Sissel Jentoft

List of Publications by Year in descending order

80 papers	5,657 citations	117625 34 h-index	91884 69 g-index
100 all docs	100 docs citations	100 times ranked	5987 citing authors

#	Article	IF	Citations
1	The Atlantic salmon genome provides insights into rediploidization. Nature, 2016, 533, 200-205.	27.8	1,021
2	The genome sequence of Atlantic cod reveals a unique immune system. Nature, 2011, 477, 207-210.	27.8	730
3	Evolution of the immune system influences speciation rates in teleost fishes. Nature Genetics, 2016, 48, 1204-1210.	21.4	226
4	Effects of stress on growth, cortisol and glucose levels in non-domesticated Eurasian perch (Perca) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Physiology Part A, Molecular & Integrative Physiology, 2005, 141, 353-358.	1.8	189
5	Adaptation to Low Salinity Promotes Genomic Divergence in Atlantic Cod (Gadus morhua L.). Genome Biology and Evolution, 2015, 7, 1644-1663.	2.5	167
6	An improved genome assembly uncovers prolific tandem repeats in Atlantic cod. BMC Genomics, 2017, 18, 95.	2.8	153
7	Vision using multiple distinct rod opsins in deep-sea fishes. Science, 2019, 364, 588-592.	12.6	151
8	Drivers and dynamics of a massive adaptive radiation in cichlid fishes. Nature, 2021, 589, 76-81.	27.8	151
9	Genome architecture enables local adaptation of Atlantic cod despite high connectivity. Molecular Ecology, 2017, 26, 4452-4466.	3.9	130
10	Ancestral duplications and highly dynamic opsin gene evolution in percomorph fishes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1493-1498.	7.1	129
11	Three chromosomal rearrangements promote genomic divergence between migratory and stationary ecotypes of Atlantic cod. Scientific Reports, 2016, 6, 23246.	3.3	128
12	Trans-oceanic genomic divergence of Atlantic cod ecotypes is associated with large inversions. Heredity, 2017, 119, 418-428.	2.6	108
13	â€œIslands of Divergenceâ€•in the Atlantic Cod Genome Represent Polymorphic Chromosomal Rearrangements. Genome Biology and Evolution, 2016, 8, 1012-1022.	2.5	107
14	Next generation sequencing shows high variation of the intestinal microbial species composition in Atlantic cod caught at a single location. BMC Microbiology, 2013, 13, 248.	3.3	98
15	Crude oil exposures reveal roles for intracellular calcium cycling in haddock craniofacial and cardiac development. Scientific Reports, 2016, 6, 31058.	3.3	94
16	Evolution of male pregnancy associated with remodeling of canonical vertebrate immunity in seahorses and pipefishes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9431-9439.	7.1	93
17	Evolutionary redesign of the Atlantic cod (Gadus morhua L.) Toll-like receptor repertoire by gene losses and expansions. Scientific Reports, 2016, 6, 25211.	3.3	89
18	Novel adverse outcome pathways revealed by chemical genetics in a developing marine fish. ELife, 2017, 6, .	6.0	87

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19	Unexpected Interaction with Dispersed Crude Oil Droplets Drives Severe Toxicity in Atlantic Haddock Embryos. PLoS ONE, 2015, 10, e0124376.	2.5	85
20	Why does the immune system of Atlantic cod lack MHC II?. BioEssays, 2012, 34, 648-651.	2.5	72
21	Genomics of speciation and introgression in Princess cichlid fishes from Lake Tanganyika. Molecular Ecology, 2016, 25, 6143-6161.	3.9	68
22	Disentangling structural genomic and behavioural barriers in a sea of connectivity. Molecular Ecology, 2019, 28, 1394-1411.	3.9	68
23	Whole genome sequencing data and de novo draft assemblies for 66 teleost species. Scientific Data, 2017, 4, 160132.	5.3	67
24	De Novo Gene Evolution of Antifreeze Glycoproteins in Codfishes Revealed by Whole Genome Sequence Data. Molecular Biology and Evolution, 2018, 35, 593-606.	8.9	67
25	Ancient DNA reveals the Arctic origin of Viking Age cod from Haithabu, Germany. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9152-9157.	7.1	66
26	Unraveling the Evolution of the Atlantic Codâ€™s (Gadus morhua L.) Alternative Immune Strategy. PLoS ONE, 2013, 8, e74004.	2.5	64
27	Genomic stability through time despite decades of exploitation in cod on both sides of the Atlantic. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	61
28	Linking species habitat and past palaeoclimatic events to evolution of the teleost innate immune system. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20162810.	2.6	60
29	Genomic architecture of haddock (Melanogrammus aeglefinus) shows expansions of innate immune genes and short tandem repeats. BMC Genomics, 2018, 19, 240.	2.8	58
30	Ontogeny of the cortisol stress response in yellow perch (Perca flavescens). Fish Physiology and Biochemistry, 2002, 26, 371-378.	2.3	55
31	Loss of stomach, loss of appetite? Sequencing of the ballan wrasse (Labrus bergylta) genome and intestinal transcriptomic profiling illuminate the evolution of loss of stomach function in fish. BMC Genomics, 2018, 19, 186.	2.8	48
32	Shared ancestral polymorphisms and chromosomal rearrangements as potential drivers of local adaptation in a marine fish. Molecular Ecology, 2020, 29, 2379-2398.	3.9	48
33	Genomic Differentiation and Demographic Histories of Atlantic and Indo-Pacific Yellowfin Tuna (Thunnus albacares) Populations. Genome Biology and Evolution, 2017, 9, 1084-1098.	2.5	46
34	Supergene origin and maintenance in Atlantic cod. Nature Ecology and Evolution, 2022, 6, 469-481.	7.8	46
35	The Grayling Genome Reveals Selection on Gene Expression Regulation after Whole-Genome Duplication. Genome Biology and Evolution, 2018, 10, 2785-2800.	2.5	42
36	Effects of Tank Wall Color and Up-welling Water Flow on Growth and Survival of Eurasian Perch Larvae (Perca fluviatilis). Journal of the World Aquaculture Society, 2006, 37, 313-317.	2.4	41

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37	Genomic characterization of the Atlantic cod sex-locus. Scientific Reports, 2016, 6, 31235.	3.3	34
38	Disentangling the immune response and host-pathogen interactions in Francisella noatunensis infected Atlantic cod. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2019, 30, 333-346.	1.0	31
39	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.	2.3	31
40	Successive Losses of Central Immune Genes Characterize the Gadiformesâ€™ Alternate Immunity. Genome Biology and Evolution, 2016, 8, 3508-3515.	2.5	30
41	â€œOut of the Canâ€: A Draft Genome Assembly, Liver Transcriptome, and Nutrigenomics of the European Sardine, Sardina pilchardus. Genes, 2018, 9, 485.	2.4	30
42	Whole transcriptome analysis of the Atlantic cod vaccine response reveals subtle changes in adaptive immunity. Comparative Biochemistry and Physiology Part D: Genomics and Proteomics, 2019, 31, 100597.	1.0	30
43	Long live the alien: is high genetic diversity a pivotal aspect of crested porcupine (<i>Hystrix) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.9	29
44	Palindromic Sequence Artifacts Generated during Next Generation Sequencing Library Preparation from Historic and Ancient DNA. PLoS ONE, 2014, 9, e89676.	2.5	27
45	Switching on the light: using metagenomic shotgun sequencing to characterize the intestinal microbiome of Atlantic cod. Environmental Microbiology, 2019, 21, 2576-2594.	3.8	27
46	An improved version of theÂAtlantic cod genome andÂadvancements in functionalÂgenomics: implicationsÂforÂthe future of cod farming. , 2016, , 45-72.		25
47	Assessing SNP-markers to study population mixing and ecological adaptation in Baltic cod. PLoS ONE, 2019, 14, e0218127.	2.5	24
48	Single-Cell Transcriptome Profiling of Immune Cell Repertoire of the Atlantic Cod Which Naturally Lacks the Major Histocompatibility Class II System. Frontiers in Immunology, 2020, 11, 559555.	4.8	24
49	Rhodopsin Gene Polymorphism Associated with Divergent Light Environments in Atlantic Cod. Behavior Genetics, 2015, 45, 236-244.	2.1	23
50	Ticket to spawn: Combining economic and genetic data to evaluate the effect of climate and demographic structure on spawning distribution in Atlantic cod. Global Change Biology, 2019, 25, 134-143.	9.5	23
51	Metagenomic Shotgun Analyses Reveal Complex Patterns of Intra- and Interspecific Variation in the Intestinal Microbiomes of Codfishes. Applied and Environmental Microbiology, 2020, 86, .	3.1	23
52	Developmental transcriptomics in Atlantic haddock: Illuminating pattern formation and organogenesis in non-model vertebrates. Developmental Biology, 2016, 411, 301-313.	2.0	22
53	Evolution of Hemoglobin Genes in Codfishes Influenced by Ocean Depth. Scientific Reports, 2017, 7, 7956.	3.3	22
54	Stabilizing selection on Atlantic cod supergenes through a millennium of extensive exploitation. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	22

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55	Demographic history has shaped the strongly differentiated corkwing wrasse populations in Northern Europe. Molecular Ecology, 2020, 29, 160-171.	3.9	20
56	Who is fishing on what stock: population-of-origin of individual cod (Gadus morhua) in commercial and recreational fisheries. ICES Journal of Marine Science, 2018, 75, 2153-2162.	2.5	19
57	A Single Vibrionales 16S rRNA Oligotype Dominates the Intestinal Microbiome in Two Geographically Separated Atlantic cod Populations. Frontiers in Microbiology, 2018, 9, 1561.	3.5	18
58	Molecular cloning and expression of insulin-like growth factor-I (IGF-I) in Eurasian perch (Perca) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 2004, 30, 67-76.	2.3	14
59	Preferential amplification of repetitive DNA during whole genome sequencing library creation from historic samples. Science and Technology of Archaeological Research, 2016, 2, 36-45.	2.4	14
60	A continuous genome assembly of the corkwing wrasse (Symphodus melops). Genomics, 2018, 110, 399-403.	2.9	13
61	Immunological tolerance in the evolution of male pregnancy. Molecular Ecology, 2023, 32, 819-840.	3.9	13
62	Combining population genomics with demographic analyses highlights habitat patchiness and larval dispersal as determinants of connectivity in coastal fish species. Molecular Ecology, 2022, 31, 2562-2577.	3.9	13
63	Characterization of Pipefish Immune Cell Populations Through Single-Cell Transcriptomics. Frontiers in Immunology, 2022, 13, 820152.	4.8	11
64	Evolutionary history and adaptive significance of the polymorphic Pan I in migratory and stationary populations of Atlantic cod (Gadus morhua). Marine Genomics, 2015, 22, 45-54.	1.1	10
65	Local cod (Gadus morhua) revealed by egg surveys and population genetic analysis after longstanding depletion on the Swedish Skagerrak coast. ICES Journal of Marine Science, 2019, 76, 418-429.	2.5	10
66	Interbreeding between local and translocated populations of a cleaner fish in an experimental mesocosm predicts risk of disrupted local adaptation. Ecology and Evolution, 2019, 9, 6665-6677.	1.9	9
67	Longâ€read sequence capture of the haemoglobin gene clusters across codfish species. Molecular Ecology Resources, 2019, 19, 245-259.	4.8	9
68	Historical Demographic Processes Dominate Genetic Variation in Ancient Atlantic Cod Mitogenomes. Frontiers in Ecology and Evolution, 2021, 9, .	2.2	9
69	Ancient DNA reveals a southern presence of the Northeast Arctic cod during the Holocene. Biology Letters, 2022, 18, 20220021.	2.3	9
70	Understanding climate change response in the age of genomics. Journal of Animal Ecology, 2022, 91, 1056-1063.	2.8	9
71	Lack of growth enhancement by exogenous growth hormone treatment in yellow perch (Perca) Tj ETQq1 1 0.784314 rgBT /Overlock	3.5	7
72	An accurate assignment test for extremely lowâ€coverage wholeâ€genome sequence data. Molecular Ecology Resources, 2022, 22, 1330-1344.	4.8	7

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73	Innovation in Nucleotide-Binding Oligomerization-Like Receptor and Toll-Like Receptor Sensing Drives the Major Histocompatibility Complex-II Free Atlantic Cod Immune System. Frontiers in Immunology, 2020, 11, 609456.	4.8	5
74	The Genome of the Great Gerbil Reveals Species-Specific Duplication of an MHCII Gene. Genome Biology and Evolution, 2020, 12, 3832-3849.	2.5	5
75	The conserved Phe GH5 of importance for hemoglobin intersubunit contact is mutated in gadoid fish. BMC Evolutionary Biology, 2014, 14, 54.	3.2	4
76	The new era of genome sequencing using high-throughput sequencing technology: generation of the first version of the Atlantic cod genome. , 2016, , 1-20.		1
77	Future perspective. , 2016, , 275-277.		1
78	Response to comments by Cardinale et al. on â€œLocal cod (Gadus morhua) revealed by egg surveys and population genetic analysis after longstanding depletion on the Swedish Skagerrak coastâ€•by SvedÃng et al. (2019). ICES Journal of Marine Science, 2019, 76, 1212-1213.	2.5	0
79	Application of eDNA Metagenomics to Describe Freshwater Fish Communities. , 0, , .		0
80	Evaluating Environmental DNA Efficiency in the Detection of Freshwater Species in a System with High Endemism. , 0, , .		0