Henrik Kaessmann

List of Publications by Year
in descending order

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65 papers	14,635 citations	57631 44 h-index	98622 67 g-index
79 all docs	79 docs citations	79 times ranked	18506 citing authors

#	Article	IF	Citations
1	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
2	Alternative splicing during mammalian organ development. Nature Genetics, 2021, 53, 925-934.	9.4	93
3	Developmental and evolutionary dynamics of cis-regulatory elements in mouse cerebellar cells. Science, 2021, 373, .	6.0	51
4	Circular RNA repertoires are associated with evolutionarily young transposable elements. ELife, 2021, 10, .	2.8	14
5	Platypus and echidna genomes reveal mammalian biology and evolution. Nature, 2021, 592, 756-762.	13.7	85
6	Genome mapping of a LYST 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
7	Transcriptome and translatome co-evolution in mammals. Nature, 2020, 588, 642-647.	13.7	122
8	Developmental Gene Expression Differences between Humans and Mammalian Models. Cell Reports, 2020, 33, 108308.	2.9	46
9	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
10	Gene expression across mammalian organ development. Nature, 2019, 571, 505-509.	13.7	490
11	Developmental dynamics of lncRNAs across mammalian organs and species. Nature, 2019, 571, 510-514.	13.7	219
12	The sea lamprey germline genome provides insights into programmed genome rearrangement and vertebrate evolution. Nature Genetics, 2018, 50, 270-277.	9.4	262
13	Repurposing of promoters and enhancers during mammalian evolution. Nature Communications, 2018, 9, 4066.	5.8	51
14	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
15	The evolution of duplicate gene expression in mammalian organs. Genome Research, 2017, 27, 1461-1474.	2.4	85
16	Convergent origination of a Drosophila-like dosage compensation mechanism in a reptile lineage. Genome Research, 2017, 27, 1974-1987.	2.4	81
17	The life history of retrocopies illuminates the evolution of new mammalian genes. Genome Research, 2016, 26, 301-314.	2.4	104
18	Research Resource: The Dynamic Transcriptional Profile of Sertoli Cells During the Progression of Spermatogenesis. Molecular Endocrinology, 2015, 29, 627-642.	3.7	74

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19	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
20	<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
21	Origins and functional evolution of Y chromosomes across mammals. Nature, 2014, 508, 488-493.	13.7	448
22	The evolution of lncRNA repertoires and expression patterns in tetrapods. Nature, 2014, 505, 635-640.	13.7	898
23	Evolutionary dynamics of coding and non-coding transcriptomes. Nature Reviews Genetics, 2014, 15, 734-748.	7.7	209
24	Conserved microRNA editing in mammalian evolution, development and disease. Genome Biology, 2014, 15, R83.	13.9	70
25	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
26	Cellular Source and Mechanisms of High Transcriptome Complexity in the Mammalian Testis. Cell Reports, 2013, 3, 2179-2190.	2.9	497
27	Evolution of the Correlation between Expression Divergence and Protein Divergence in Mammals. Genome Biology and Evolution, 2013, 5, 1324-1335.	1.1	39
28	Birth and expression evolution of mammalian microRNA genes. Genome Research, 2013, 23, 34-45.	2.4	252
29	Mechanisms and Evolutionary Patterns of Mammalian and Avian Dosage Compensation. PLoS Biology, 2012, 10, e1001328.	2.6	198
30	Dicer1 Depletion in Male Germ Cells Leads to Infertility Due to Cumulative Meiotic and Spermiogenic Defects. PLoS ONE, 2011, 6, e25241.	1.1	130
31	The evolution of gene expression levels in mammalian organs. Nature, 2011, 478, 343-348.	13.7	1,080
32	The emergence of new genes on the young therian X. Trends in Genetics, 2010, 26, 1-4.	2.9	40
33	Concordance among digital gene expression, microarrays, and qPCR when measuring differential expression of microRNAs. BioTechniques, 2010, 48, 219-222.	0.8	90
34	Ancient Protostome Origin of Chemosensory Ionotropic Glutamate Receptors and the Evolution of Insect Taste and Olfaction. PLoS Genetics, 2010, 6, e1001064.	1.5	680
35	Origins, evolution, and phenotypic impact of new genes. Genome Research, 2010, 20, 1313-1326.	2.4	665
36	Segmental copy number variation shapes tissue transcriptomes. Nature Genetics, 2009, 41, 424-429.	9.4	284

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37	RNA-based gene duplication: mechanistic and evolutionary insights. Nature Reviews Genetics, 2009, 10, 19-31.	7.7	374
38	Evolutionary Origin and Functions of Retrogene Introns. Molecular Biology and Evolution, 2009, 26, 2147-2156.	3.5	53
39	More Than Just a Copy. Science, 2009, 325, 958-959.	6.0	4
40	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
41	Mating system and avpr1a promoter variation in primates. Biology Letters, 2008, 4, 375-378.	1.0	34
42	Loss of Egg Yolk Genes in Mammals and the Origin of Lactation and Placentation. PLoS Biology, 2008, 6, e63.	2.6	122
43	Functional diversification of duplicate genes through subcellular adaptation of encoded proteins. Genome Biology, 2008, 9, R54.	13.9	102
44	Mitochondrial Targeting Adaptation of the Hominoid-Specific Glutamate Dehydrogenase Driven by Positive Darwinian Selection. PLoS Genetics, 2008, 4, e1000150.	1.5	54
45	Chromosomal Gene Movements Reflect the Recent Origin and Biology of Therian Sex Chromosomes. PLoS Biology, 2008, 6, e80.	2.6	182
46	Birth and Rapid Subcellular Adaptation of a Hominoid-Specific CDC14 Protein. PLoS Biology, 2008, 6, e140.	2.6	66
47	Antiretroviral Activity of Ancestral TRIM5Î±. Journal of Virology, 2008, 82, 2089-2096.	1.5	27
48	Splicing and the Evolution of Proteins in Mammals. PLoS Biology, 2007, 5, e14.	2.6	94
49	Patterns of evolution of host proteins involved in retroviral pathogenesis. Retrovirology, 2006, 3, 11.	0.9	42
50	Evolutionary simulations to detect functional lineage-specific genes. Bioinformatics, 2006, 22, 1815-1822.	1.8	10
51	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
52	Emergence of Young Human Genes after a Burst of Retroposition in Primates. PLoS Biology, 2005, 3, e357.	2.6	266
53	Extensive Gene Traffic on the Mammalian X Chromosome. Science, 2004, 303, 537-540.	6.0	387
54	Sex Chromosomes and Male Functions: Where Do New Genes Go?. Cell Cycle, 2004, 3, 871-873.	1.3	25

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55	Birth and adaptive evolution of a hominoid gene that supports high neurotransmitter flux. Nature Genetics, 2004, 36, 1061-1063.	9.4	179
56	Sequence and comparative analysis of the chicken genome provide unique perspectives on vertebrate evolution. Nature, 2004, 432, 695-716.	13.7	2,421
57	Sex chromosomes and male functions: where do new genes go?. Cell Cycle, 2004, 3, 873-5.	1.3	18
58	Signatures of Domain Shuffling in the Human Genome. Genome Research, 2002, 12, 1642-1650.	2.4	91
59	Extensive Linkage Disequilibrium in Small Human Populations in Eurasia. American Journal of Human Genetics, 2002, 70, 673-685.	2.6	66
60	Die FrÃ¼hzeit des Menschen: ZurÃ¼ck zu den Wurzeln. Biologie in Unserer Zeit, 2002, 32, 352-359.	0.3	2
61	The genetical history of humans and the great apes. Journal of Internal Medicine, 2002, 251, 1-18.	2.7	102
62	Great ape DNA sequences reveal a reduced diversity and an expansion in humans. Nature Genetics, 2001, 27, 155-156.	9.4	216
63	Mitochondrial genome variation and the origin of modern humans. Nature, 2000, 408, 708-713.	13.7	1,264
64	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
65	Extensive Nuclear DNA Sequence Diversity Among Chimpanzees. Science, 1999, 286, 1159-1162.	6.0	240