly inducible novel CC chemokine from differentiated rainbow trout ( <i>Oncorhynchus mykiss</i> ) macrophages. <i>Immunogenetics</i> , 2004, 56, 611-615.	1.2	38
90	Tumor necrosis factors. <i>Developmental and Comparative Immunology</i> , 2004, 28, 487-497.	1.0	220

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91	Analysis of genes isolated from lipopolysaccharide-stimulated rainbow trout ( <i>Oncorhynchus mykiss</i> ) macrophages. <i>Molecular Immunology</i> , 2004, 41, 1199-1210.	1.0	92
92	A differentially expressed enolase gene isolated from the gilthead sea bream ( <i>Sparus aurata</i> ) under high-density conditions is up-regulated in brain after in vivo lipopolysaccharide challenge. <i>Aquaculture</i> , 2004, 241, 195-206.	1.7	27
93	LPS-stimulated expression of a tumor necrosis factor-alpha mRNA in primary trout monocytes and in vitro differentiated macrophages. <i>Developmental and Comparative Immunology</i> , 2003, 27, 393-400.	1.0	123
94	An Intron Is Required for Dihydrofolate Reductase Protein Stability. <i>Journal of Biological Chemistry</i> , 2003, 278, 38292-38300.	1.6	26
95	The effects of dietary sodium loading on the activity and expression of Na, K-ATPase in the rectal gland of the European Dogfish ( <i>Scyliorhinus canicula</i> ). <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2002, 131, 185-200.	0.7	40
96	Integrating signals from T-cell receptor and serum by T cells enhance translation of tumour necrosis factor-alpha. <i>Immunology</i> , 2001, 102, 416-425.	2.0	6
97	Effects of Extracellular Sodium Concentration on the Activity of Na, K-ATPase in Dogfish Rectal Gland Epithelial Cells. <i>Annals of the New York Academy of Sciences</i> , 1997, 834, 565-568.	1.8	2