William S Davidson

List of Publications by Year
in descending order

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77 papers	7,952 citations	66343 42 h-index	71685 76 g-index
78 all docs	78 docs citations	78 times ranked	8949 citing authors

#	Article	IF	Citations
1	The Atlantic salmon genome provides insights into rediploidization. Nature, 2016, 533, 200-205.	27.8	1,021
2	Comparative Genomics Identifies a Flagellar and Basal Body Proteome that Includes the BBS5 Human Disease Gene. Cell, 2004, 117, 541-552.	28.9	721
3	Triallelic Inheritance in Bardet-Biedl Syndrome, a Mendelian Recessive Disorder. Science, 2001, 293, 2256-2259.	12.6	599
4	Mutations in a member of the Ras superfamily of small GTP-binding proteins causes Bardet-Biedl syndrome. Nature Genetics, 2004, 36, 989-993.	21.4	313
5	Mutations in MKKS cause obesity, retinal dystrophy and renal malformations associated with Bardet-Biedl syndrome. Nature Genetics, 2000, 26, 67-70.	21.4	311
6	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
7	Sequencing the genome of the Atlantic salmon (Salmo salar). Genome Biology, 2010, 11, 403.	8.8	250
8	Comparative Genome Analysis of the Primary Sex-Determining Locus in Salmonid Fishes. Genome Research, 2003, 13, 272-280.	5.5	228
9	A dense SNP-based linkage map for Atlantic salmon (Salmo salar) reveals extended chromosome homeologies and striking differences in sex-specific recombination patterns. BMC Genomics, 2011, 12, 615.	2.8	226
10	Fish and chips: Various methodologies demonstrate utility of a 16,006-gene salmonid microarray. BMC Genomics, 2005, 6, 126.	2.8	178
11	Genome-Wide Association Study (GWAS) for Growth Rate and Age at Sexual Maturation in Atlantic Salmon (Salmo salar). PLoS ONE, 2015, 10, e0119730.	2.5	177
12	Epithelial Cadherin Determines Resistance to Infectious Pancreatic Necrosis Virus in Atlantic Salmon. Genetics, 2015, 200, 1313-1326.	2.9	170
13	Microarray analyses identify molecular biomarkers of Atlantic salmon macrophage and hematopoietic kidney response toPiscirickettsia salmonisinfection. Physiological Genomics, 2004, 20, 21-35.	2.3	163
14	Salmo salar and Esox lucius full-length cDNA sequences reveal changes in evolutionary pressures on a post-tetraploidization genome. BMC Genomics, 2010, 11, 279.	2.8	163
15	A salmonid EST genomic study: genes, duplications, phylogeny and microarrays. BMC Genomics, 2008, 9, 545.	2.8	145
16	Bursts and horizontal evolution of DNA transposons in the speciation of pseudotetraploid salmonids. BMC Genomics, 2007, 8, 422.	2.8	128
17	Genomic Predictions and Genome-Wide Association Study of Resistance AgainstPiscirickettsia salmonisin Coho Salmon (Oncorhynchus kisutch) Using ddRAD Sequencing. G3: Genes, Genomes, Genetics, 2018, 8, 1183-1194.	1.8	125
18	A comparative analysis of the rainbow trout genome with 2 other species of fish (Arctic charr and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2005, 48, 1037-1051.	2.0	122

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19	Genome-wide association analysis reveals loci associated with resistance against Piscirickettsia salmonis in two Atlantic salmon (Salmo salar L.) chromosomes. BMC Genomics, 2015, 16, 854.	2.8	120
20	A Fifth Locus for Bardet-Biedl Syndrome Maps to Chromosome 2q31. American Journal of Human Genetics, 1999, 64, 900-904.	6.2	117
21	Distribution of ancestral proto-Actinopterygian chromosome arms within the genomes of 4R-derivative salmonid fishes (Rainbow trout and Atlantic salmon). BMC Genomics, 2008, 9, 557.	2.8	107
22	Functional Annotation of All Salmonid Genomes (FAASG): an international initiative supporting future salmonid research, conservation and aquaculture. BMC Genomics, 2017, 18, 484.	2.8	99
23	A physical map of the genome of Atlantic salmon, Salmo salar. Genomics, 2005, 86, 396-404.	2.9	97
24	Assignment of Atlantic salmon (Salmo salar) linkage groups to specific chromosomes: Conservation of large syntenic blocks corresponding to whole chromosome arms in rainbow trout (Oncorhynchus mykiss). BMC Genetics, 2009, 10, 46.	2.7	96
25	A Comprehensive Survey of the Genes Involved in Maturation and Development of the Rainbow Trout Ovary1. Biology of Reproduction, 2005, 72, 687-699.	2.7	95
26	Genome wide association study for resistance to Caligus rogercresseyi in Atlantic salmon (Salmo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.5	95
27	The Arctic charr (Salvelinus alpinus) genome and transcriptome assembly. PLoS ONE, 2018, 13, e0204076.	2.5	83
28	Identification of genes associated with heat tolerance in Arctic charr exposed to acute thermal stress. Physiological Genomics, 2011, 43, 685-696.	2.3	82
29	A highly redundant BAC library of Atlantic salmon (Salmo salar): an important tool for salmon projects. BMC Genomics, 2005, 6, 50.	2.8	79
30	Evolution of duplicated IgH loci in Atlantic salmon, Salmo salar. BMC Genomics, 2010, 11, 486.	2.8	75
31	Assessing the feasibility of GS FLX Pyrosequencing for sequencing the Atlantic salmon genome. BMC Genomics, 2008, 9, 404.	2.8	72
32	Chromosomal differences between European and North American Atlantic salmon discovered by linkage mapping and supported by fluorescence in situ hybridization analysis. BMC Genomics, 2012, 13, 432.	2.8	70
33	Detection of Quantitative Trait Loci (QTL) Related to Grilsing and Late Sexual Maturation in Atlantic Salmon (Salmo salar). Marine Biotechnology, 2014, 16, 103-110.	2.4	68
34	Incident Renal Events and Risk Factors in Autosomal Dominant Polycystic Kidney Disease: A Population and Family-Based Cohort Followed for 22 Years. Clinical Journal of the American Society of Nephrology: CJASN, 2006, 1, 710-717.	4.5	67
35	Genetic Heterogeneity of Bardetâ€“Biedl Syndrome in a Distinct Canadian Population: Evidence for a Fifth Locus. Genomics, 1999, 55, 2-9.	2.9	63
36	Genomic organization of duplicated major histocompatibility complex class I regions in Atlantic salmon (Salmo salar). BMC Genomics, 2007, 8, 251.	2.8	60

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37	Genetic mapping of quantitative trait loci (QTL) for body-weight in Atlantic salmon (Salmo salar) using a 6.5 K SNP array. Aquaculture, 2012, 358-359, 61-70.	3.5	59
38	Striking antigen recognition diversity in the Atlantic salmon T-cell receptor Î±/Î´ locus. Developmental and Comparative Immunology, 2008, 32, 204-212.	2.3	53
39	Genomic Instability of the Sex-Determining Locus in Atlantic Salmon (Salmo salar). G3: Genes, Genomes, Genetics, 2015, 5, 2513-2522.	1.8	52
40	Comparative Genomics Identifies Candidate Genes for Infectious Salmon Anemia (ISA) Resistance in Atlantic Salmon (Salmo salar). Marine Biotechnology, 2011, 13, 232-241.	2.4	50
41	Canadian Bardet-Biedl syndrome family reduces the critical region of BBS3 (3p) and presents with a variable phenotype. American Journal of Medical Genetics Part A, 1998, 78, 461-467.	2.4	49
42	Gene Duplication and Divergence of Long Wavelength-Sensitive Opsin Genes in the Guppy, Poecilia reticulata. Journal of Molecular Evolution, 2011, 72, 240-252.	1.8	47
43	Functional adaptive diversity of the Atlantic salmon T-cell receptor gamma locus. Molecular Immunology, 2008, 45, 2150-2157.	2.2	46
44	A Founder Effect in the Newfoundland Population Reduces the Bardet-Biedl Syndrome I (BBS1) Interval to 1 cM. American Journal of Human Genetics, 1999, 65, 1680-1687.	6.2	45
45	Ribosomal genes and heat shock proteins as putative markers for chronic, sublethal heat stress in Arctic charr: applications for aquaculture and wild fish. Physiological Genomics, 2011, 43, 1056-1064.	2.3	41
46	Whole Genome Linkage Disequilibrium and Effective Population Size in a Coho Salmon (Oncorhynchus) Tj ETQq0 0 0 rgBT /Overlock 10	2.3	41
47	Clinical and genetic epidemiology of inherited renal disease in Newfoundland. Kidney International, 2002, 61, 1925-1934.	5.2	34
48	Genomic organization of duplicated short wave-sensitive and long wave-sensitive opsin genes in the green swordtail, Xiphophorus helleri. BMC Evolutionary Biology, 2010, 10, 87.	3.2	32
49	Characterisation of Fast, Slow and Cardiac Muscle Tropomyosins from Salmonid Fish. FEBS Journal, 1995, 232, 226-234.	0.2	31
50	Expression of morphogenic genes in mature ovarian and testicular tissues: Potential stem-cell niche markers and patterning factors. Molecular Reproduction and Development, 2006, 73, 142-152.	2.0	31
51	Smelt was the likely beneficiary of an antifreeze gene laterally transferred between fishes. BMC Evolutionary Biology, 2012, 12, 190.	3.2	30
52	Palmitate-binding, serum albumin-like proteins in salmonids. FEBS Letters, 1988, 233, 299-302.	2.8	28
53	Regulation and expression of sexual differentiation factors in embryonic and extragonadal tissues of Atlantic salmon. BMC Genomics, 2011, 12, 31.	2.8	28
54	Genomic Organization and Evolution of the Trace Amine-Associated Receptor (TAAR) Repertoire in Atlantic Salmon (Salmo salar). G3: Genes, Genomes, Genetics, 2014, 4, 1135-1141.	1.8	28

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55	Isolation, characterization and comparison of Atlantic and Chinook salmon growth hormone 1 and 2. BMC Genomics, 2008, 9, 522.	2.8	27
56	Comparative genomic analysis of Atlantic salmon, Salmo salar, from Europe and North America. BMC Genetics, 2010, 11, 105.	2.7	26
57	Genomic Organization and Evolution of the Vomeronasal Type 2 Receptor-Like (OlfC) Gene Clusters in Atlantic Salmon, Salmo salar. Molecular Biology and Evolution, 2009, 26, 1117-1125.	8.9	25
58	Genomic organization and evolution of the Atlantic salmon hemoglobin repertoire. BMC Genomics, 2010, 11, 539.	2.8	25
59	Type I microsatellite markers from Atlantic salmon (Salmo salar) expressed sequence tags. Molecular Ecology Notes, 2005, 5, 762-766.	1.7	24
60	Genomic organization and characterization of two vomeronasal 1 receptor-like genes (ora1 and ora2) in Atlantic salmon Salmo salar. Marine Genomics, 2008, 1, 23-31.	1.1	22
61	Regulation, expression and characterization of aromatase (cyp19b1) transcripts in ovary and testis of rainbow trout (Oncorhynchus mykiss). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2010, 155, 118-125.	1.6	22
62	Design and characterization of an 87k SNP genotyping array for Arctic charr (Salvelinus alpinus). PLoS ONE, 2019, 14, e0215008.	2.5	22
63	Sex-specific expression, synthesis and localization of aromatase regulators in one-year-old Atlantic salmon ovaries and testes. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2013, 164, 236-246.	1.6	21
64	Expression analysis of sex-determining pathway genes during development in male and female Atlantic salmon (Salmo salar). Physiological Genomics, 2015, 47, 581-587.	2.3	16
65	Autopolyploidy genome duplication preserves other ancient genome duplications in Atlantic salmon (Salmo salar). PLoS ONE, 2017, 12, e0173053.	2.5	16
66	TEAD3, implicated by association to grilsing in Atlantic salmon. Aquaculture, 2017, 479, 571-578.	3.5	15
67	Autosomal recessive Bardetâ€“Biedl syndrome: first-degree relatives have no predisposition to metabolic and renal disorders. Kidney International, 2009, 76, 215-223.	5.2	14
68	Genomic organization of Atlantic salmon (Salmo salar) fatty acid binding protein (fabp2) genes reveals independent loss of duplicate loci in teleosts. Marine Genomics, 2009, 2, 193-200.	1.1	13
69	Functional Divergence in Teleost Cardiac Troponin Paralogs Guides Variation in the Interaction of TnI Switch Region with TnC. Genome Biology and Evolution, 2016, 8, 994-1011.	2.5	13
70	Genomic organisation analysis of novel immunoglobulin-like transcripts in Atlantic salmon (Salmo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.8	11
71	Characterization of the Atlantic salmon (Salmo salar) brain-type fatty acid binding protein (fabp7) genes reveals the fates of teleost fabp7 genes following whole genome duplications. Gene, 2012, 504, 253-261.	2.2	11
72	Characterization of Novel Minisatellite Repeat Loci in Atlantic Salmon (Salmo salar) and Their Phylogenetic Distribution. Journal of Molecular Evolution, 1998, 46, 245-255.	1.8	9

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73	Sex-specific expression and localization of aromatase and its regulators during embryonic and larval development of Atlantic salmon. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2014, 168, 33-44.	1.6	8
74	Subcellular localization and characterization of estrogenic pathway regulators and mediators in Atlantic salmon spermatozoal cells. Histochemistry and Cell Biology, 2018, 149, 75-96.	1.7	7
75	Understanding salmonid biology from the Atlantic salmon genome. Genome, 2013, 56, 548-550.	2.0	5
76	Linkage disequilibrium mapping in the Newfoundland population: a re-evaluation of the refinement of the Bardet?Biedl syndrome 1 critical interval. Human Genetics, 2005, 116, 62-71.	3.8	3
77	Regulatory processes that control haploid expression of salmon sperm mRNAs. BMC Research Notes, 2018, 11, 639.	1.4	1