

# William S Davidson

## List of Publications by Year in descending order

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77  
papers

7,952  
citations

66234

42  
h-index

74018

75  
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. <i>Nature</i> , 2016, 533, 200-205.	13.7	1,021
2	Comparative Genomics Identifies a Flagellar and Basal Body Proteome that Includes the BBS5 Human Disease Gene. <i>Cell</i> , 2004, 117, 541-552.	13.5	721
3	Triallelic Inheritance in Bardet-Biedl Syndrome, a Mendelian Recessive Disorder. <i>Science</i> , 2001, 293, 2256-2259.	6.0	599
4	Mutations in a member of the Ras superfamily of small GTP-binding proteins causes Bardet-Biedl syndrome. <i>Nature Genetics</i> , 2004, 36, 989-993.	9.4	313
5	Mutations in MKKS cause obesity, retinal dystrophy and renal malformations associated with Bardet-Biedl syndrome. <i>Nature Genetics</i> , 2000, 26, 67-70.	9.4	311
6	Development and Application of a Salmonid EST Database and cDNA Microarray: Data Mining and Interspecific Hybridization Characteristics. <i>Genome Research</i> , 2004, 14, 478-490.	2.4	279
7	Sequencing the genome of the Atlantic salmon ( <i>Salmo salar</i> ). <i>Genome Biology</i> , 2010, 11, 403.	3.8	250
8	Comparative Genome Analysis of the Primary Sex-Determining Locus in Salmonid Fishes. <i>Genome Research</i> , 2003, 13, 272-280.	2.4	228
9	A dense SNP-based linkage map for Atlantic salmon ( <i>Salmo salar</i> ) reveals extended chromosome homeologies and striking differences in sex-specific recombination patterns. <i>BMC Genomics</i> , 2011, 12, 615.	1.2	226
10	Fish and chips: Various methodologies demonstrate utility of a 16,006-gene salmonid microarray. <i>BMC Genomics</i> , 2005, 6, 126.	1.2	178
11	Genome-Wide Association Study (GWAS) for Growth Rate and Age at Sexual Maturation in Atlantic Salmon ( <i>Salmo salar</i> ). <i>PLoS ONE</i> , 2015, 10, e0119730.	1.1	177
12	Epithelial Cadherin Determines Resistance to Infectious Pancreatic Necrosis Virus in Atlantic Salmon. <i>Genetics</i> , 2015, 200, 1313-1326.	1.2	170
13	Microarray analyses identify molecular biomarkers of Atlantic salmon macrophage and hematopoietic kidney response to <i>Piscirickettsia salmonis</i> infection. <i>Physiological Genomics</i> , 2004, 20, 21-35.	1.0	163
14	<i>Salmo salar</i> and <i>Esox lucius</i> full-length cDNA sequences reveal changes in evolutionary pressures on a post-tetraploidization genome. <i>BMC Genomics</i> , 2010, 11, 279.	1.2	163
15	A salmonid EST genomic study: genes, duplications, phylogeny and microarrays. <i>BMC Genomics</i> , 2008, 9, 545.	1.2	145
16	Bursts and horizontal evolution of DNA transposons in the speciation of pseudotetraploid salmonids. <i>BMC Genomics</i> , 2007, 8, 422.	1.2	128
17	Genomic Predictions and Genome-Wide Association Study of Resistance Against <i>Piscirickettsia salmonis</i> in Coho Salmon ( <i>Oncorhynchus kisutch</i> ) Using ddRAD Sequencing. <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 1183-1194.	0.8	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.	0.9	122

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19	Genome-wide association analysis reveals loci associated with resistance against <i>Piscirickettsia salmonis</i> in two Atlantic salmon ( <i>Salmo salar</i> L.) chromosomes. <i>BMC Genomics</i> , 2015, 16, 854.	1.2	120
20	A Fifth Locus for Bardet-Biedl Syndrome Maps to Chromosome 2q31. <i>American Journal of Human Genetics</i> , 1999, 64, 900-904.	2.6	117
21	Distribution of ancestral proto-Actinopterygian chromosome arms within the genomes of 4R-derivative salmonid fishes (Rainbow trout and Atlantic salmon). <i>BMC Genomics</i> , 2008, 9, 557.	1.2	107
22	Functional Annotation of All Salmonid Genomes (FAASG): an international initiative supporting future salmonid research, conservation and aquaculture. <i>BMC Genomics</i> , 2017, 18, 484.	1.2	99
23	A physical map of the genome of Atlantic salmon, <i>Salmo salar</i> . <i>Genomics</i> , 2005, 86, 396-404.	1.3	97
24	Assignment of Atlantic salmon ( <i>Salmo salar</i> ) linkage groups to specific chromosomes: Conservation of large syntenic blocks corresponding to whole chromosome arms in rainbow trout ( <i>Oncorhynchus mykiss</i> ). <i>BMC Genetics</i> , 2009, 10, 46.	2.7	96
25	A Comprehensive Survey of the Genes Involved in Maturation and Development of the Rainbow Trout Ovary I. <i>Biology of Reproduction</i> , 2005, 72, 687-699.	1.2	95
26	Genome wide association study for resistance to <i>Caligus rogercresseyi</i> in Atlantic salmon ( <i>Salmo</i> ) Tj ETQq0 0 0 rgBT JOverlock_10 Tf 50	1.7	95
27	The Arctic charr ( <i>Salvelinus alpinus</i> ) genome and transcriptome assembly. <i>PLoS ONE</i> , 2018, 13, e0204076.	1.1	83
28	Identification of genes associated with heat tolerance in Arctic charr exposed to acute thermal stress. <i>Physiological Genomics</i> , 2011, 43, 685-696.	1.0	82
29	A highly redundant BAC library of Atlantic salmon ( <i>Salmo salar</i> ): an important tool for salmon projects. <i>BMC Genomics</i> , 2005, 6, 50.	1.2	79
30	Evolution of duplicated IgH loci in Atlantic salmon, <i>Salmo salar</i> . <i>BMC Genomics</i> , 2010, 11, 486.	1.2	75
31	Assessing the feasibility of GS FLX Pyrosequencing for sequencing the Atlantic salmon genome. <i>BMC Genomics</i> , 2008, 9, 404.	1.2	72
32	Chromosomal differences between European and North American Atlantic salmon discovered by linkage mapping and supported by fluorescence in situ hybridization analysis. <i>BMC Genomics</i> , 2012, 13, 432.	1.2	70
33	Detection of Quantitative Trait Loci (QTL) Related to Grilising and Late Sexual Maturation in Atlantic Salmon ( <i>Salmo salar</i> ). <i>Marine Biotechnology</i> , 2014, 16, 103-110.	1.1	68
34	Incident Renal Events and Risk Factors in Autosomal Dominant Polycystic Kidney Disease: A Population and Family-Based Cohort Followed for 22 Years. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2006, 1, 710-717.	2.2	67
35	Genetic Heterogeneity of Bardet-Biedl Syndrome in a Distinct Canadian Population: Evidence for a Fifth Locus. <i>Genomics</i> , 1999, 55, 2-9.	1.3	63
36	Genomic organization of duplicated major histocompatibility complex class I regions in Atlantic salmon ( <i>Salmo salar</i> ). <i>BMC Genomics</i> , 2007, 8, 251.	1.2	60

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37	Genetic mapping of quantitative trait loci (QTL) for body-weight in Atlantic salmon ( <i>Salmo salar</i> ) using a 6.5 K SNP array. <i>Aquaculture</i> , 2012, 358-359, 61-70.	1.7	59
38	Striking antigen recognition diversity in the Atlantic salmon T-cell receptor $\hat{\alpha}/\hat{\gamma}$ locus. <i>Developmental and Comparative Immunology</i> , 2008, 32, 204-212.	1.0	53
39	Genomic Instability of the Sex-Determining Locus in Atlantic Salmon ( <i>Salmo salar</i> ). <i>G3: Genes, Genomes, Genetics</i> , 2015, 5, 2513-2522.	0.8	52
40	Comparative Genomics Identifies Candidate Genes for Infectious Salmon Anemia (ISA) Resistance in Atlantic Salmon ( <i>Salmo salar</i> ). <i>Marine Biotechnology</i> , 2011, 13, 232-241.	1.1	50
41	Canadian Bardet-Biedl syndrome family reduces the critical region of BBS3 (3p) and presents with a variable phenotype. , 1998, 78, 461-467.		49
42	Gene Duplication and Divergence of Long Wavelength-Sensitive Opsin Genes in the Guppy, <i>Poecilia reticulata</i> . <i>Journal of Molecular Evolution</i> , 2011, 72, 240-252.	0.8	47
43	Functional adaptive diversity of the Atlantic salmon T-cell receptor gamma locus. <i>Molecular Immunology</i> , 2008, 45, 2150-2157.	1.0	46
44	A Founder Effect in the Newfoundland Population Reduces the Bardet-Biedl Syndrome I (BBS1) Interval to 1 cM. <i>American Journal of Human Genetics</i> , 1999, 65, 1680-1687.	2.6	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. <i>Physiological Genomics</i> , 2011, 43, 1056-1064.	1.0	41
46	Whole Genome Linkage Disequilibrium and Effective Population Size in a Coho Salmon ( <i>Oncorhynchus tshawytscha</i> ) Overlock 10	1.1	41
47	Clinical and genetic epidemiology of inherited renal disease in Newfoundland. <i>Kidney International</i> , 2002, 61, 1925-1934.	2.6	34
48	Genomic organization of duplicated short wave-sensitive and long wave-sensitive opsin genes in the green swordtail, <i>Xiphophorus helleri</i> . <i>BMC Evolutionary Biology</i> , 2010, 10, 87.	3.2	32
49	Characterisation of Fast, Slow and Cardiac Muscle Tropomyosins from Salmonid Fish. <i>FEBS Journal</i> , 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. <i>Molecular Reproduction and Development</i> , 2006, 73, 142-152.	1.0	31
51	Smelt was the likely beneficiary of an antifreeze gene laterally transferred between fishes. <i>BMC Evolutionary Biology</i> , 2012, 12, 190.	3.2	30
52	Palmitate-binding, serum albumin-like proteins in salmonids. <i>FEBS Letters</i> , 1988, 233, 299-302.	1.3	28
53	Regulation and expression of sexual differentiation factors in embryonic and extragonadal tissues of Atlantic salmon. <i>BMC Genomics</i> , 2011, 12, 31.	1.2	28
54	Genomic Organization and Evolution of the Trace Amine-Associated Receptor (TAAR) Repertoire in Atlantic Salmon ( <i>Salmo salar</i> ). <i>G3: Genes, Genomes, Genetics</i> , 2014, 4, 1135-1141.	0.8	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.	1.2	27
56	Comparative genomic analysis of Atlantic salmon, <i>Salmo salar</i> , 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, <i>Salmo salar</i> . Molecular Biology and Evolution, 2009, 26, 1117-1125.	3.5	25
58	Genomic organization and evolution of the Atlantic salmon hemoglobin repertoire. BMC Genomics, 2010, 11, 539.	1.2	25
59	Type I microsatellite markers from Atlantic salmon ( <i>Salmo salar</i> ) 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 <i>Salmo salar</i> . Marine Genomics, 2008, 1, 23-31.	0.4	22
61	Regulation, expression and characterization of aromatase ( <i>cyp19b1</i> ) transcripts in ovary and testis of rainbow trout ( <i>Oncorhynchus mykiss</i> ). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2010, 155, 118-125.	0.7	22
62	Design and characterization of an 87k SNP genotyping array for Arctic charr ( <i>Salvelinus alpinus</i> ). PLoS ONE, 2019, 14, e0215008.	1.1	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.	0.7	21
64	Expression analysis of sex-determining pathway genes during development in male and female Atlantic salmon ( <i>Salmo salar</i> ). Physiological Genomics, 2015, 47, 581-587.	1.0	16
65	Autopolyploidy genome duplication preserves other ancient genome duplications in Atlantic salmon ( <i>Salmo salar</i> ). PLoS ONE, 2017, 12, e0173053.	1.1	16
66	TEAD3, implicated by association to grilising in Atlantic salmon. Aquaculture, 2017, 479, 571-578.	1.7	15
67	Autosomal recessive Bardet-Biedl syndrome: first-degree relatives have no predisposition to metabolic and renal disorders. Kidney International, 2009, 76, 215-223.	2.6	14
68	Genomic organization of Atlantic salmon ( <i>Salmo salar</i> ) fatty acid binding protein ( <i>fabp2</i> ) genes reveals independent loss of duplicate loci in teleosts. Marine Genomics, 2009, 2, 193-200.	0.4	13
69	Functional Divergence in Teleost Cardiac Troponin Paralogs Guides Variation in the Interaction of Tnl Switch Region with TnC. Genome Biology and Evolution, 2016, 8, 994-1011.	1.1	13
70	Genomic organisation analysis of novel immunoglobulin-like transcripts in Atlantic salmon ( <i>Salmo</i> ) Tj ETQq0 0 0 rgBT, /Overlock 10 Tf 50	1.2	11
71	Characterization of the Atlantic salmon ( <i>Salmo salar</i> ) brain-type fatty acid binding protein ( <i>fabp7</i> ) genes reveals the fates of teleost <i>fabp7</i> genes following whole genome duplications. Gene, 2012, 504, 253-261.	1.0	11
72	Characterization of Novel Minisatellite Repeat Loci in Atlantic Salmon ( <i>Salmo salar</i> ) and Their Phylogenetic Distribution. Journal of Molecular Evolution, 1998, 46, 245-255.	0.8	9

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73	Sex-specific expression and localization of aromatase and its regulators during embryonic and larval development of Atlantic salmon. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2014, 168, 33-44.	0.7	8
74	Subcellular localization and characterization of estrogenic pathway regulators and mediators in Atlantic salmon spermatozoal cells. <i>Histochemistry and Cell Biology</i> , 2018, 149, 75-96.	0.8	7
75	Understanding salmonid biology from the Atlantic salmon genome. <i>Genome</i> , 2013, 56, 548-550.	0.9	5
76	Linkage disequilibrium mapping in the Newfoundland population: a re-evaluation of the refinement of the Bardet?Biedl syndrome 1 critical interval. <i>Human Genetics</i> , 2005, 116, 62-71.	1.8	3
77	Regulatory processes that control haploid expression of salmon sperm mRNAs. <i>BMC Research Notes</i> , 2018, 11, 639.	0.6	1