Matthew L Rise

List of Publications by Year
in descending order

103	4,335	81134	115754
papers	citations	38 h-index	61 g-index

106	106	106	5673
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Development and Application of a Salmonid EST Database and cDNA Microarray: Data Mining and Interspecific Hybridization Characteristics. Genome Research, 2004, 14, 478-490.	5.5	279
2	Fish and chips: Various methodologies demonstrate utility of a 16,006-gene salmonid microarray. BMC Genomics, 2005, 6, 126.	2.9	180
3	A Comparison of the Innate and Adaptive Immune Systems in Cartilaginous Fish, Ray-Finned Fish, and Lobe-Finned Fish. Frontiers in Immunology, 2019, 10, 2292.	4.8	169
4	Microarray analyses identify molecular biomarkers of Atlantic salmon macrophage and hematopoietic kidney response toPiscirickettsia salmonisinfection. Physiological Genomics, 2004, 20, 21-35.	2.2	164
5	RNA viruses in the sea. FEMS Microbiology Reviews, 2009, 33, 295-323.	8.6	143
6	The fight between the teleost fish immune response and aquatic viruses. Molecular Immunology, 2010, 47, 2525-2536.	2.4	131
7	Domestication and growth hormone transgenesis cause similar changes in gene expression in coho salmon (Oncorhynchus kisutch). Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3047-3052.	7.5	124
8	Transcriptome profiling the gills of amoebic gill disease (AGD)-affected Atlantic salmon (Salmo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	2.2	102
9	Functional Annotation of All Salmonid Genomes (FAASG): an international initiative supporting future salmonid research, conservation and aquaculture. BMC Genomics, 2017, 18, 484.	2.9	100
10	A physical map of the genome of Atlantic salmon, Salmo salar. Genomics, 2005, 86, 396-404.	2.9	98
11	A Comprehensive Survey of the Genes Involved in Maturation and Development of the Rainbow Trout Ovary1. Biology of Reproduction, 2005, 72, 687-699.	2.6	95
12	Functional genomic analysis of the response of Atlantic cod (Gadus morhua) spleen to the viral mimic polyriboinosinic polyribocytidylic acid (pIC). Developmental and Comparative Immunology, 2008, 32, 916-931.	2.2	92
13	Transcriptome responses to heat stress in the nucleated red blood cells of the rainbow trout (Oncorhynchus mykiss). Physiological Genomics, 2010, 42, 361-373.	2.2	92
14	Identification and analysis of differentially expressed genes in immune tissues of Atlantic cod stimulated with formalin-killed, atypicalAeromonas salmonicida. Physiological Genomics, 2009, 37, 149-163.	2.2	88
15	The dietary replacement of marine ingredients by terrestrial animal and plant alternatives modulates the antiviral immune response of Atlantic salmon (Salmo salar). Fish and Shellfish Immunology, 2017, 64, 24-38.	3.7	76
16	Heat-shock responsive genes identified and validated in Atlantic cod (Gadus morhua) liver, head kidney and skeletal muscle using genomic techniques. BMC Genomics, 2010, 11, 72.	2.9	73
17	Transcriptome profiling of antiviral immune and dietary fatty acid dependent responses of Atlantic salmon macrophage-like cells. BMC Genomics, 2017, 18, 706.	2.9	70
18	Discovery of microRNAs associated with the antiviral immune response of Atlantic cod macrophages. Molecular Immunology, 2018, 93, 152-161.	2.4	70

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19	Growth performance, tissue composition, and gene expression responses in Atlantic salmon (Salmo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 14	3.5	67
20	Infectious salmon anaemia virus (ISAV) isolates induce distinct gene expression responses in the Atlantic salmon (Salmo salar) macrophage/dendritic-like cell line TO, assessed using genomic techniques. Molecular Immunology, 2009, 46, 2955-2974.	2.4	66
21	A moderate increase in ambient temperature modulates the Atlantic cod (Gadus morhua) spleen transcriptome response to intraperitoneal viral mimic injection. BMC Genomics, 2012, 13, 431.	2.9	62
22	Transcriptome profiling of the antiviral immune response in Atlantic cod macrophages. Developmental and Comparative Immunology, 2016, 63, 187-205.	2.2	59
23	Impact of asymptomatic nodavirus carrier state and intraperitoneal viral mimic injection on brain transcript expression in Atlantic cod (Gadus morhua). Physiological Genomics, 2010, 42, 266-280.	2.2	56
24	Atlantic salmon (Salmo salar) liver transcriptome response to diets containing Camelina sativa products. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2015, 14, 1-15.	1.1	55
25	The transcriptomic responses of Atlantic salmon (Salmo salar) to high temperature stress alone, and in combination with moderate hypoxia. BMC Genomics, 2021, 22, 261.	2.9	54
26	Changes in the liver transcriptome of farmed Atlantic salmon (Salmo salar) fed experimental diets based on terrestrial alternatives to fish meal and fish oil. BMC Genomics, 2018, 19, 796.	2.9	53
27	Molecular targets of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) within the zebrafish ovary: Insights into TCDD-induced endocrine disruption and reproductive toxicity. Reproductive Toxicology, 2008, 25, 47-57.	3.0	52
28	Characterization of the fatty acyl elongase (elovl) gene family, and hepatic elovl and delta-6 fatty acyl desaturase transcript expression and fatty acid responses to diets containing camelina oil in Atlantic cod (Gadus morhua). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2014, 175, 9-22.	1.7	52
29	Toxicological effect of single contaminants and contaminant mixtures associated with plant ingredients in novel salmon feeds. Food and Chemical Toxicology, 2014, 73, 157-174.	3.7	51
30	Immune modulatory properties of 6-gingerol and resveratrol in Atlantic salmon macrophages. Molecular Immunology, 2018, 95, 10-19.	2.4	47
31	Aeromonas salmonicida subsp. salmonicida Early Infection and Immune Response of Atlantic Cod (Gadus morhua L.) Primary Macrophages. Frontiers in Immunology, 2019, 10, 1237.	4.8	47
32	The impact of a moderate chronic temperature increase on spleen immune-relevant gene transcription depends on whether Atlantic cod (Gadus morhua) are stimulated with bacterial versus viral antigens. Genome, 2013, 56, 567-576.	2.2	46
33	Characterization and expression studies of Gaduscidin-1 and Gaduscidin-2; paralogous antimicrobial peptide-like transcripts from Atlantic cod (Gadus morhua). Developmental and Comparative Immunology, 2011, 35, 399-408.	2.2	45
34	Characterization and expression analyses of five interferon regulatory factor transcripts (Irf4a,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 14	3.7	44
35	DNA Methylation Dynamics in Atlantic Salmon (Salmo salar) Challenged With High Temperature and Moderate Hypoxia. Frontiers in Marine Science, 2021, 7, .	2.5	44
36	Effects of Vitamin D2 (Ergocalciferol) and D3 (Cholecalciferol) on Atlantic Salmon (Salmo salar) Primary Macrophage Immune Response to Aeromonas salmonicida subsp. salmonicida Infection. Frontiers in Immunology, 2019, 10, 3011.	4.8	43

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37	Development and Experimental Validation of a 20K Atlantic Cod (Gadus morhua) Oligonucleotide Microarray Based on a Collection of over 150,000 ESTs. Marine Biotechnology, 2011, 13, 733-750.	2.3	42
38	Characterization and Transcript Expression Analyses of Atlantic Cod Viperin. Frontiers in Immunology, 2019, 10, 311.	4.8	42
39	De novo assembly of Sockeye salmon kidney transcriptomes reveal a limited early response to piscine reovirus with or without infectious hematopoietic necrosis virus superinfection. BMC Genomics, 2016, 17, 848.	2.9	41
40	Effect of plant-based diets with varying ratios of Ï‰6 to Ï‰3 fatty acids on growth performance, tissue composition, fatty acid biosynthesis and lipid-related gene expression in Atlantic salmon (Salmo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	1.1	39
41	An Integrated Approach to Gene Discovery and Marker Development in Atlantic Cod (Gadus morhua). Marine Biotechnology, 2011, 13, 242-255.	2.3	37
42	The Innate Immune Response of Atlantic Salmon (Salmo salar) Is Not Negatively Affected by High Temperature and Moderate Hypoxia. Frontiers in Immunology, 2020, 11, 1009.	4.8	37
43	Structureâ€“function relationships in histidine-rich antimicrobial peptides from Atlantic cod. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 1451-1461.	2.7	35
44	Dietary Immunostimulant CpG Modulates MicroRNA Biomarkers Associated with Immune Responses in Atlantic Salmon (Salmo salar). Cells, 2019, 8, 1592.	4.2	35
45	Profiling the transcriptome response of Atlantic salmon head kidney to formalin-killed Renibacterium salmoninarum. Fish and Shellfish Immunology, 2020, 98, 937-949.	3.7	34
46	Family-specific differences in growth rate and hepatic gene expression in juvenile triploid growth hormone (GH) transgenic Atlantic salmon (Salmo salar). Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2013, 8, 317-333.	1.1	33
47	Full characterization and transcript expression profiling of the interferon regulatory factor (IRF) gene family in Atlantic cod (Gadus morhua). Developmental and Comparative Immunology, 2019, 98, 166-180.	2.2	33
48	Transcriptomic Profiling in Fins of Atlantic Salmon Parasitized with Sea Lice: Evidence for an Early Imbalance Between Chalimus-Induced Immunomodulation and the Hostâ€™s Defense Response. International Journal of Molecular Sciences, 2020, 21, 2417.	4.2	32
49	Successive Losses of Central Immune Genes Characterize the Gadiformesâ€™ Alternate Immunity. Genome Biology and Evolution, 2016, 8, 3508-3515.	2.6	30
50	Stimulation of growth and changes in the hepatic transcriptome by 17Î²-estradiol in the yellow perch (Perca flavescens). Physiological Genomics, 2009, 38, 261-280.	2.2	29
51	Minimizing marine ingredients in diets of farmed Atlantic salmon (Salmo salar): Effects on growth performance and muscle lipid and fatty acid composition. PLoS ONE, 2018, 13, e0198538.	2.5	28
52	Atlantic cod (Gadus morhua) CC chemokines: Diversity and expression analysis. Developmental and Comparative Immunology, 2010, 34, 904-913.	2.2	27
53	Evaluation of the impact of camelina oil-containing diets on the expression of genes involved in the innate anti-viral immune response in Atlantic cod (Gadus morhua). Fish and Shellfish Immunology, 2014, 41, 52-63.	3.7	26
54	Characterization and expression analyses of anti-apoptotic Bcl-2-like genes NR-13, Mcl-1, Bcl-X1, and Bcl-X2 in Atlantic cod (Gadus morhua). Molecular Immunology, 2010, 47, 763-784.	2.4	25

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55	Transcriptome profiling reveals that feeding wild zooplankton to larval Atlantic cod (Gadus morhua) influences suites of genes involved in oxidation-reduction, mitosis, and selenium homeostasis. BMC Genomics, 2015, 16, 1016.	2.9	25
56	An improved version of theÂAtlantic cod genome andÂadvancements in functionalÂgenomics: implicationsÂforÂthe future of cod farming. , 2016, , 45-72.		25
57	Transcriptomic Profiling of the Adaptive and Innate Immune Responses of Atlantic Salmon to Renibacterium salmoninarum Infection. Frontiers in Immunology, 2020, 11, 567838.	4.8	23
58	Deciphering the messages carried by extracellular vesicles in hematological malignancies. Blood Reviews, 2021, 46, 100734.	6.1	23
59	Variation in embryonic mortality and maternal transcript expression among Atlantic cod (Gadus) Tj ETQq1 1 0.784314 rgBT /Overlock	1.1	22
60	Functional Genomic Analysis of the Impact of Camelina (Camelina sativa) Meal on Atlantic Salmon (Salmo salar) Distal Intestine Gene Expression and Physiology. Marine Biotechnology, 2016, 18, 418-435.	2.3	20
61	Characterization of miRNAs in Cultured Atlantic Salmon Head Kidney Monocyte-Like and Macrophage-Like Cells. International Journal of Molecular Sciences, 2020, 21, 3989.	4.2	20
62	Gene expression and pathologic alterations in juvenile rainbow trout due to chronic dietary TCDD exposure. Aquatic Toxicology, 2013, 140-141, 356-368.	4.0	19
63	Transcriptome Profiling of Atlantic Salmon (Salmo salar) Parr With Higher and Lower Pathogen Loads Following Piscirickettsia salmonis Infection. Frontiers in Immunology, 2021, 12, 789465.	4.8	19
64	Meeting the Challenges of Aquatic Vertebrate Ecotoxicology. BioScience, 2008, 58, 1015-1025.	4.8	18
65	Dynamic expression profiles of virus-responsive and putative antimicrobial peptide-encoding transcripts during Atlantic cod (Gadus morhua) embryonic and early larval development. Gene, 2012, 509, 232-246.	2.3	18
66	Transcriptomic Responses of Atlantic Salmon (Salmo salar) to Environmental Enrichment during Juvenile Rearing. PLoS ONE, 2015, 10, e0118378.	2.5	18
67	Liver Transcriptome Profiling Reveals That Dietary DHA and EPA Levels Influence Suites of Genes Involved in Metabolism, Redox Homeostasis, and Immune Function in Atlantic Salmon (Salmo salar). Marine Biotechnology, 2020, 22, 263-284.	2.3	18
68	Characterization of miRNAs in Extracellular Vesicles Released From Atlantic Salmon Monocyte-Like and Macrophage-Like Cells. Frontiers in Immunology, 2020, 11, 587931.	4.8	17
69	The mRNA expression of cortisol axis related genes differs in Atlantic cod (Gadus morhua) categorized as high or low responders. General and Comparative Endocrinology, 2012, 175, 311-320.	1.7	16
70	Impact of rearing temperature on the innate antiviral immune response of growth hormone transgenic female triploid Atlantic salmon (Salmo salar). Fish and Shellfish Immunology, 2020, 97, 656-668.	3.7	15
71	Schizochytrium sp. (T18) Oil as a Fish Oil Replacement in Diets for Juvenile Rainbow Trout (Oncorhynchus mykiss): Effects on Growth Performance, Tissue Fatty Acid Content, and Lipid-Related Transcript Expression. Animals, 2021, 11, 1185.	2.3	15
72	The Atlantic salmonâ€™s stress- and immune-related transcriptional responses to moderate hypoxia, an incremental temperature increase, and these challenges combined. G3: Genes, Genomes, Genetics, 2021, 11, .	1.9	15

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73	Identification and molecular cloning of Atlantic cod (Gadus morhua) activating transcription factor 3 (ATF3) transcript and its induction in spleen following intraperitoneal polyriboinosinic polyribocytidylic acid injection. Fish and Shellfish Immunology, 2011, 31, 475-481.	3.7	14
74	An investigation of appetite-related peptide transcript expression in Atlantic cod (Gadus morhua) brain following a Camelina sativa meal-supplemented feeding trial. Gene, 2014, 550, 253-263.	2.3	14
75	Sockeye salmon demonstrate robust yet distinct transcriptomic kidney responses to rhabdovirus (IHNV) exposure and infection. Fish and Shellfish Immunology, 2019, 94, 525-538.	3.7	14
76	Gill and Liver Transcript Expression Changes Associated With Gill Damage in Atlantic Salmon (Salmo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	4.8	14
77	Cold-induced changes in stress hormone and steroidogenic transcript levels in cunner (Tautogolabrus adspersus), a fish capable of metabolic depression. General and Comparative Endocrinology, 2015, 224, 126-135.	1.7	13
78	Interaction between Ï‰ 6 and Ï‰ 3 fatty acids of different chain lengths regulates Atlantic salmon hepatic gene expression and muscle fatty acid profiles. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190648.	4.1	12
79	Growth performance and nutrient utilization of growth hormone transgenic female triploid Atlantic salmon (Salmo salar) reared at three temperatures in a land-based freshwater recirculating aquaculture system (RAS). Aquaculture, 2020, 519, 734896.	3.5	11
80	Influence of Dietary Long-Chain Polyunsaturated Fatty Acids and Ï‰6 to Ï‰3 Ratios on Head Kidney Lipid Composition and Expression of Fatty Acid and Eicosanoid Metabolism Genes in Atlantic Salmon (Salmo) Tj ETQq0 0 0 rgBT /Overlock 10	3.6	11
81	Global gene expression responses of Atlantic salmon skin to Moritella viscosa. Scientific Reports, 2022, 12, 4622.	3.4	11
82	Plant-Based Diets Induce Transcriptomic Changes in Muscle of Zebrafish and Atlantic Salmon. Frontiers in Genetics, 2020, 11, 575237.	2.3	10
83	Transcriptome Profiling of Atlantic Salmon Adherent Head Kidney Leukocytes Reveals That Macrophages Are Selectively Enriched During Culture. Frontiers in Immunology, 2021, 12, 709910.	4.8	10
84	Interacting Effects of Sea Louse (Lepeophtheirus salmonis) Infection and Formalin-Killed Aeromonas salmonicida on Atlantic Salmon Skin Transcriptome. Frontiers in Immunology, 2022, 13, 804987.	4.8	10
85	Diet-Induced Physiological Responses in the Liver of Atlantic Salmon (Salmo salar) Inferred Using Multiplex PCR Platforms. Marine Biotechnology, 2020, 22, 511-525.	2.3	9
86	Evaluation of enzyme- and Rhizopus oligosporus -treated high oil residue camelina meal on rainbow trout growth performance and distal intestine histology and inflammatory biomarker gene expression. Aquaculture, 2018, 483, 27-37.	3.5	7
87	Freshwater, Landlocked Grand Lake Strain of Atlantic Salmon (Salmo salar L.) as a Potential Genetic Source of Long Chain Polyunsaturated Fatty Acids Synthesis. Frontiers in Marine Science, 2021, 8, .	2.5	7
88	Impact of origin (wild vs. farmed) and sea lice (Lepeophtheirus salmonis) infestation on expression of immune-relevant genes in Atlantic salmon (Salmo salar L.) skin. Aquaculture, 2019, 499, 306-315.	3.5	6
89	Phenotypic stress response does not influence the upper thermal tolerance of male Atlantic salmon (Salmo salar). Journal of Thermal Biology, 2021, 101, 103102.	2.6	6
90	Reverse Transcription-Quantitative Real-Time Polymerase Chain Reaction (RT-qPCR) for Gene Expression Analyses. Methods in Molecular Biology, 2022, , 319-340.	0.7	6

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91	Characterization of miRNAs in Embryonic, Larval, and Adult Lumpfish Provides a Reference miRNAome for Cyclopterus lumpus. Biology, 2022, 11, 130.	2.9	5
92	RNA-Seq Analysis of the Growth Hormone Transgenic Female Triploid Atlantic Salmon (Salmo salar) Hepatic Transcriptome Reveals Broad Temperature-Mediated Effects on Metabolism and Other Biological Processes. Frontiers in Genetics, 0, 13, .	2.3	5
93	Minimizing marine ingredients in diets of farmed Atlantic salmon (Salmo salar): effects on liver and head kidney lipid class and fatty acid composition. Fish Physiology and Biochemistry, 2020, 46, 2331-2353.	2.2	4
94	RNA-seq analysis of the mantle transcriptome from Mytilus edulis during a seasonal spawning event in deep and shallow water culture sites on the northeast coast of Newfoundland, Canada. Marine Genomics, 2021, 60, 100865.	1.1	4
95	Influence of Varying Dietary Ï‰6 to Ï‰3 Fatty Acid Ratios on the Hepatic Transcriptome, and Association with Phenotypic Traits (Growth, Somatic Indices, and Tissue Lipid Composition), in Atlantic Salmon (Salmo salar). Biology, 2021, 10, 578.	2.9	4
96	Atlantic Salmon (Salmo salar) bacterial and viral innate immune responses are not impaired by florfenicol or tetracycline administration. Fish and Shellfish Immunology, 2022, 123, 298-313.	3.7	4
97	Aquacultureâ€Related Applications of DNA Microarray Technology. , 2009, , 63-101.		3
98	Distinct early life stage gene expression effects of hybridization among European and North American farmed and wild Atlantic salmon populations. Molecular Ecology, 2022, 31, 2712-2729.	3.6	2
99	Genomic Tools for Understanding the Molecular Basis of Productionâ€Relevant Traits in Finfish. , 2011, , 1-19.		1
100	The Application of Genomics, Proteomics, and Metabolomics to Studies of Fish Health. , 2011, , 81-104.		1
101	Corrigendum to â€œImmune modulatory properties of 6-gingerol and resveratrol in Atlantic salmon macrophagesâ€•[Mol. Immunol. 95 (2018) 10â€“19]. Molecular Immunology, 2020, 126, 167.	2.4	1
102	Functional Genomics Research of Atlantic CodGadus morhua. , 2012, , 339-348.		0
103	Evaluation of high oil residue camelina meal (HORM) on Atlantic salmon (Salmo salar) growth performance, carcass composition, intestinal morphology and inflammatory biomarker gene expression. Aquaculture Nutrition, 0, , .	2.7	0