CÃ©dric Feschotte

List of Publications by Year
in descending order

96 papers	17,608 citations	31949 53 h-index	36008 97 g-index
126 all docs	126 docs citations	126 times ranked	16993 citing authors

#	Article	IF	Citations
1	RepeatModeler2 for automated genomic discovery of transposable element families. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9451-9457.	3.3	1,480
2	Transposable elements and the evolution of regulatory networks. Nature Reviews Genetics, 2008, 9, 397-405.	7.7	1,108
3	Regulatory activities of transposable elements: from conflicts to benefits. Nature Reviews Genetics, 2017, 18, 71-86.	7.7	1,065
4	DNA Transposons and the Evolution of Eukaryotic Genomes. Annual Review of Genetics, 2007, 41, 331-368.	3.2	1,003
5	Plant transposable elements: where genetics meets genomics. Nature Reviews Genetics, 2002, 3, 329-341.	7.7	854
6	Ten things you should know about transposable elements. Genome Biology, 2018, 19, 199.	3.8	817
7	Regulatory evolution of innate immunity through co-option of endogenous retroviruses. Science, 2016, 351, 1083-1087.	6.0	760
8	Endogenous viruses: insights into viral evolution and impact on host biology. Nature Reviews Genetics, 2012, 13, 283-296.	7.7	721
9	Transposable Elements Are Major Contributors to the Origin, Diversification, and Regulation of Vertebrate Long Noncoding RNAs. PLoS Genetics, 2013, 9, e1003470.	1.5	574
10	Transposase-Derived Transcription Factors Regulate Light Signaling in <i>Arabidopsis</i>. Science, 2007, 318, 1302-1305.	6.0	439
11	Promiscuous DNA: horizontal transfer of transposable elements and why it matters for eukaryotic evolution. Trends in Ecology and Evolution, 2010, 25, 537-546.	4.2	427
12	Sequencing of <i>Culex quinquefasciatus</i> Establishes a Platform for Mosquito Comparative Genomics. Science, 2010, 330, 86-88.	6.0	424
13	The Neuronal Gene Arc Encodes a Repurposed Retrotransposon Gag Protein that Mediates Intercellular RNA Transfer. Cell, 2018, 172, 275-288.e18.	13.5	382
14	Dynamics of genome size evolution in birds and mammals. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E1460-E1469.	3.3	324
15	A Field Guide to Eukaryotic Transposable Elements. Annual Review of Genetics, 2020, 54, 539-561.	3.2	279
16	The Burmese python genome reveals the molecular basis for extreme adaptation in snakes. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 20645-20650.	3.3	260
17	The evolutionary history of human DNA transposons: Evidence for intense activity in the primate lineage. Genome Research, 2007, 17, 422-432.	2.4	249
18	Ancient Transposable Elements Transformed the Uterine Regulatory Landscape and Transcriptome during the Evolution of Mammalian Pregnancy. Cell Reports, 2015, 10, 551-561.	2.9	249

#	Article	IF	Citations
19	Volatile evolution of long noncoding RNA repertoires: mechanisms and biological implications. Trends in Genetics, 2014, 30, 439-452.	2.9	235
20	A role for hostâ€"parasite interactions in the horizontal transfer of transposons across phyla. Nature, 2010, 464, 1347-1350.	13.7	231
21	Transposable Element Domestication As an Adaptation to Evolutionary Conflicts. Trends in Genetics, 2017, 33, 817-831.	2.9	227
22	Birth of a chimeric primate gene by capture of the transposase gene from a mobile element. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 8101-8106.	3.3	219
23	A Single-Cell RNA Expression Map of Human Coronavirus Entry Factors. Cell Reports, 2020, 32, 108175.	2.9	215
24	Mavericks, a novel class of giant transposable elements widespread in eukaryotes and related to DNA viruses. Gene, 2007, 390, 3-17.	1.0	213
25	Hostâ€"transposon interactions: conflict, cooperation, and cooption. Genes and Development, 2019, 33, 1098-1116.	2.7	209
26	Repeated horizontal transfer of a DNA transposon in mammals and other tetrapods. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17023-17028.	3.3	189
27	Using rice to understand the origin and amplification of miniature inverted repeat transposable elements (MITEs). Current Opinion in Plant Biology, 2004, 7, 115-119.	3.5	162
28	Massive amplification of rolling-circle transposons in the lineage of the bat Myotis lucifugus. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1895-1900.	3.3	154
29	Multiple waves of recent DNA transposon activity in the bat, <i>Myotis lucifugus</i>. Genome Research, 2008, 18, 717-728.	2.4	154
30	LTR Retrotransposons Contribute to Genomic Gigantism in Plethodontid Salamanders. Genome Biology and Evolution, 2012, 4, 168-183.	1.1	152
31	Genome-Wide Analysis of <i>mariner</i>-Like Transposable Elements in Rice Reveals Complex Relationships With <i>Stowaway</i> Miniature Inverted Repeat Transposable Elements (MITEs). Genetics, 2003, 163, 747-758.	1.2	152
32	Evidence that a Family of Miniature Inverted-Repeat Transposable Elements (MITEs) from the Arabidopsis thaliana Genome Has Arisen from a pogo-like DNA Transposon. Molecular Biology and Evolution, 2000, 17, 730-737.	3.5	149
33	Dynamics of transposable elements: towards a community ecology of the genome. Trends in Genetics, 2009, 25, 317-323.	2.9	147
34	Tuned for Transposition: Molecular Determinants Underlying the Hyperactivity of a <i>Stowaway</i> MITE. Science, 2009, 325, 1391-1394.	6.0	139
35	Co-option of endogenous viral sequences for host cell function. Current Opinion in Virology, 2017, 25, 81-89.	2.6	136
36	Roles of transposable elements in the regulation of mammalian transcription. Nature Reviews Molecular Cell Biology, 2022, 23, 481-497.	16.1	135

#	Article	IF	Citations
37	Structure of the germline genome of Tetrahymena thermophila and relationship to the massively rearranged somatic genome. ELife, 2016, 5, .	2.8	130
38	Genomic Fossils Calibrate the Long-Term Evolution of Hepadnaviruses. PLoS Biology, 2010, 8, e1000495.	2.6	126
39	Convergent Domestication of pogo-like Transposases into Centromere-Binding Proteins in Fission Yeast and Mammals. Molecular Biology and Evolution, 2007, 25, 29-41.	3.5	112
40	Mariner-like transposases are widespread and diverse in flowering plants. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 280-285.	3.3	111
41	Horizontal acquisition of transposable elements and viral sequences: patterns and consequences. Current Opinion in Genetics and Development, 2018, 49, 15-24.	1.5	109
42	Exploring Repetitive DNA Landscapes Using REPCLASS, a Tool That Automates the Classification of Transposable Elements in Eukaryotic Genomes. Genome Biology and Evolution, 2009, 1, 205-220.	1.1	102
43	Recurrent evolution of vertebrate transcription factors by transposase capture. Science, 2021, 371, .	6.0	102
44	Parallel Germline Infiltration of a Lentivirus in Two Malagasy Lemurs. PLoS Genetics, 2009, 5, e1000425.	1.5	96
45	Discovery of Highly Divergent Repeat Landscapes in Snake Genomes Using High-Throughput Sequencing. Genome Biology and Evolution, 2011, 3, 641-653.	1.1	87
46	Fighting Fire with Fire: Endogenous Retrovirus Envelopes as Restriction Factors. Journal of Virology, 2015, 89, 4047-4050.	1.5	83
47	A call for benchmarking transposable element annotation methods. Mobile DNA, 2015, 6, 13.	1.3	83
48	DNA-binding specificity of rice mariner-like transposases and interactions with Stowaway MITEs. Nucleic Acids Research, 2005, 33, 2153-2165.	6.5	74
49	Functional characterization of <i>piggyBat</i> from the bat <i>Myotis lucifugus</i> unveils an active mammalian DNA transposon. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 234-239.	3.3	73
50	Variation in proviral content among human genomes mediated by LTR recombination. Mobile DNA, 2018, 9, 36.	1.3	71
51	Genomic DNA transposition induced by human PGBD5. ELife, 2015, 4, .	2.8	67
52	Merlin, a New Superfamily of DNA Transposons Identified in Diverse Animal Genomes and Related to Bacterial IS1016 Insertion Sequences. Molecular Biology and Evolution, 2004, 21, 1769-1780.	3.5	58
53	PIF-like Transposons are Common in Drosophila and Have Been Repeatedly Domesticated to Generate New Host Genes. Molecular Biology and Evolution, 2007, 24, 1872-1888.	3.5	57
54	Unexpected Diversity and Differential Success of DNA Transposons in Four Species of Entamoeba Protozoans. Molecular Biology and Evolution, 2005, 22, 1751-1763.	3.5	56

#	Article	IF	Citations
55	Rampant Horizontal Transfer of SPIN Transposons in Squamate Reptiles. Molecular Biology and Evolution, 2012, 29, 503-515.	3.5	55
56	Genomics of Ecological Adaptation in Cactophilic Drosophila. Genome Biology and Evolution, 2015, 7, 349-366.	1.1	51
57	Non-mammalian c-integrases are encoded by giant transposable elements. Trends in Genetics, 2005, 21, 551-552.	2.9	50
58	DNA transposons have colonized the genome of the giant virus Pandoravirus salinus. BMC Biology, 2015, 13, 38.	1.7	50
59	A resurrected mammalian <i>hAT</i> transposable element and a closely related insect element are highly active in human cell culture. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E478-87.	3.3	46
60	Genome-Wide Characterization of Endogenous Retroviruses in the Bat Myotis lucifugus Reveals Recent and Diverse Infections. Journal of Virology, 2013, 87, 8493-8501.	1.5	46
61	Structures of virus-like capsids formed by the Drosophila neuronal Arc proteins. Nature Neuroscience, 2020, 23, 172-175.	7.1	46
62	Cross-Species Transmission and Differential Fate of an Endogenous Retrovirus in Three Mammal Lineages. PLoS Pathogens, 2015, 11, e1005279.	2.1	45
63	Recent amplification of miniature inverted-repeat transposable elements in the vector mosquito Culex pipiens: characterization of the Mimo family. Gene, 2000, 250, 109-116.	1.0	43
64	The piggyBac transposon holds promise for human gene therapy. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14981-14982.	3.3	43
65	Recurrent Horizontal Transfers of Chapaev Transposons in Diverse Invertebrate and Vertebrate Animals. Genome Biology and Evolution, 2014, 6, 1375-1386.	1.1	42
66	RNAi-dependent <i>Polycomb</i> repression controls transposable elements in <i>Tetrahymena</i>. Genes and Development, 2019, 33, 348-364.	2.7	42
67	Ecological networks to unravel the routes to horizontal transposon transfers. PLoS Biology, 2017, 15, e2001536.	2.6	39
68	Analysis of 3D genomic interactions identifies candidate host genes that transposable elements potentially regulate. Genome Biology, 2018, 19, 216.	3.8	38
69	Birth of a Retroposon: The Twin SINE Family from the Vector Mosquito Culex pipiens May Have Originated from a Dimeric tRNA Precursor. Molecular Biology and Evolution, 2001, 18, 74-84.	3.5	35
70	Bornavirus enters the genome. Nature, 2010, 463, 39-40.	13.7	33
71	Contribution of unfixed transposable element insertions to human regulatory variation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190331.	1.8	32
72	Mosaic cis-regulatory evolution drives transcriptional partitioning of HERVH endogenous retrovirus in the human embryo. ELife, 2022, 11, .	2.8	31

#	Article	IF	Citations
73	Genomic Landscape of Human, Bat, and Ex Vivo DNA Transposon Integrations. Molecular Biology and Evolution, 2014, 31, 1816-1832.	3.5	30
74	Evolution of mouse circadian enhancers from transposable elements. Genome Biology, 2021, 22, 193.	3.8	30
75	Zebrafish transposable elements show extensive diversification in age, genomic distribution, and developmental expression. Genome Research, 2022, 32, 1408-1423.	2.4	29
76	Spy: A New Group of Eukaryotic DNA Transposons without Target Site Duplications. Genome Biology and Evolution, 2014, 6, 1748-1757.	1.1	28
77	PIF- and Pong-Like Transposable Elements: Distribution, Evolution and Relationship With Tourist-Like Miniature Inverted-Repeat Transposable Elements. Genetics, 2004, 166, 971-986.	1.2	27
78	SARS-CoV-2 infection mediates differential expression of human endogenous retroviruses and long interspersed nuclear elements. JCI Insight, 2021, 6, .	2.3	26
79	A cornucopia of <i>Helitrons</i> shapes the maize genome. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19747-19748.	3.3	24
80	Exploration of the Drosophila buzzatii transposable element content suggests underestimation of repeats in Drosophila genomes. BMC Genomics, 2016, 17, 344.	1.2	22
81	An Ac -like Transposable Element Family With Transcriptionally Active Y-Linked Copies in the White Campion, Silene latifolia. Genetics, 2003, 165, 799-807.	1.2	22
82	Repair-Mediated Duplication by Capture of Proximal Chromosomal DNA Has Shaped Vertebrate Genome Evolution. PLoS Genetics, 2009, 5, e1000469.	1.5	16
83	HorizontalSPINning of transposons. Communicative and Integrative Biology, 2009, 2, 117-119.	0.6	14
84	Human Endogenous Retrovirus K Rec Forms a Regulatory Loop with MITF that Opposes the Progression of Melanoma to an Invasive Stage. Viruses, 2020, 12, 1303.	1.5	14
85	Single-Cell Analysis Reveals Unexpected Cellular Changes and Transposon Expression Signatures in the Colonic Epithelium of Treatment-NaÃ¯ve Adult Crohnâ€™s Disease Patients. Cellular and Molecular Gastroenterology and Hepatology, 2022, 13, 1717-1740.	2.3	12
86	TypeTE: a tool to genotype mobile element insertions from whole genome resequencing data. Nucleic Acids Research, 2020, 48, e36-e36.	6.5	11
87	On the transposon origins of mammalian SCAND3 and KRBA2, two zinc-finger genes carrying an integrase/transposase domain. Mobile Genetic Elements, 2012, 2, 205-210.	1.8	9
88	Mobile genetic elements and genome evolution 2014. Mobile DNA, 2014, 5, 26.	1.3	9
89	Micro-repetitive Structure of Genomic Sequences and the Identification of Ancient Repeat Elements. , 2007, , .		6
90	First international workshop on human endogenous retroviruses and diseases, HERVs & disease 2015. Mobile DNA, 2015, 6, 20.	1.3	6

#	Article	IF	Citations
91	A study of the repetitive structure and distribution of short motifs in human genomic sequences. International Journal of Bioinformatics Research and Applications, 2007, 3, 523.	0.1	5
92	Transposons take remote control. ELife, 2018, 7, .	2.8	5
93	An algorithm for the reconstruction of consensus sequences of ancient segmental duplications and transposon copies in eukaryotic genomes. International Journal of Bioinformatics Research and Applications, 2010, 6, 147.	0.1	3
94	Transposons Up the Dosage. Science, 2013, 342, 812-813.	6.0	3
95	A Single-Cell RNA Expression Map of Human Coronavirus Entry Factors. SSRN Electronic Journal, 2020, , 3611279.	0.4	2
96	Endogenous viral elements: evolution and impact. Virologie, 2016, 20, 158-173.	0.1	2