

Kjetill Sigurd Jakobsen

List of Publications by Year in descending order

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Version: 2024-02-01

76
papers

6,780
citations

81900

39
h-index

69250

77
g-index

94
all docs

94
docs citations

94
times ranked

8625
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | An accurate assignment test for extremely low-coverage whole-genome sequence data. <i>Molecular Ecology Resources</i> , 2022, 22, 1330-1344. | 4.8 | 7 |
| 2 | The Earth BioGenome Project 2020: Starting the clock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, . | 7.1 | 124 |
| 3 | Supergene origin and maintenance in Atlantic cod. <i>Nature Ecology and Evolution</i> , 2022, 6, 469-481. | 7.8 | 46 |
| 4 | The Animal Origin of Major Human Infectious Diseases: What Can Past Epidemics Teach Us About Preventing the Next Pandemic?. <i>Zoonoses</i> , 2022, 2, . | 1.1 | 14 |
| 5 | Ancient DNA reveals a southern presence of the Northeast Arctic cod during the Holocene. <i>Biology Letters</i> , 2022, 18, 20220021. | 2.3 | 9 |
| 6 | Lymphocyte subsets in Atlantic cod (<i>Gadus morhua</i>) interrogated by single-cell sequencing. <i>Communications Biology</i> , 2022, 5, . | 4.4 | 4 |
| 7 | Length variation in short tandem repeats affects gene expression in natural populations of <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2021, 33, 2221-2234. | 6.6 | 24 |
| 8 | Genomic stability through time despite decades of exploitation in cod on both sides of the Atlantic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 61 |
| 9 | Historical Demographic Processes Dominate Genetic Variation in Ancient Atlantic Cod Mitogenomes. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, . | 2.2 | 9 |
| 10 | Complex population structure of the Atlantic puffin revealed by whole genome analyses. <i>Communications Biology</i> , 2021, 4, 922. | 4.4 | 14 |
| 11 | Single-Cell Transcriptome Profiling of Immune Cell Repertoire of the Atlantic Cod Which Naturally Lacks the Major Histocompatibility Class II System. <i>Frontiers in Immunology</i> , 2020, 11, 559555. | 4.8 | 24 |
| 12 | Innovation in Nucleotide-Binding Oligomerization-Like Receptor and Toll-Like Receptor Sensing Drives the Major Histocompatibility Complex-II Free Atlantic Cod Immune System. <i>Frontiers in Immunology</i> , 2020, 11, 609456. | 4.8 | 5 |
| 13 | Metagenomic Shotgun Analyses Reveal Complex Patterns of Intra- and Interspecific Variation in the Intestinal Microbiomes of Codfishes. <i>Applied and Environmental Microbiology</i> , 2020, 86, . | 3.1 | 23 |
| 14 | The Genome of the Great Gerbil Reveals Species-Specific Duplication of an MHCII Gene. <i>Genome Biology and Evolution</i> , 2020, 12, 3832-3849. | 2.5 | 5 |
| 15 | Evolutionary selection of biofilm-mediated extended phenotypes in <i>Yersinia pestis</i> in response to a fluctuating environment. <i>Nature Communications</i> , 2020, 11, 281. | 12.8 | 30 |
| 16 | A high-quality assembly of the nine-spined stickleback (<i>Pungitius pungitius</i>) genome. <i>Genome Biology and Evolution</i> , 2019, 11, 3291-3308. | 2.5 | 54 |
| 17 | Tandem repeats lead to sequence assembly errors and impose multi-level challenges for genome and protein databases. <i>Nucleic Acids Research</i> , 2019, 47, 10994-11006. | 14.5 | 236 |
| 18 | Whole transcriptome analysis of the Atlantic cod vaccine response reveals subtle changes in adaptive immunity. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2019, 31, 100597. | 1.0 | 30 |

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|----|---|------|-----------|
| 19 | Vision using multiple distinct rod opsins in deep-sea fishes. <i>Science</i> , 2019, 364, 588-592. | 12.6 | 151 |
| 20 | Switching on the light: using metagenomic shotgun sequencing to characterize the intestinal microbiome of Atlantic cod. <i>Environmental Microbiology</i> , 2019, 21, 2576-2594. | 3.8 | 27 |
| 21 | Disentangling the immune response and host-pathogen interactions in <i>Francisella noatunensis</i> infected Atlantic cod. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2019, 30, 333-346. | 1.0 | 31 |
| 22 | Disentangling structural genomic and behavioural barriers in a sea of connectivity. <i>Molecular Ecology</i> , 2019, 28, 1394-1411. | 3.9 | 68 |
| 23 | Long-read sequence capture of the haemoglobin gene clusters across codfish species. <i>Molecular Ecology Resources</i> , 2019, 19, 245-259. | 4.8 | 9 |
| 24 | De Novo Gene Evolution of Antifreeze Glycoproteins in Codfishes Revealed by Whole Genome Sequence Data. <i>Molecular Biology and Evolution</i> , 2018, 35, 593-606. | 8.9 | 67 |
| 25 | Genomic architecture of haddock (<i>Melanogrammus aeglefinus</i>) shows expansions of innate immune genes and short tandem repeats. <i>BMC Genomics</i> , 2018, 19, 240. | 2.8 | 58 |
| 26 | The Most Developmentally Truncated Fishes Show Extensive Hox Gene Loss and Miniaturized Genomes. <i>Genome Biology and Evolution</i> , 2018, 10, 1088-1103. | 2.5 | 28 |
| 27 | The Grayling Genome Reveals Selection on Gene Expression Regulation after Whole-Genome Duplication. <i>Genome Biology and Evolution</i> , 2018, 10, 2785-2800. | 2.5 | 42 |
| 28 | A Single Vibrionales 16S rRNA Oligotype Dominates the Intestinal Microbiome in Two Geographically Separated Atlantic cod Populations. <i>Frontiers in Microbiology</i> , 2018, 9, 1561. | 3.5 | 18 |
| 29 | Independent losses of a xenobiotic receptor across teleost evolution. <i>Scientific Reports</i> , 2018, 8, 10404. | 3.3 | 26 |
| 30 | Whole genome sequencing data and de novo draft assemblies for 66 teleost species. <i>Scientific Data</i> , 2017, 4, 160132. | 5.3 | 67 |
| 31 | An improved genome assembly uncovers prolific tandem repeats in Atlantic cod. <i>BMC Genomics</i> , 2017, 18, 95. | 2.8 | 153 |
| 32 | Linking species habitat and past palaeoclimatic events to evolution of the teleost innate immune system. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20162810. | 2.6 | 60 |
| 33 | Genome architecture enables local adaptation of Atlantic cod despite high connectivity. <i>Molecular Ecology</i> , 2017, 26, 4452-4466. | 3.9 | 130 |
| 34 | Evolution of Hemoglobin Genes in Codfishes Influenced by Ocean Depth. <i>Scientific Reports</i> , 2017, 7, 7956. | 3.3 | 22 |
| 35 | Ancient DNA reveals the Arctic origin of Viking Age cod from Haithabu, Germany. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9152-9157. | 7.1 | 66 |
| 36 | Using Prokaryotes for Carbon Capture Storage. <i>Trends in Biotechnology</i> , 2017, 35, 22-32. | 9.3 | 44 |

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|----|--|------|-----------|
| 37 | Successive Losses of Central Immune Genes Characterize the Gadiformes's Alternate Immunity. <i>Genome Biology and Evolution</i> , 2016, 8, 3508-3515. | 2.5 | 30 |
| 38 | Evolutionary redesign of the Atlantic cod (<i>Gadus morhua</i> L.) Toll-like receptor repertoire by gene losses and expansions. <i>Scientific Reports</i> , 2016, 6, 25211. | 3.3 | 89 |
| 39 | The Atlantic salmon genome provides insights into rediploidization. <i>Nature</i> , 2016, 533, 200-205. | 27.8 | 1,021 |
| 40 | Evolution of the immune system influences speciation rates in teleost fishes. <i>Nature Genetics</i> , 2016, 48, 1204-1210. | 21.4 | 226 |
| 41 | Genomics of speciation and introgression in Princess cichlid fishes from Lake Tanganyika. <i>Molecular Ecology</i> , 2016, 25, 6143-6161. | 3.9 | 68 |
| 42 | Genomic characterization of the Atlantic cod sex-locus. <i>Scientific Reports</i> , 2016, 6, 31235. | 3.3 | 34 |
| 43 | Three chromosomal rearrangements promote genomic divergence between migratory and stationary ecotypes of Atlantic cod. <i>Scientific Reports</i> , 2016, 6, 23246. | 3.3 | 128 |
| 44 | Adaptation to Low Salinity Promotes Genomic Divergence in Atlantic Cod (<i>Gadus morhua</i> L.). <i>Genome Biology and Evolution</i> , 2015, 7, 1644-1663. | 2.5 | 167 |
| 45 | From Gene Trees to a Dated Allopolyploid Network: Insights from the Angiosperm Genus <i>Viola</i> (Violaceae). <i>Systematic Biology</i> , 2015, 64, 84-101. | 5.6 | 106 |
| 46 | The chloroplast genome of the diatom <i>Seminavis robusta</i> : New features introduced through multiple mechanisms of horizontal gene transfer. <i>Marine Genomics</i> , 2014, 16, 17-27. | 1.1 | 43 |
| 47 | Ancient hybridizations among the ancestral genomes of bread wheat. <i>Science</i> , 2014, 345, 1250092. | 12.6 | 629 |
| 48 | Palindromic Sequence Artifacts Generated during Next Generation Sequencing Library Preparation from Historic and Ancient DNA. <i>PLoS ONE</i> , 2014, 9, e89676. | 2.5 | 27 |
| 49 | Next generation sequencing shows high variation of the intestinal microbial species composition in Atlantic cod caught at a single location. <i>BMC Microbiology</i> , 2013, 13, 248. | 3.3 | 98 |
| 50 | Metagenomics in CO2 Monitoring. <i>Energy Procedia</i> , 2013, 37, 4215-4233. | 1.8 | 8 |
| 51 | Unraveling the Evolution of the Atlantic Cod's (<i>Gadus morhua</i> L.) Alternative Immune Strategy. <i>PLoS ONE</i> , 2013, 8, e74004. | 2.5 | 64 |
| 52 | Inferring Species Networks from Gene Trees in High-Polyploid North American and Hawaiian Violets (<i>Viola</i> , Violaceae). <i>Systematic Biology</i> , 2012, 61, 107-126. | 5.6 | 100 |
| 53 | Metagenomic and geochemical characterization of pockmarked sediments overlaying the Troll petroleum reservoir in the North Sea. <i>BMC Microbiology</i> , 2012, 12, 203. | 3.3 | 25 |
| 54 | Discovery of Nuclear-Encoded Genes for the Neurotoxin Saxitoxin in Dinoflagellates. <i>PLoS ONE</i> , 2011, 6, e20096. | 2.5 | 172 |

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|----|--|------|-----------|
| 55 | The 18S and 28S rDNA identity and phylogeny of the common lotic chrysophyte <i>Hydrurus foetidus</i> . <i>European Journal of Phycology</i> , 2011, 46, 282-291. | 2.0 | 39 |
| 56 | The genome sequence of Atlantic cod reveals a unique immune system. <i>Nature</i> , 2011, 477, 207-210. | 27.8 | 730 |
| 57 | Genomic organization and gene expression of the multiple globins in Atlantic cod: conservation of globin-flanking genes in chordates infers the origin of the vertebrate globin clusters. <i>BMC Evolutionary Biology</i> , 2010, 10, 315. | 3.2 | 22 |
| 58 | Evolution of plant RNA polymerase IV/V genes: evidence of subneofunctionalization of duplicated NRPD2/NRPE2-like paralogs in <i>Viola</i> (Violaceae). <i>BMC Evolutionary Biology</i> , 2010, 10, 45. | 3.2 | 27 |
| 59 | SUBPOPULATION DIFFERENTIATION ASSOCIATED WITH NONRIBOSOMAL PEPTIDE SYNTHETASE GENE CLUSTER DYNAMICS IN THE CYANOBACTERIUM <i>PLANKTOTHRIX</i> SPP.1. <i>Journal of Phycology</i> , 2010, 46, 645-652. | 2.3 | 13 |
| 60 | The cylindrospermopsin gene cluster of <i>Aphanizomenon</i> sp. strain 10E6: organization and recombination. <i>Microbiology (United Kingdom)</i> , 2010, 156, 2438-2451. | 1.8 | 70 |
| 61 | Automatic lane detection and separation in one dimensional gel images using continuous wavelet transform. <i>Analytical Methods</i> , 2010, 2, 1360. | 2.7 | 14 |
| 62 | Natural occurrence of microcystin synthetase deletion mutants capable of producing microcystins in strains of the genus <i>Anabaena</i> (Cyanobacteria). <i>Microbiology (United Kingdom)</i> , 2008, 154, 1007-1014. | 1.8 | 36 |
| 63 | The mosaic structure of the <i>mcyABC</i> operon in <i>Microcystis</i> . <i>Microbiology (United Kingdom)</i> , 2008, 154, 1886-1899. | 1.8 | 52 |
| 64 | Structural analysis of a non-ribosomal halogenated cyclic peptide and its putative operon from <i>Microcystis</i> : implications for evolution of cyanopeptolins. <i>Microbiology (United Kingdom)</i> , 2007, 153, 1382-1393. | 1.8 | 49 |
| 65 | <i>Telonema antarcticum</i> sp. nov., a common marine phagotrophic flagellate. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2005, 55, 2595-2604. | 1.7 | 59 |
| 66 | The Melanocyte-Stimulating Hormone Receptor (Mci-R) Gene as a Tool in Evolutionary Studies of <i>Artiodactyles</i> . <i>Hereditas</i> , 2004, 131, 39-46. | 1.4 | 13 |
| 67 | Discovery of the toxic dinoflagellate <i>Pfiesteria</i> in northern European waters. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2002, 269, 211-214. | 2.6 | 31 |
| 68 | Title is missing!. <i>Conservation Genetics</i> , 2002, 3, 97-111. | 1.5 | 66 |
| 69 | Environmental change and rates of evolution: the phylogeographic pattern within the hartebeest complex as related to climatic variation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2001, 268, 667-677. | 2.6 | 118 |
| 70 | The frequency of silencing in <i>Arabidopsis thaliana</i> varies highly between progeny of siblings and can be influenced by environmental factors. <i>Transgenic Research</i> , 2001, 10, 53-67. | 2.4 | 48 |
| 71 | Genetic Variability in Swayne's Hartebeest, an Endangered Antelope of Ethiopia. <i>Conservation Biology</i> , 2000, 14, 254-264. | 4.7 | 20 |
| 72 | Application of Sequence-Specific Labeled 16S rRNA Gene Oligonucleotide Probes for Genetic Profiling of Cyanobacterial Abundance and Diversity by Array Hybridization. <i>Applied and Environmental Microbiology</i> , 2000, 66, 4004-4011. | 3.1 | 100 |

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|----|--|-----|-----------|
| 73 | Heteroplasmy, Length and Sequence Variation in the mtDNA Control Regions of Three Percid Fish Species (<i>Perca fluviatilis</i> , <i>Acerina cernua</i> , <i>Stizostedion lucioperca</i>). <i>Genetics</i> , 1998, 148, 1907-1919. | 2.9 | 70 |
| 74 | Evolution of Cyanobacteria by Exchange of Genetic Material among Phyletically Related Strains. <i>Journal of Bacteriology</i> , 1998, 180, 3453-3461. | 2.2 | 161 |
| 75 | Molecular Phylogeny and Evolution of <i>Monilinia</i> (Sclerotiniaceae) based on coding and Noncoding rDNA Sequences. <i>American Journal of Botany</i> , 1997, 84, 686-701. | 1.7 | 78 |
| 76 | Hybridization capture of microsatellites directly from genomic DNA. <i>Electrophoresis</i> , 1997, 18, 1519-1523. | 2.4 | 116 |