Ben F Koop

List of Publications by Year in Descending Order

246 papers	14,194 citations	59 h-index	111 g-index
270 ext. papers	15,999 ext. citations	6.1 avg, IF	5.82 L-index

#	Paper	IF	Citations
246	The Genomic Consistency of the Loss of Anadromy in an Arctic Fish ().. *American Naturalist*, **2022**, 199, 617-635	3.7	0
245	Comparative regulomics supports pervasive selection on gene dosage following whole genome duplication. *Genome Biology*, **2021**, 22, 103	18.3	8
244	Detection of selection signatures in farmed coho salmon (Oncorhynchus kisutch) using dense genome-wide information. *Scientific Reports*, **2021**, 11, 9685	4.9	3
243	Convergent geographic patterns between grizzly bear population genetic structure and Indigenous language groups in coastal British Columbia, Canada. *Ecology and Society*, **2021**, 26,	4.1	5
242	Genomic evidence of past and future climate-linked loss in a migratory Arctic fish. *Nature Climate Change*, **2021**, 11, 158-165	21.4	10
241	The rise and fall of the ancient northern pike master sex-determining gene. *ELife*, **2021**, 10,	8.9	7
240	Assessing the effects of genotype-by-environment interaction on epigenetic, transcriptomic, and phenotypic response in a Pacific salmon. *G3: Genes, Genomes, Genetics*, **2021**, 11,	3.2	3
239	Environmental and genetic influences on fitness-related traits in a hatchery coho salmon population. *Canadian Journal of Fisheries and Aquatic Sciences*, **2021**, 78, 852-868	2.4	0
238	Genomic basis of deep-water adaptation in Arctic Charr (Salvelinus alpinus) morphs. *Molecular Ecology*, **2021**, 30, 4415-4432	5.7	5
237	The salmon louse genome: Copepod features and parasitic adaptations. *Genomics*, **2021**, 113, 3666-3680	4.3	5
236	Sexually Dimorphic Growth Stimulation in a Strain of Growth Hormone Transgenic Coho Salmon (Oncorhynchus kisutch). *Marine Biotechnology*, **2021**, 23, 140-148	3.4	3
235	The pink salmon genome: Uncovering the genomic consequences of a two-year life cycle.. *PLoS ONE* , **2021**, 16, e0255752	3.7	3
234	Estimates of Autozygosity Through Runs of Homozygosity in Farmed Coho Salmon. *Genes*, **2020**, 11,	4.2	4
233	Resolving fine-scale population structure and fishery exploitation using sequenced microsatellites in a northern fish. *Evolutionary Applications*, **2020**, 13, 1055-1068	4.8	24
232	The sockeye salmon genome, transcriptome, and analyses identifying population defining regions of the genome. *PLoS ONE*, **2020**, 15, e0240935	3.7	9
231	Limited genetic parallelism underlies recent, repeated incipient speciation in geographically proximate populations of an Arctic fish (Salvelinus alpinus). *Molecular Ecology*, **2020**, 29, 4280-4294	5.7	9
230	Demographic history shaped geographical patterns of deleterious mutation load in a broadly distributed Pacific Salmon. *PLoS Genetics*, **2020**, 16, e1008348	6	14

229	Microbial communities associated with the parasitic copepod Lepeophtheirus salmonis. *Marine Genomics*, **2020**, 49, 100688	1.9	4
228	Parallelism in eco-morphology and gene expression despite variable evolutionary and genomic backgrounds in a Holarctic fish. *PLoS Genetics*, **2020**, 16, e1008658	6	31
227	A genetic linkage map for the salmon louse (Lepeophtheirus salmonis): evidence for high male:female and inter-familial recombination rate differences. *Molecular Genetics and Genomics*, **2019**, 294, 343-363	3.1	3
226	Whole Genome Linkage Disequilibrium and Effective Population Size in a Coho Salmon () Breeding Population Using a High-Density SNP Array. *Frontiers in Genetics*, **2019**, 10, 498	4.5	23
225	Design and characterization of an 87k SNP genotyping array for Arctic charr (Salvelinus alpinus). *PLoS ONE*, **2019**, 14, e0215008	3.7	16
224	Effect of triploidy on liver gene expression in coho salmon (Oncorhynchus kisutch) under different metabolic states. *BMC Genomics*, **2019**, 20, 336	4.5	3
223	Carotenoid pigmentation in salmon: variation in expression at locus controls a key fitness trait affecting red coloration. *Proceedings of the Royal Society B: Biological Sciences*, **2019**, 286, 20191588	4.4	13
222	Standardized IMGT Nomenclature of Salmonidae IGH Genes, the Paradigm of Atlantic Salmon and Rainbow Trout: From Genomics to Repertoires. *Frontiers in Immunology*, **2019**, 10, 2541	8.4	15
221	Sex-dependent dominance maintains migration supergene in rainbow trout. *Nature Ecology and Evolution*, **2019**, 3, 1731-1742	12.3	91
220	Avermectin treatment for Lepeophtheirus salmonis: Impacts on host (Salmo salar) and parasite immunophysiology. *Aquaculture*, **2019**, 501, 488-501	4.4	8
219	High level efficacy of lufenuron against sea lice (Lepeophtheirus salmonis) linked to rapid impact on moulting processes. *International Journal for Parasitology: Drugs and Drug Resistance*, **2018**, 8, 174-188	4	14
218	A 200K SNP chip reveals a novel Pacific salmon louse genotype linked to differential efficacy of emamectin benzoate. *Marine Genomics*, **2018**, 40, 45-57	1.9	13
217	Subcellular localization and characterization of estrogenic pathway regulators and mediators in Atlantic salmon spermatozoal cells. *Histochemistry and Cell Biology*, **2018**, 149, 75-96	2.4	4
216	Caligus rogercresseyi acetylcholinesterase types and variants: a potential marker for organophosphate resistance. *Parasites and Vectors*, **2018**, 11, 570	4	6
215	Regulatory processes that control haploid expression of salmon sperm mRNAs. *BMC Research Notes*, **2018**, 11, 639	2.3	
214	The Arctic charr (Salvelinus alpinus) genome and transcriptome assembly. *PLoS ONE*, **2018**, 13, e0204076	3.7	45
213	Chinook salmon (Oncorhynchus tshawytscha) genome and transcriptome. *PLoS ONE*, **2018**, 13, e0195461	3.7	57
212	Effects of the vertically transmitted microsporidian Facilispora margolisi and the parasiticide emamectin benzoate on salmon lice (Lepeophtheirus salmonis). *BMC Genomics*, **2017**, 18, 630	4.5	6

211	Parallel epigenetic modifications induced by hatchery rearing in a Pacific salmon. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 12964-12969	11.5	107
210	Enhanced transcriptomic responses in the Pacific salmon louse Lepeophtheirus salmonis oncorhynchi to the non-native Atlantic Salmon Salmo salar suggests increased parasite fitness. *BMC Genomics*, **2017**, 18, 110	4.5	12
209	Host□parasite transcriptomics during immunostimulant-enhanced rejection of salmon lice (Lepeophtheirus salmonis) by Atlantic salmon (Salmo salar). *Facets*, **2017**, 2, 477-495	2.3	9
208	A PCR assay detects a male-specific duplicated copy of Anti-M□llerian hormone (amh) in the lingcod (Ophiodon elongatus). *BMC Research Notes*, **2016**, 9, 230	2.3	16
207	Multi-tissue transcriptome profiles for coho salmon (Oncorhynchus kisutch), a species undergoing rediploidization following whole-genome duplication. *Marine Genomics*, **2016**, 25, 33-37	1.9	18
206	Sex-biased gene expression and sequence conservation in Atlantic and Pacific salmon lice (Lepeophtheirus salmonis). *BMC Genomics*, **2016**, 17, 483	4.5	20
205	The Atlantic salmon genome provides insights into rediploidization. *Nature*, **2016**, 533, 200-5	50.4	606
204	Cypermethrin exposure induces metabolic and stress-related gene expression in copepodid salmon lice (Lepeophtheirus salmonis). *Comparative Biochemistry and Physiology Part D: Genomics and Proteomics*, **2016**, 20, 74-84	2	12
203	A comprehensive analysis of teleost MHC class I sequences. *BMC Evolutionary Biology*, **2015**, 15, 32	3	58
202	Transcriptomic responses to emamectin benzoate in Pacific and Atlantic Canada salmon lice Lepeophtheirus salmonis with differing levels of drug resistance. *Evolutionary Applications*, **2015**, 8, 133-48	4.8	28
201	Infectious hematopoietic necrosis virus (IHNV) persistence in Sockeye Salmon: influence on brain transcriptome and subsequent response to the viral mimic poly(I:C). *BMC Genomics*, **2015**, 16, 634	4.5	22
200	Differential modulation of resistance biomarkers in skin of juvenile and mature pink salmon, Oncorhynchus gorbuscha by the salmon louse, Lepeophtheirus salmonis. *Fish and Shellfish Immunology*, **2015**, 47, 7-14	4.3	9
199	Chemokine receptors in Atlantic salmon. *Developmental and Comparative Immunology*, **2015**, 49, 79-95	3.2	26
198	Signatures of resistance to Lepeophtheirus salmonis include a TH2-type response at the louse-salmon interface. *Developmental and Comparative Immunology*, **2015**, 48, 178-91	3.2	53
197	Transcriptional responses in a Drosophila defensive symbiosis. *Molecular Ecology*, **2014**, 23, 1558-70	5.7	37
196	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	2.3	6
195	The genome and linkage map of the northern pike (Esox lucius): conserved synteny revealed between the salmonid sister group and the Neoteleostei. *PLoS ONE*, **2014**, 9, e102089	3.7	91
194	Comparison of Host Selection and Gene Expression of Adult Lepeophtheirus Salmonis and Salmo Salar During a Cohabitation of Initially Infected and Uninfected Fish. *Journal of Aquaculture Research & Development*, **2014**, 03,	1	3

193	Comparative transcriptomics of Atlantic Salmo salar, chum Oncorhynchus keta and pink salmon O. gorbuscha during infections with salmon lice Lepeophtheirus salmonis. *BMC Genomics*, **2014**, 15, 200	4.5	69
192	Atlantic salmon possesses two clusters of type I interferon receptor genes on different chromosomes, which allows for a larger repertoire of interferon receptors than in zebrafish and mammals. *Developmental and Comparative Immunology*, **2014**, 47, 275-86	3.2	35
191	Divergent immunity and energetic programs in the gills of migratory and resident Oncorhynchus mykiss. *Molecular Ecology*, **2014**, 23, 1952-64	5.7	25
190	Microsatellite loci for genetic analysis of the arctic gadids Boreogadus saida and Arctogadus glacialis. *Conservation Genetics Resources*, **2013**, 5, 445-448	0.8	9
189	Genomics of sablefish (Anoplopoma fimbria): expressed genes, mitochondrial phylogeny, linkage map and identification of a putative sex gene. *BMC Genomics*, **2013**, 14, 452	4.5	82
188	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, 236-46	2.3	18
187	Comprehensive analysis of MHC class II genes in teleost fish genomes reveals dispensability of the peptide-loading DM system in a large part of vertebrates. *BMC Evolutionary Biology*, **2013**, 13, 260	3	57
186	Early response of gene expression in the distal intestine of Atlantic salmon (Salmo salar L.) during the development of soybean meal induced enteritis. *Fish and Shellfish Immunology*, **2013**, 34, 599-609	4.3	121
185	How does sequence variability affect de novo assembly quality?. *Journal of Natural History*, **2013**, 47, 901-910	0.5	4
184	Identification of olfactory receptor genes in Atlantic salmon Salmo salar. *Journal of Fish Biology*, **2012**, 81, 559-75	1.9	28
183	Genomic resources for sea lice: analysis of ESTs and mitochondrial genomes. *Marine Biotechnology*, **2012**, 14, 155-66	3.4	35
182	Comparative defense-associated responses in salmon skin elicited by the ectoparasite Lepeophtheirus salmonis. *Comparative Biochemistry and Physiology Part D: Genomics and Proteomics* , **2012**, 7, 100-9	2	34
181	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, 253-61	3.8	11
180	Transcriptomics of coping strategies in free-swimming Lepeophtheirus salmonis (Copepoda) larvae responding to abiotic stress. *Molecular Ecology*, **2012**, 21, 6000-14	5.7	28
179	Identification of surrogates of protection against yersiniosis in immersion vaccinated Atlantic salmon. *PLoS ONE*, **2012**, 7, e40841	3.7	28
178	A transcriptomic scan for positively selected genes in two closely related marine fishes: Sebastes caurinus and S. rastrelliger. *Marine Genomics*, **2011**, 4, 93-8	1.9	10
177	Ecological transcriptomics of lake-type and riverine sockeye salmon (Oncorhynchus nerka). *BMC Ecology*, **2011**, 11, 31	2.7	12
176	GO Trimming: Systematically reducing redundancy in large Gene Ontology datasets. *BMC Research Notes*, **2011**, 4, 267	2.3	62

175	Assessment of population structure in Pacific Lepeophtheirus salmonis (Krøyer) using single nucleotide polymorphism and microsatellite genetic markers. *Aquaculture*, **2011**, 320, 183-192	4.4	25
174	Differentiating size-dependent responses of juvenile pink salmon (Oncorhynchus gorbuscha) to sea lice (Lepeophtheirus salmonis) infections. *Comparative Biochemistry and Physiology Part D: Genomics and Proteomics*, **2011**, 6, 213-23	2	26
173	Permanent genetic resources added to Molecular Ecology Resources Database 1 August 2010-30 September 2010. *Molecular Ecology Resources*, **2011**, 11, 219-22	8.4	23
172	Expression of olfactory receptors in different life stages and life histories of wild Atlantic salmon (Salmo salar). *Molecular Ecology*, **2011**, 20, 4059-69	5.7	40
171	General and family-specific gene expression responses to viral hemorrhagic septicaemia virus infection in rainbow trout (Oncorhynchus mykiss). *Molecular Immunology*, **2011**, 48, 1046-58	4.3	15
170	Comparative genomics identifies candidate genes for infectious salmon anemia (ISA) resistance in Atlantic salmon (Salmo salar). *Marine Biotechnology*, **2011**, 13, 232-41	3.4	46
169	A 44K microarray dataset of the changing transcriptome in developing Atlantic salmon (Salmo salar L.). *BMC Research Notes*, **2011**, 4, 88	2.3	39
168	Regulation and expression of sexual differentiation factors in embryonic and extragonadal tissues of Atlantic salmon. *BMC Genomics*, **2011**, 12, 31	4.5	26
167	Identification of the sex chromosomes of brown trout (Salmo trutta) and their comparison with the corresponding chromosomes in Atlantic salmon (Salmo salar) and rainbow trout (Oncorhynchus mykiss). *Cytogenetic and Genome Research*, **2011**, 133, 25-33	1.9	23
166	Identification of genes associated with heat tolerance in Arctic charr exposed to acute thermal stress. *Physiological Genomics*, **2011**, 43, 685-96	3.6	70
165	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, 1056-64	3.6	32
164	Population genetic structure of the parasitic copepod Lepeophtheirus salmonis throughout the Atlantic. *Marine Ecology - Progress Series*, **2011**, 427, 161-172	2.6	30
163	Grayling (Thymallinae) phylogeny within salmonids: complete mitochondrial DNA sequences of Thymallus arcticus and Thymallus thymallus. *Journal of Fish Biology*, **2010**, 76, 395-400	1.9	25
162	Flatfish at seamount hydrothermal vents show strong genetic divergence between volcanic arcs. *Marine Ecology*, **2010**, 31, 158-167	1.4	18
161	Zonadhesin is essential for species specificity of sperm adhesion to the egg zona pellucida. *Journal of Biological Chemistry*, **2010**, 285, 24863-70	5.4	57
160	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, 118-25	2.3	20
159	Sequencing the genome of the Atlantic salmon (Salmo salar). *Genome Biology*, **2010**, 11, 403	18.3	216
158	Comprehensive analysis of MHC class I genes from the U-, S-, and Z-lineages in Atlantic salmon. *BMC Genomics*, **2010**, 11, 154	4.5	45

157	Salmo salar and Esox lucius full-length cDNA sequences reveal changes in evolutionary pressures on a post-tetraploidization genome. *BMC Genomics*, **2010**, 11, 279	4.5	151
156	High gene expression of inflammatory markers and IL-17A correlates with severity of injection site reactions of Atlantic salmon vaccinated with oil-adjuvanted vaccines. *BMC Genomics*, **2010**, 11, 336	4.5	47
155	Evolution of duplicated IgH loci in Atlantic salmon, Salmo salar. *BMC Genomics*, **2010**, 11, 486	4.5	63
154	Genomic organization and evolution of the Atlantic salmon hemoglobin repertoire. *BMC Genomics*, **2010**, 11, 539	4.5	21
153	Risk-based analysis of polychlorinated biphenyl toxicity in harbor seals. *Integrated Environmental Assessment and Management*, **2010**, 6, 631-40	2.5	33
152	Comparative genomic analysis of Atlantic salmon, Salmo salar, from Europe and North America. *BMC Genetics*, **2010**, 11, 105	2.6	17
151	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, 1117-25	8.3	24
150	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	2.6	89
149	Identification of a molecular marker for type A spermatogonia by microarray analysis using gonadal cells from pvasa-GFP transgenic rainbow trout (Oncorhynchus mykiss). *Molecular Reproduction and Development*, **2009**, 76, 246-54	2.6	21
148	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	1.9	13
147	The sex determining loci and sex chromosomes in the family salmonidae. *Sexual Development*, **2009** , 3, 78-87	1.6	58
146	Expansion of the genomics research on Atlantic salmon Salmo salar L. project (GRASP) microarray tools. *Journal of Fish Biology*, **2008**, 72, 2051-2070	1.9	35
145	A linkage map of the Atlantic salmon (Salmo salar) based on EST-derived SNP markers. *BMC Genomics*, **2008**, 9, 223	4.5	130
144	Assessing the feasibility of GS FLX Pyrosequencing for sequencing the Atlantic salmon genome. *BMC Genomics*, **2008**, 9, 404	4.5	66
143	Isolation, characterization and comparison of Atlantic and Chinook salmon growth hormone 1 and 2. *BMC Genomics*, **2008**, 9, 522	4.5	25
142	A salmonid EST genomic study: genes, duplications, phylogeny and microarrays. *BMC Genomics*, **2008**, 9, 545	4.5	132
141	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	4.5	98
140	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	1.9	21

139	Functional adaptive diversity of the Atlantic salmon T-cell receptor gamma locus. *Molecular Immunology*, **2008**, 45, 2150-7	4.3	38
138	Coordinated down-regulation of the antigen processing machinery in the gills of amoebic gill disease-affected Atlantic salmon (Salmo salar L.). *Molecular Immunology*, **2008**, 45, 2581-97	4.3	65
137	Microarray analysis reveals differences in expression of cell surface and extracellular matrix components during development of the trout ovary and testis. *Comparative Biochemistry and Physiology Part D: Genomics and Proteomics*, **2008**, 3, 78-90	2	7
136	Striking antigen recognition diversity in the Atlantic salmon T-cell receptor alpha/delta locus. *Developmental and Comparative Immunology*, **2008**, 32, 204-12	3.2	31
135	Effects of diesel on survival, growth, and gene expression in rainbow trout (Oncorhynchus mykiss) fry. *Environmental Science & Technology*, **2008**, 42, 2656-62	10.3	22
134	ARS2 is a conserved eukaryotic gene essential for early mammalian development. *Molecular and Cellular Biology*, **2008**, 28, 1503-14	4.8	38
133	Rainbow smelt (Osmerus mordax) genomic library and EST resources. *Marine Biotechnology*, **2008**, 10, 487-91	3.4	18
132	EST and mitochondrial DNA sequences support a distinct Pacific form of salmon louse, Lepeophtheirus salmonis. *Marine Biotechnology*, **2008**, 10, 741-9	3.4	42
131	Sixteen type 1 polymorphic microsatellite markers from Chinook salmon (Oncorhynchus tshawytscha) expressed sequence tags. *Animal Genetics*, **2008**, 39, 84-5	2.5	4
130	TCR and CD3 antibody cross-reactivity in 44 species. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2007**, 71, 925-33	4.6	14
129	Genomic organization of duplicated major histocompatibility complex class I regions in Atlantic salmon (Salmo salar). *BMC Genomics*, **2007**, 8, 251	4.5	57
128	Bursts and horizontal evolution of DNA transposons in the speciation of pseudotetraploid salmonids. *BMC Genomics*, **2007**, 8, 422	4.5	111
127	A survey of expressed sequence tags from the rainbow trout (Oncorhynchus mykiss) pituitary. *Animal Biotechnology*, **2007**, 18, 213-30	1.4	3
126	The genomic sequence of the bovine T cell receptor gamma TRG loci and localization of the TRGC5 cassette. *Veterinary Immunology and Immunopathology*, **2007**, 115, 346-56	2	33
125	An extensive resource of single nucleotide polymorphism markers associated with Atlantic salmon (Salmo salar) expressed sequences. *Aquaculture*, **2007**, 265, 82-90	4.4	95
124	Toxicogenomic responses in rainbow trout (Oncorhynchus mykiss) hepatocytes exposed to model chemicals and a synthetic mixture. *Aquatic Toxicology*, **2007**, 81, 293-303	5.1	67
123	Contaminant-associated disruption of vitamin A and its receptor (retinoic acid receptor alpha) in free-ranging harbour seals (Phoca vitulina). *Aquatic Toxicology*, **2007**, 81, 319-28	5.1	57
122	Multiple microarray platforms utilized for hepatic gene expression profiling of GH transgenic coho salmon with and without ration restriction. *Journal of Molecular Endocrinology*, **2006**, 37, 259-82	4.5	65

121	Sequence analysis and organization of the Neodiprion abietis nucleopolyhedrovirus genome. *Journal of Virology*, **2006**, 80, 6952-63	6.6	32
120	Identification of the sex-determining locus of Atlantic salmon (Salmo salar) on chromosome 2. *Cytogenetic and Genome Research*, **2006**, 112, 152-9	1.9	38
119	Comparative analysis of the paired immunoglobulin-like receptor (PILR) locus in six mammalian genomes: duplication, conversion, and the birth of new genes. *Physiological Genomics*, **2006**, 27, 201-18	3.6	25
118	Transcriptome profiling the gills of amoebic gill disease (AGD)-affected Atlantic salmon (Salmo salar L.): a role for tumor suppressor p53 in AGD pathogenesis?. *Physiological Genomics*, **2006**, 26, 15-34	3.6	69
117	Expression of morphogenic genes in mature ovarian and testicular tissues: potential stem-cell niche markers and patterning factors. *Molecular Reproduction and Development*, **2006**, 73, 142-52	2.6	28
116	A physical map of the genome of Atlantic salmon, Salmo salar. *Genomics*, **2005**, 86, 396-404	4.3	89
115	Type I microsatellite markers from Atlantic salmon (Salmo salar) expressed sequence tags. *Molecular Ecology Notes*, **2005**, 5, 762-766		23
114	Fish and chips: various methodologies demonstrate utility of a 16,006-gene salmonid microarray. *BMC Genomics*, **2005**, 6, 126	4.5	157
113	Expression and genomic organization of zonadhesin-like genes in three species of fish give insight into the evolutionary history of a mosaic protein. *BMC Genomics*, **2005**, 6, 165	4.5	6
112	A highly redundant BAC library of Atlantic salmon (Salmo salar): an important tool for salmon projects. *BMC Genomics*, **2005**, 6, 50	4.5	70
111	A comprehensive survey of the genes involved in maturation and development of the rainbow trout ovary. *Biology of Reproduction*, **2005**, 72, 687-99	3.9	83
110	Development and application of a salmonid EST database and cDNA microarray: data mining and interspecific hybridization characteristics. *Genome Research*, **2004**, 14, 478-90	9.7	251
109	Microarray analyses identify molecular biomarkers of Atlantic salmon macrophage and hematopoietic kidney response to Piscirickettsia salmonis infection. *Physiological Genomics*, **2004**, 20, 21-35	3.6	134
108	Evolution of duplicated growth hormone genes in autotetraploid salmonid fishes. *Genome*, **2004**, 47, 714-23	2.4	33
107	Analysis of the conservation of synteny between Fugu and human chromosome 12. *BMC Genomics*, **2003**, 4, 30	4.5	4
106	Sequence analysis of a rainbow trout cDNA library and creation of a gene index. *Cytogenetic and Genome Research*, **2003**, 102, 347-54	1.9	92
105	Identification of a novel lipase gene mutated in lpd mice with hypertriglyceridemia and associated with dyslipidemia in humans. *Human Molecular Genetics*, **2003**, 12, 1131-43	5.6	25
104	Human chromosome 7: DNA sequence and biology. *Science*, **2003**, 300, 767-72	33.3	159

103	Recent segmental and gene duplications in the mouse genome. *Genome Biology*, **2003**, 4, R47	18.3	60
102	Population Structure of Sockeye Salmon of the Central Coast of British Columbia: Implications for Recovery Planning. *North American Journal of Fisheries Management*, **2003**, 23, 703-720	1.1	15
101	Population genetic analysis of white sturgeon (Acipenser transmontanus) in the Fraser River. *Journal of Applied Ichthyology*, **2002**, 18, 307-312	0.9	26
100	Evolution of the Dawson caribou (Rangifer tarandus dawsoni). *Canadian Journal of Zoology*, **2002**, 80, 956-960	1.5	11
99	Geographic Variation of Multiple Paternity in the Common Garter Snake (Thamnophis sirtalis). *Copeia*, **2002**, 2002, 15-23	1.1	38
98	Rett syndrome: investigation of nine patients, including PET scan. *Canadian Journal of Neurological Sciences*, **2002**, 29, 345-57	1	31
97	Genomic sequencing of the bovine T cell receptor beta locus. *Veterinary Immunology and Immunopathology*, **2002**, 87, 439-41	2	10
96	Glacial biogeography of North American coho salmon (Oncorhynchus kisutch). *Molecular Ecology*, **2001**, 10, 2775-85	5.7	55
95	ERCC1: a comparative genomic perspective. *Environmental and Molecular Mutagenesis*, **2001**, 38, 209-15	3.2	39
94	Comparative analysis of the gene-dense ACHE/TFR2 region on human chromosome 7q22 with the orthologous region on mouse chromosome 5. *Nucleic Acids Research*, **2001**, 29, 1352-65	20.1	36
93	Cloning and characterization of three novel genes, ALS2CR1, ALS2CR2, and ALS2CR3, in the juvenile amyotrophic lateral sclerosis (ALS2) critical region at chromosome 2q33-q34: candidate genes for ALS2. *Genomics*, **2001**, 71, 200-13	4.3	43
92	Isolation of a ubiquitin-like (UBL5) gene from a screen identifying highly expressed and conserved iris genes. *Genomics*, **2001**, 71, 252-5	4.3	32
91	Comparative genomics of the human and mouse T cell receptor loci. *Immunity*, **2001**, 15, 337-49	32.3	146
90	Mutations in NYX, encoding the leucine-rich proteoglycan nyctalopin, cause X-linked complete congenital stationary night blindness. *Nature Genetics*, **2000**, 26, 319-23	36.3	265
89	Comparative genomic sequence analysis of the Williams syndrome region (LIMK1-RFC2) of human chromosome 7q11.23. *Mammalian Genome*, **2000**, 11, 890-8	3.2	26
88	A 39-kb sequence around a blackbird Mhc class II gene: ghost of selection past and songbird genome architecture. *Molecular Biology and Evolution*, **2000**, 17, 1384-95	8.3	40
87	Human and Mouse DNA Sequence Comparisons: Further Evidence for a Mosaic Model of Genomic Evolution. *Computational Biology*, **2000**, 59-69	0.7	
86	Coastal Refugia and Postglacial Recolonization Routes: A Reply to Demboski, Stone, and Cook. *Evolution; International Journal of Organic Evolution*, **1999**, 53, 2013	3.8	15

85	Determinants of DNA sequence specificity of the androgen, progesterone, and glucocorticoid receptors: evidence for differential steroid receptor response elements. *Molecular Endocrinology*, **1999**, 13, 2090-107		153
84	Mutations in ABC1 in Tangier disease and familial high-density lipoprotein deficiency. *Nature Genetics*, **1999**, 22, 336-45	36.3	1468
83	Easy detection of all T cell receptor gamma (TCRG) gene rearrangements by Southern blot analysis: recommendations for optimal results. *Leukemia*, **1999**, 13, 1620-6	10.7	29
82	Genomic sequence comparison of the human and mouse adenosine deaminase gene regions. *Mammalian Genome*, **1999**, 10, 95-101	3.2	16
81	The structure and evolution of the ribosomal proteins encoded in the spc operon of the archaeon (Crenarchaeota) Sulfolobus acidocaldarius. *Molecular Phylogenetics and Evolution*, **1999**, 12, 177-85	4.1	9
80	Partial 28S rDNA sequences and the antiquity of hydrothermal vent endemic gastropods. *Molecular Phylogenetics and Evolution*, **1999**, 13, 255-74	4.1	43
79	A yeast artificial chromosome-based physical map of the juvenile amyotrophic lateral sclerosis (ALS2) critical region on human chromosome 2q33-q34. *Genomics*, **1999**, 55, 106-12	4.3	18
78	Cell death attenuation by 'Usurpin', a mammalian DED-caspase homologue that precludes caspase-8 recruitment and activation by the CD-95 (Fas, APO-1) receptor complex. *Cell Death and Differentiation*, **1998**, 5, 271-88	12.7	279
77	Loss-of-function mutations in a calcium-channel alpha1-subunit gene in Xp11.23 cause incomplete X-linked congenital stationary night blindness. *Nature Genetics*, **1998**, 19, 264-7	36.3	422
76	Correlation of UV-induced mutational spectra and the in vitro damage distribution at the human hprt gene. *Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis*, **1998**, 403, 237-48	3.3	6
75	Cloning and characterization of the kinetoplastid membrane protein-11 gene locus of Trypanosoma brucei. *Molecular and Biochemical Parasitology*, **1998**, 91, 359-63	1.9	12
74	Mutations of the forkhead/winged-helix gene, FKHL7, in patients with Axenfeld-Rieger anomaly. *American Journal of Human Genetics*, **1998**, 63, 1316-28	11	269
73	A conserved sequence block in murine and human T cell receptor (TCR) Jalpha region is a composite element that enhances TCR alpha enhancer activity and binds multiple nuclear factors. *Proceedings of the National Academy of Sciences of the United States of America*, **1998**, 95, 3839-44	11.5	13
72	Isolation and characterization of coho salmon (Oncorhynchus kisutch) microsatellites and their use in other salmonids. *Molecular Ecology*, **1998**, 7, 1614-6	5.7	71
71	North American Black Bear mtDNA Phylogeography: Implications for Morphology and the Haida Gwaii Glacial Refugium Controversy. *Evolution; International Journal of Organic Evolution*, **1997**, 51, 1647	3.8	49
70	NORTH AMERICAN BLACK BEAR mtDNA PHYLOGEOGRAPHY: IMPLICATIONS FOR MORPHOLOGY AND THE HAIDA GWAII GLACIAL REFUGIUM CONTROVERSY. *Evolution; International Journal of Organic Evolution*, **1997**, 51, 1647-1653	3.8	67
69	A human homolog of the vaccinia virus HindIII K4L gene is a member of the phospholipase D superfamily. *Virus Research*, **1997**, 48, 11-8	6.4	21
68	Evolution and selection of primate T cell antigen receptor BV8 gene subfamily. *Molecular Phylogenetics and Evolution*, **1997**, 8, 51-64	4.1	7

67	Identification of genes from a 500-kb region at 7q11.23 that is commonly deleted in Williams syndrome patients. *Genomics*, **1996**, 36, 328-36	4.3	99
66	The complete 685-kilobase DNA sequence of the human beta T cell receptor locus. *Science*, **1996**, 272, 1755-62	33.3	375
65	Pufferfish and new paradigm for comparative genome analysis. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 1363-5	11.5	17
64	Approaches to detection of distantly related proteins by database searches. *BioTechniques*, **1996**, 21, 1118-22, 1124-5	2.5	3
63	Analysis and comparison of the mouse and human immunoglobulin heavy chain JH-Cmu-Cdelta locus. *Molecular Phylogenetics and Evolution*, **1996**, 5, 33-49	4.1	13
62	Identification of Sonic hedgehog as a candidate gene responsible for holoprosencephaly. *Nature Genetics*, **1996**, 14, 353-6	36.3	558
61	Human and mouse T-cell receptor loci: genomics, evolution, diversity, and serendipity. *Annals of the New York Academy of Sciences*, **1995**, 758, 390-412	6.5	32
60	Human and rodent DNA sequence comparisons: a mosaic model of genomic evolution. *Trends in Genetics*, **1995**, 11, 367-71	8.5	64
59	Human and rodent genomes: Discrepant patterns of DNA sequence similarity. *Animal Biotechnology* , **1994**, 5, 89-101	1.4	1
58	Structural analysis of the mouse T-cell receptor Tcra V2 subfamily. *Immunogenetics*, **1994**, 40, 116-22	3.2	20
57	The expression of mouse T-cell receptor TCRDV genes in BALB/c spleen. *Immunogenetics*, **1994**, 40, 271-9	3.2	5
56	Striking sequence similarity over almost 100 kilobases of human and mouse T-cell receptor DNA. *Nature Genetics*, **1994**, 7, 48-53	36.3	145
55	The human T-cell receptor TCRAC/TCRDC (C alpha/C delta) region: organization, sequence, and evolution of 97.6 kb of DNA. *Genomics*, **1994**, 19, 478-93	4.3	155
54	Nucleotide sequence analysis of 77.7 kb of the human V beta T-cell receptor gene locus: direct primer-walking using cosmid template DNAs. *Genomics*, **1994**, 20, 149-68	4.3	38
53	Organization, sequence, and function of 34.5 kb of genomic DNA encompassing several murine T-cell receptor alpha/delta variable gene segments. *Genomics*, **1994**, 20, 258-66	4.3	11
52	The complete nucleotide sequence of cosmid vector pTL5: location and origin of its genetic components. *Gene*, **1994**, 147, 77-9	3.8	0
51	A simple method using T4 DNA polymerase to clone polymerase chain reaction products. *BioTechniques*, **1994**, 17, 236-8	2.5	19
50	An experimentally derived data set constructed for testing large-scale DNA sequence assembly algorithms. *Genomics*, **1993**, 15, 673-6	4.3	19

49	Restricted usage of T-cell receptor V alpha sequence and variable-joining pairs after normal T-cell development and bone marrow transplantation. *Human Immunology*, **1993**, 37, 178-84	2.3	6
48	DNA sequence determination by hybridization: a strategy for efficient large-scale sequencing. *Science*, **1993**, 260, 1649-52	33.3	197
47	Sequence length and error analysis of Sequenase and automated Taq cycle sequencing methods. *BioTechniques*, **1993**, 14, 442-7	2.5	40
46	Human and mouse T-cell-receptor loci: the importance of comparative large-scale DNA sequence analyses. *Cold Spring Harbor Symposia on Quantitative Biology*, **1993**, 58, 339-48	3.9	16
45	Complete nucleotide sequence of the cosmid vector pWE15A. *Nucleic Acids Research*, **1992**, 20, 3786	20.1	1
44	Nucleotide sequence analysis of 95 kb near the 3Tend of the murine T-cell receptor alpha/delta chain locus: strategy and methodology. *Genomics*, **1992**, 13, 1198-208	4.3	51
43	Organization, structure, and function of 95 kb of DNA spanning the murine T-cell receptor C alpha/C delta region. *Genomics*, **1992**, 13, 1209-30	4.3	124
42	Model genomes: the benefits of analysing homologous human and mouse sequences. *Trends in Biotechnology*, **1992**, 10, 19-22	15.1	8
41	Large-scale DNA sequencing. *Current Opinion in Biotechnology*, **1991**, 2, 92-101	11.4	17
40	Large-scale and automated DNA sequence determination. *Science*, **1991**, 254, 59-67	33.3	287
39	Primate evolution at the DNA level and a classification of hominoids. *Journal of Molecular Evolution*, **1990**, 30, 260-6	3.1	111
38	Sequencing reactions in microtiter plates. *BioTechniques*, **1990**, 9, 32, 34-7	2.5	4
37	Establishment and characterization of a new human BurkittŠs lymphoma cell line (WSU-BL). *Cancer*, **1989**, 64, 1041-8	6.4	10
36	Molecular phylogeny of the family of apes and humans. *Genome*, **1989**, 31, 316-35	2.4	64
35	A molecular view of primate phylogeny and important systematic and evolutionary questions. *Molecular Biology and Evolution*, **1989**, 6, 580-612	8.3	85
34	Tarsius delta- and beta-globin genes: conversions, evolution, and systematic implications. *Journal of Biological Chemistry*, **1989**, 264, 68-79	5.4	52
33	Tarsius □and □globin genes: conversions, evolution, and systematic implications. *Journal of Biological Chemistry*, **1989**, 264, 68-79	5.4	53
32	Implications of the diversity of the immunoglobulin gene superfamily. *Cold Spring Harbor Symposia on Quantitative Biology*, **1989**, 54 Pt 1, 15-29	3.9	19

31	Embryonic epsilon and gamma globin genes of a prosimian primate (Galago crassicaudatus). Nucleotide and amino acid sequences, developmental regulation and phylogenetic footprints. *Journal of Molecular Biology*, **1988**, 203, 439-55	6.5	321
30	Molecular systematics of higher primates: genealogical relations and classification. *Proceedings of the National Academy of Sciences of the United States of America*, **1988**, 85, 7627-31	11.5	106
29	Evolutionary and developmental aspects of two hemoglobin beta-chain genes (epsilon M and beta M) of opossum. *Proceedings of the National Academy of Sciences of the United States of America*, **1988**, 85, 3893-7	11.5	47
28	Rhesus fetal globin genes. Concerted gene evolution in the descent of higher primates. *Journal of Biological Chemistry*, **1988**, 263, 12427-38	5.4	16
27	Rhesus fetal globin genes. Concerted gene evolution in the descent of higher primates.. *Journal of Biological Chemistry*, **1988**, 263, 12427-12438	5.4	21
26	Primary structure and functional properties of the hemoglobin from the free-tailed bat Tadarida brasiliensis (Chiroptera). Small effect of carbon dioxide on oxygen affinity. *Biological Chemistry Hoppe-Seyler*, **1987**, 368, 681-90		7
25	The primary structure of the pallid bat (Antrozous pallidus, Chiroptera) hemoglobin. *Biological Chemistry Hoppe-Seyler*, **1987**, 368, 1197-202		3
24	Orangutan fetal globin genes. Nucleotide sequence reveal multiple gene conversions during hominid phylogeny. *Journal of Biological Chemistry*, **1987**, 262, 7472-83	5.4	33
23	Orangutan fetal globin genes. Nucleotide sequence reveal multiple gene conversions during hominid phylogeny.. *Journal of Biological Chemistry*, **1987**, 262, 7472-7483	5.4	33
22	Globins: a case study in molecular phylogeny. *Cold Spring Harbor Symposia on Quantitative Biology*, **1987**, 52, 875-90	3.9	90
21	Primate eta-globin DNA sequences and man's place among the great apes. *Nature*, **1986**, 319, 234-8	50.4	209
20	Nucleotide sequence and evolution of the orangutan epsilon globin gene region and surrounding Alu repeats. *Journal of Molecular Evolution*, **1986**, 24, 94-102	3.1	57
19	The primary structure of a mouse-eared bat (Myotis velifer, Chiroptera) hemoglobin. *Biological Chemistry Hoppe-Seyler*, **1986**, 367, 1243-9		7
18	Diploidy and triploidy in the hybrid minnow,Phoxinus eos x Phoxinus neogaeus (Pisces: Cyprinidae). *Experientia*, **1985**, 41, 505-507		13
17	Chimpanzee fetal G gamma and A gamma globin gene nucleotide sequences provide further evidence of gene conversions in hominine evolution. *Molecular Biology and Evolution*, **1985**, 2, 370-89	8.3	34
16	Cladistical analysis of primitive G-band sequences for the karyotype of the ancestor of the Cricetidae complex of rodents. *Genetica*, **1984**, 64, 199-208	1.5	27
15	The eta-globin gene. Its long evolutionary history in the beta-globin gene family of mammals. *Journal of Molecular Biology*, **1984**, 180, 803-23	6.5	135
14	Adaptive nature of chromosomal rearrangement: differential fitness in pocket gophers. *Genetica*, **1983**, 61, 161-164	1.5	22

13	Resolving Systematic Relationships With G-bands: a Study of Five Genera of South American Cricetine Rodents. *Systematic Biology*, **1983**, 32, 403-416	8.4	3
12	Numerous chromosomal polymorphisms in a natural population of rice rats (Oryzomys, Cricetidae). *Cytogenetic and Genome Research*, **1983**, 35, 131-5	1.9	23
11	Resolving Systematic Relationships with G-Bands: A Study of Five Genera of South American Cricetine Rodents. *Systematic Zoology*, **1983**, 32, 403		37
10	Determinants of DNA Sequence Specificity of the Androgen, Progesterone, and Glucocorticoid Receptors: Evidence for Differential Steroid Receptor Response Elements		41
9	Genomics and Genome Sequencing: Benefits for Finfish Aquaculture		2
8	Demographic history shaped geographical patterns of deleterious mutation load in a broadly distributed Pacific Salmon		1
7	The rise and fall of the ancient northern pike master sex determining gene		1
6	Functional Analysis of All Salmonid Genomes (FAASG): an international initiative supporting future salmonid research, conservation and aquaculture		7
5	Parallel epigenetic modifications induced by hatchery rearing in a Pacific Salmon		3
4	Comparative regulomics reveals pervasive selection on gene dosage following whole genome duplication		4
3	Convergence in form and function overcomes non-parallel evolutionary histories in a Holarctic fish		5
2	Sex-dependent dominance maintains migration supergene in rainbow trout		13
1	Salmonid DNA Microarrays and Other Tools for Functional Genomics Research369-412		12