Henrik Kaessmann

List of Publications by Year
in descending order

65 papers	14,635 citations	57719 44 h-index	98753 67 g-index
79 all docs	79 docs citations	79 times ranked	18506 citing authors

#	Article	IF	Citations
1	Sequence and comparative analysis of the chicken genome provide unique perspectives on vertebrate evolution. Nature, 2004, 432, 695-716.	13.7	2,421
2	Mitochondrial genome variation and the origin of modern humans. Nature, 2000, 408, 708-713.	13.7	1,264
3	The evolution of gene expression levels in mammalian organs. Nature, 2011, 478, 343-348.	13.7	1,080
4	The evolution of lncRNA repertoires and expression patterns in tetrapods. Nature, 2014, 505, 635-640.	13.7	898
5	Ancient Protostome Origin of Chemosensory Ionotropic Glutamate Receptors and the Evolution of Insect Taste and Olfaction. PLoS Genetics, 2010, 6, e1001064.	1.5	680
6	Origins, evolution, and phenotypic impact of new genes. Genome Research, 2010, 20, 1313-1326.	2.4	665
7	Cellular Source and Mechanisms of High Transcriptome Complexity in the Mammalian Testis. Cell Reports, 2013, 3, 2179-2190.	2.9	497
8	Gene expression across mammalian organ development. Nature, 2019, 571, 505-509.	13.7	490
9	Origins and functional evolution of Y chromosomes across mammals. Nature, 2014, 508, 488-493.	13.7	448
10	Extensive Gene Traffic on the Mammalian X Chromosome. Science, 2004, 303, 537-540.	6.0	387
11	RNA-based gene duplication: mechanistic and evolutionary insights. Nature Reviews Genetics, 2009, 10, 19-31.	7.7	374
12	Evolutionary fate of retroposed gene copies in the human genome. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3220-3225.	3.3	339
13	Segmental copy number variation shapes tissue transcriptomes. Nature Genetics, 2009, 41, 424-429.	9.4	284
14	Emergence of Young Human Genes after a Burst of Retroposition in Primates. PLoS Biology, 2005, 3, e357.	2.6	266
15	The sea lamprey germline genome provides insights into programmed genome rearrangement and vertebrate evolution. Nature Genetics, 2018, 50, 270-277.	9.4	262
16	Birth and expression evolution of mammalian microRNA genes. Genome Research, 2013, 23, 34-45.	2.4	252
17	Extensive Nuclear DNA Sequence Diversity Among Chimpanzees. Science, 1999, 286, 1159-1162.	6.0	240
18	DNA sequence variation in a non-coding region of low recombination on the human X chromosome. Nature Genetics, 1999, 22, 78-81.	9.4	237

#	ARTICLE	IF	CITATIONS
19	Developmental dynamics of lncRNAs across mammalian organs and species. Nature, 2019, 571, 510-514.	13.7	219
20	Great ape DNA sequences reveal a reduced diversity and an expansion in humans. Nature Genetics, 2001, 27, 155-156.	9.4	216
21	Evolutionary dynamics of coding and non-coding transcriptomes. Nature Reviews Genetics, 2014, 15, 734-748.	7.7	209
22	Mechanisms and Evolutionary Patterns of Mammalian and Avian Dosage Compensation. PLoS Biology, 2012, 10, e1001328.	2.6	198
23	Chromosomal Gene Movements Reflect the Recent Origin and Biology of Therian Sex Chromosomes. PLoS Biology, 2008, 6, e80.	2.6	182
24	Birth and adaptive evolution of a hominoid gene that supports high neurotransmitter flux. Nature Genetics, 2004, 36, 1061-1063.	9.4	179
25	Dicer1 Depletion in Male Germ Cells Leads to Infertility Due to Cumulative Meiotic and Spermiogenic Defects. PLoS ONE, 2011, 6, e25241.	1.1	130
26	Loss of Egg Yolk Genes in Mammals and the Origin of Lactation and Placentation. PLoS Biology, 2008, 6, e63.	2.6	122
27	Transcriptome and translatome co-evolution in mammals. Nature, 2020, 588, 642-647.	13.7	122
28	The life history of retrocopies illuminates the evolution of new mammalian genes. Genome Research, 2016, 26, 301-314.	2.4	104
29	The genetical history of humans and the great apes. Journal of Internal Medicine, 2002, 251, 1-18.	2.7	102
30	Functional diversification of duplicate genes through subcellular adaptation of encoded proteins. Genome Biology, 2008, 9, R54.	13.9	102
31	Splicing and the Evolution of Proteins in Mammals. PLoS Biology, 2007, 5, e14.	2.6	94
32	Alternative splicing during mammalian organ development. Nature Genetics, 2021, 53, 925-934.	9.4	93
33	Signatures of Domain Shuffling in the Human Genome. Genome Research, 2002, 12, 1642-1650.	2.4	91
34	Concordance among digital gene expression, microarrays, and qPCR when measuring differential expression of microRNAs. BioTechniques, 2010, 48, 219-222.	0.8	90
35	The evolution of duplicate gene expression in mammalian organs. Genome Research, 2017, 27, 1461-1474.	2.4	85
36	Platypus and echidna genomes reveal mammalian biology and evolution. Nature, 2021, 592, 756-762.	13.7	85

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37	Convergent origination of a <i>Drosophila</i>-like dosage compensation mechanism in a reptile lineage. Genome Research, 2017, 27, 1974-1987.	2.4	81
38	Research Resource: The Dynamic Transcriptional Profile of Sertoli Cells During the Progression of Spermatogenesis. Molecular Endocrinology, 2015, 29, 627-642.	3.7	74
39	Conserved microRNA editing in mammalian evolution, development and disease. Genome Biology, 2014, 15, R83.	13.9	70
40	Germ Cell-Specific Targeting of DICER or DGCR8 Reveals a Novel Role for Endo-siRNAs in the Progression of Mammalian Spermatogenesis and Male Fertility. PLoS ONE, 2014, 9, e107023.	1.1	70
41	Extensive Linkage Disequilibrium in Small Human Populations in Eurasia. American Journal of Human Genetics, 2002, 70, 673-685.	2.6	66
42	Birth and Rapid Subcellular Adaptation of a Hominoid-Specific CDC14 Protein. PLoS Biology, 2008, 6, e140.	2.6	66
43	Mitochondrial Targeting Adaptation of the Hominoid-Specific Glutamate Dehydrogenase Driven by Positive Darwinian Selection. PLoS Genetics, 2008, 4, e1000150.	1.5	54
44	Evolutionary Origin and Functions of Retrogene Introns. Molecular Biology and Evolution, 2009, 26, 2147-2156.	3.5	53
45	Repurposing of promoters and enhancers during mammalian evolution. Nature Communications, 2018, 9, 4066.	5.8	51
46	Developmental and evolutionary dynamics of cis-regulatory elements in mouse cerebellar cells. Science, 2021, 373, .	6.0	51
47	Developmental Gene Expression Differences between Humans and Mammalian Models. Cell Reports, 2020, 33, 108308.	2.9	46
48	Patterns of evolution of host proteins involved in retroviral pathogenesis. Retrovirology, 2006, 3, 11.	0.9	42
49	The evolutionary history of the CD209 (DC-SIGN) family in humans and non-human primates. Genes and Immunity, 2008, 9, 483-492.	2.2	42
50	Sex-biased microRNA expression in mammals and birds reveals underlying regulatory mechanisms and a role in dosage compensation. Genome Research, 2017, 27, 1961-1973.	2.4	42
51	The emergence of new genes on the young therian X. Trends in Genetics, 2010, 26, 1-4.	2.9	40
52	Evolution of the Correlation between Expression Divergence and Protein Divergence in Mammals. Genome Biology and Evolution, 2013, 5, 1324-1335.	1.1	39
53	Mating system and <i>avpr1a</i> promoter variation in primates. Biology Letters, 2008, 4, 375-378.	1.0	34
54	Genome mapping of a <i>LYST</i> mutation in corn snakes indicates that vertebrate chromatophore vesicles are lysosome-related organelles. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 26307-26317.	3.3	32

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55	Antiretroviral Activity of Ancestral TRIM5Î±. Journal of Virology, 2008, 82, 2089-2096.	1.5	27
56	Sex Chromosomes and Male Functions: Where Do New Genes Go?. Cell Cycle, 2004, 3, 871-873.	1.3	25
57	Sex chromosomes and male functions: where do new genes go?. Cell Cycle, 2004, 3, 873-5.	1.3	18
58	Circular RNA repertoires are associated with evolutionarily young transposable elements. ELife, 2021, 10, .	2.8	14
59	Assessing Recent Selection and Functionality at Long Noncoding RNA Loci in the Mouse Genome. Genome Biology and Evolution, 2015, 7, 2432-2444.	1.1	12
60	Evolutionary simulations to detect functional lineage-specific genes. Bioinformatics, 2006, 22, 1815-1822.	1.8	10
61	Galanin in an Agnathan: Precursor Identification and Localisation of Expression in the Brain of the Sea Lamprey Petromyzon marinus. Frontiers in Neuroanatomy, 2019, 13, 83.	0.9	10
62	More Than Just a Copy. Science, 2009, 325, 958-959.	6.0	4
63	Die FrÃ¼hzeit des Menschen: ZurÃ¼ck zu den Wurzeln. Biologie in Unserer Zeit, 2002, 32, 352-359.	0.3	2
64	<scp>R</scp>olf <scp>B</scp>ernander (1956â€"2014): pioneer of the archaeal cell cycle. Molecular Microbiology, 2014, 92, 903-909.	1.2	1
65	OTHR-04. Single-nucleus transcriptomic atlas of human hindbrain development identifies cellular origins of pediatric brainstem tumors. Neuro-Oncology, 2022, 24, i147-i147.	0.6	0