

Jef D Boeke

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

174
papers

25,487
citations

60
h-index

159
g-index

220
ext. papers

29,282
ext. citations

18.2
avg, IF

6.55
L-index

#	Paper	IF	Citations
174	Sirt6 regulates lifespan in .. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	7
173	LINE-1 expression in cancer correlates with p53 mutation, copy number alteration, and S phase checkpoint.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	4
172	Transcriptional neighborhoods regulate transcript isoform lengths and expression levels.. <i>Science</i> , 2022 , 375, 1000-1005	33.3	1
171	Results of Two Cases of Pig-to-Human Kidney Xenotransplantation.. <i>New England Journal of Medicine</i> , 2022 , 386, 1889-1898	59.2	12
170	A versatile platform for locus-scale genome rewriting and verification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	5
169	De novo assembly and delivery to mouse cells of a 101 kb functional human gene. <i>Genetics</i> , 2021 , 218,	4	2
168	Alternative splicing is a developmental switch for hTERT expression. <i>Molecular Cell</i> , 2021 , 81, 2349-2360	16.6	6
167	Regulation of the Dot1 histone H3K79 methyltransferase by histone H4K16 acetylation. <i>Science</i> , 2021 , 371,	33.3	20
166	Application of counter-selectable marker PIGA in engineering designer deletion cell lines and characterization of CRISPR deletion efficiency. <i>Nucleic Acids Research</i> , 2021 , 49, 2642-2654	20.1	2
165	RIP-seq reveals LINE-1 ORF1p association with p-body enriched mRNAs. <i>Mobile DNA</i> , 2021 , 12, 5	4.4	6
164	Unbiased proteomic mapping of the LINE-1 promoter using CRISPR Cas9. <i>Mobile DNA</i> , 2021 , 12, 21	4.4	1
163	EUAdb: A resource for COVID-19 test development and comparison. <i>PLoS ONE</i> , 2021 , 16, e0255417	3.7	0
162	The role of retrotransposable elements in ageing and age-associated diseases. <i>Nature</i> , 2021 , 596, 43-53	50.4	26
161	Engineered dual selection for directed evolution of SpCas9 PAM specificity. <i>Nature Communications</i> , 2021 , 12, 349	17.4	3
160	Immune and Genome Engineering as the Future of Transplantable Tissue.. <i>New England Journal of Medicine</i> , 2021 , 385, 2451-2462	59.2	7
159	Genetic interaction mapping informs integrative structure determination of protein complexes. <i>Science</i> , 2020 , 370,	33.3	11
158	CRISPR-Cas12a system in fission yeast for multiplex genomic editing and CRISPR interference. <i>Nucleic Acids Research</i> , 2020 , 48, 5788-5798	20.1	12

157	Synthetic Genomes. <i>Annual Review of Biochemistry</i> , 2020 , 89, 77-101	29.1	20
156	Human transposon insertion profiling by sequencing (TIPseq) to map LINE-1 insertions in single cells. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020 , 375, 20190335	5.8	2
155	Cell fitness screens reveal a conflict between LINE-1 retrotransposition and DNA replication. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 168-178	17.6	31
154	BRCA1 and S phase DNA repair pathways restrict LINE-1 retrotransposition in human cells. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 179-191	17.6	22
153	Widespread Transcriptional Scanning in the Testis Modulates Gene Evolution Rates. <i>Cell</i> , 2020 , 180, 248-262.e21	36.2	21
152	Phylogenetic debugging of a complete human biosynthetic pathway transplanted into yeast. <i>Nucleic Acids Research</i> , 2020 , 48, 486-499	20.1	4
151	Pathway engineering in yeast for synthesizing the complex polyketide bikaverin. <i>Nature Communications</i> , 2020 , 11, 6197	17.4	11
150	Superloser: A Plasmid Shuffling Vector for with Exceedingly Low Background. <i>G3: Genes, Genomes, Genetics</i> , 2019 , 9, 2699-2707	3.2	1
149	Transposon insertion profiling by sequencing (TIPseq) for mapping LINE-1 insertions in the human genome. <i>Mobile DNA</i> , 2019 , 10, 8	4.4	14
148	Big DNA as a tool to dissect an age-related macular degeneration-associated haplotype. <i>Precision Clinical Medicine</i> , 2019 , 2, 1-7	6.7	3
147	L1 drives IFN in senescent cells and promotes age-associated inflammation. <i>Nature</i> , 2019 , 566, 73-78	50.4	364
146	Structure and function of the Orc1 BAH-nucleosome complex. <i>Nature Communications</i> , 2019 , 10, 2894	17.4	14
145	Comprehensive Scanning Mutagenesis of Human Retrotransposon LINE-1 Identifies Motifs Essential for Function. <i>Genetics</i> , 2019 , 213, 1401-1414	4	3
144	Inborn Errors of RNA Lariat Metabolism in Humans with Brainstem Viral Infection. <i>Cell</i> , 2018 , 172, 952-965.e18	36.1	64
143	Stress response factors drive regrowth of quiescent cells. <i>Current Genetics</i> , 2018 , 64, 807-810	2.9	7
142	Dynamic motif occupancy (DynaMO) analysis identifies transcription factors and their binding sites driving dynamic biological processes. <i>Nucleic Acids Research</i> , 2018 , 46, e2	20.1	9
141	Construction of Designer Selectable Marker Deletions with a CRISPR-Cas9 Toolbox in and New Design of Common Entry Vectors. <i>G3: Genes, Genomes, Genetics</i> , 2018 , 8, 789-796	3.2	6
140	A toolbox of immunoprecipitation-grade monoclonal antibodies to human transcription factors. <i>Nature Methods</i> , 2018 , 15, 330-338	21.6	37

139	LINE-1 protein localization and functional dynamics during the cell cycle. <i>ELife</i> , 2018 , 7,	8.9	63
138	Karyotype engineering by chromosome fusion leads to reproductive isolation in yeast. <i>Nature</i> , 2018 , 560, 392-396	50.4	67
137	Meeting report: mobile genetic elements and genome plasticity 2018. <i>Mobile DNA</i> , 2018 , 9, 21	4.4	3
136	Gibson Deletion: a novel application of isothermal in vitro recombination. <i>Biological Procedures Online</i> , 2018 , 20, 2	8.3	1
135	Cycling to Maintain and Improve Fitness: Line-1 Modes of Nuclear Entrance and Retrotransposition. <i>SLAS Discovery</i> , 2018 , 23, 491-494	3.4	0
134	Coupling Yeast Golden Gate and VEGAS for Efficient Assembly of the Violacein Pathway in <i>Saccharomyces cerevisiae</i> . <i>Methods in Molecular Biology</i> , 2018 , 1671, 211-225	1.4	7
133	Rapid and Efficient CRISPR/Cas9-Based Mating-Type Switching of. <i>G3: Genes, Genomes, Genetics</i> , 2018 , 8, 173-183	3.2	16
132	A scalable peptide-GPCR language for engineering multicellular communication. <i>Nature Communications</i> , 2018 , 9, 5057	17.4	18
131	Transcription factor profiling reveals molecular choreography and key regulators of human retrotransposon expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E5526-E5535	11.5	39
130	Precise control of SCRaMbLE in synthetic haploid and diploid yeast. <i>Nature Communications</i> , 2018 , 9, 1933	17.4	74
129	In vitro DNA SCRaMbLE. <i>Nature Communications</i> , 2018 , 9, 1935	17.4	56
128	Heterozygous diploid and interspecies SCRaMbLEing. <i>Nature Communications</i> , 2018 , 9, 1934	17.4	50
127	Dissection of affinity captured LINE-1 macromolecular complexes. <i>ELife</i> , 2018 , 7,	8.9	38
126	Human transposon insertion profiling: Analysis, visualization and identification of somatic LINE-1 insertions in ovarian cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E733-E740	11.5	57
125	Engineering the ribosomal DNA in a megabase synthetic chromosome. <i>Science</i> , 2017 , 355,	33.3	99
124	Design of a synthetic yeast genome. <i>Science</i> , 2017 , 355, 1040-1044	33.3	296
123	3D organization of synthetic and scrambled chromosomes. <i>Science</i> , 2017 , 355,	33.3	73
122	"Perfect" designer chromosome V and behavior of a ring derivative. <i>Science</i> , 2017 , 355,	33.3	124

121	Bug mapping and fitness testing of chemically synthesized chromosome X. <i>Science</i> , 2017 , 355,	33.3	112
120	Deep functional analysis of synII, a 770-kilobase synthetic yeast chromosome. <i>Science</i> , 2017 , 355,	33.3	101
119	Synthesis, debugging, and effects of synthetic chromosome consolidation: synVI and beyond. <i>Science</i> , 2017 , 355,	33.3	115
118	Low escape-rate genome safeguards with minimal molecular perturbation of. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E1470-E1479	11.5	14
117	Structural variants caused by insertions are associated with risks for many human diseases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E3984-E3992	11.5	68
116	Intact piRNA pathway prevents L1 mobilization in male meiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E5635-E5644	11.5	53
115	Whole genome synthesis: from poliovirus to synthetic yeast. <i>Quantitative Biology</i> , 2017 , 5, 105-109	3.9	3
114	New Orthogonal Transcriptional Switches Derived from Tet Repressor Homologues for <i>Saccharomyces cerevisiae</i> Regulated by 2,4-Diacetylphloroglucinol and Other Ligands. <i>ACS Synthetic Biology</i> , 2017 , 6, 497-506	5.7	15
113	Dissecting Nucleosome Function with a Comprehensive Histone H2A and H2B Mutant Library. <i>G3: Genes, Genomes, Genetics</i> , 2017 , 7, 3857-3866	3.2	7
112	Resetting the Yeast Epigenome with Human Nucleosomes. <i>Cell</i> , 2017 , 171, 1508-1519.e13	56.2	20
111	Construction of Comprehensive Dosage-Matching Core Histone Mutant Libraries for. <i>Genetics</i> , 2017 , 207, 1263-1273	4	3
110	Dynamic silencing of somatic L1 retrotransposon insertions reflects the developmental and cellular contexts of their genomic integration. <i>Mobile DNA</i> , 2017 , 8, 8	4.4	6
109	The dynamic landscape of fission yeast meiosis alternative-splice isoforms. <i>Genome Research</i> , 2017 , 27, 145-156	9.7	26
108	A high throughput mutagenic analysis of yeast sumo structure and function. <i>PLoS Genetics</i> , 2017 , 13, e1006612	6	7
107	Msn2/4 regulate expression of glycolytic enzymes and control transition from quiescence to growth. <i>ELife</i> , 2017 , 6,	8.9	34
106	Meeting Report: The Role of the Mobilome in Cancer. <i>Cancer Research</i> , 2016 , 76, 4316-9	10.1	3
105	URI Regulates KAP1 Phosphorylation and Transcriptional Repression via PP2A Phosphatase in Prostate Cancer Cells. <i>Journal of Biological Chemistry</i> , 2016 , 291, 25516-25528	5.4	16
104	BioPartsDB: a synthetic biology workflow web-application for education and research. <i>Bioinformatics</i> , 2016 , 32, 3519-3521	7.2	3

103	Fluorescence ImmunoPrecipitation (FLIP): a Novel Assay for High-Throughput IP. <i>Biological Procedures Online</i> , 2016 , 18, 16	8.3	4
102	GENOME ENGINEERING. The Genome Project-Write. <i>Science</i> , 2016 , 353, 126-7	33.3	138
101	SCRaMble generates designed combinatorial stochastic diversity in synthetic chromosomes. <i>Genome Research</i> , 2016 , 26, 36-49	9.7	78
100	How retrotransposons shape genome regulation. <i>Current Opinion in Genetics and Development</i> , 2016 , 37, 90-100	4.9	102
99	Characterization of L1-Ribonucleoprotein Particles. <i>Methods in Molecular Biology</i> , 2016 , 1400, 311-38	1.4	13
98	Somatic retrotransposition is infrequent in glioblastomas. <i>Mobile DNA</i> , 2016 , 7, 22	4.4	12
97	BioPartsBuilder: a synthetic biology tool for combinatorial assembly of biological parts. <i>Bioinformatics</i> , 2016 , 32, 937-9	7.2	12
96	Barcode Sequencing Screen Identifies SUB1 as a Regulator of Yeast Pheromone Inducible Genes. <i>G3: Genes, Genomes, Genetics</i> , 2016 , 6, 881-92	3.2	4
95	Mechanistic analysis of ghrelin-O-acyltransferase using substrate analogs. <i>Bioorganic Chemistry</i> , 2015 , 62, 64-73	5.1	12
94	H3K36 methylation promotes longevity by enhancing transcriptional fidelity. <i>Genes and Development</i> , 2015 , 29, 1362-76	12.6	138
93	Versatile genetic assembly system (VEGAS) to assemble pathways for expression in <i>S. cerevisiae</i> . <i>Nucleic Acids Research</i> , 2015 , 43, 6620-30	20.1	78
92	Yeast Golden Gate (yGG) for the Efficient Assembly of <i>S. cerevisiae</i> Transcription Units. <i>ACS Synthetic Biology</i> , 2015 , 4, 853-9	5.7	57
91	Freedom and Responsibility in Synthetic Genomics: The Synthetic Yeast Project. <i>Genetics</i> , 2015 , 200, 1021-8	4	25
90	Much ado about zero. <i>Cell</i> , 2015 , 163, 534-5	56.2	2
89	Retrotransposon insertions in the clonal evolution of pancreatic ductal adenocarcinoma. <i>Nature Medicine</i> , 2015 , 21, 1060-4	50.5	97
88	qPCRTag Analysis--A High Throughput, Real Time PCR Assay for Sc2.0 Genotyping. <i>Journal of Visualized Experiments</i> , 2015 , e52941	1.6	5
87	Development of a Tightly Controlled Off Switch for <i>Saccharomyces cerevisiae</i> Regulated by Camphor, a Low-Cost Natural Product. <i>G3: Genes, Genomes, Genetics</i> , 2015 , 5, 1983-90	3.2	16
86	Interplay between histone H3 lysine 56 deacetylation and chromatin modifiers in response to DNA damage. <i>Genetics</i> , 2015 , 200, 185-205	4	22

85	RADOM, an efficient in vivo method for assembling designed DNA fragments up to 10 kb long in <i>Saccharomyces cerevisiae</i> . <i>ACS Synthetic Biology</i> , 2015 , 4, 213-20	5.7	30
84	Intrinsic biocontainment: multiplex genome safeguards combine transcriptional and recombinational control of essential yeast genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 1803-8	11.5	43
83	Characterisation of cytoplasmic DNA complementary to non-retroviral RNA viruses in human cells. <i>Scientific Reports</i> , 2014 , 4, 5074	4.9	27
82	Total synthesis of a functional designer eukaryotic chromosome. <i>Science</i> , 2014 , 344, 55-8	33.3	360
81	Long interspersed element-1 protein expression is a hallmark of many human cancers. <i>American Journal of Pathology</i> , 2014 , 184, 1280-6	5.8	158
80	High-temporal-resolution view of transcription and chromatin states across distinct metabolic states in budding yeast. <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 854-63	17.6	55
79	Human Genomics. Sleeping dogs of the genome. <i>Science</i> , 2014 , 346, 1187-8	33.3	35
78	Circular permutation of a synthetic eukaryotic chromosome with the telomerasome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 17003-10	11.5	13
77	Expression and detection of LINE-1 ORF-encoded proteins. <i>Mobile Genetic Elements</i> , 2014 , 4, e29319		24
76	Affinity proteomics reveals human host factors implicated in discrete stages of LINE-1 retrotransposition. <i>Cell</i> , 2013 , 155, 1034-48	56.2	133
75	TE-array--a high throughput tool to study transposon transcription. <i>BMC Genomics</i> , 2013 , 14, 869	4.5	11
74	Multichange isothermal mutagenesis: a new strategy for multiple site-directed mutations in plasmid DNA. <i>ACS Synthetic Biology</i> , 2013 , 2, 473-7	5.7	38
73	Controlled insertional mutagenesis using a LINE-1 (ORFeus) gene-trap mouse model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2706-13	11.5	19
72	tRNA genes rapidly change in evolution to meet novel translational demands. <i>ELife</i> , 2013 , 2, e01339	8.9	58
71	Active transposition in genomes. <i>Annual Review of Genetics</i> , 2012 , 46, 651-75	14.5	263
70	Poly(A) binding protein C1 is essential for efficient L1 retrotransposition and affects L1 RNP formation. <i>Molecular and Cellular Biology</i> , 2012 , 32, 4323-36	4.8	46
69	Human transposon tectonics. <i>Cell</i> , 2012 , 149, 740-52	56.2	211
68	The <i>Saccharomyces cerevisiae</i> SCRaMBLE system and genome minimization. <i>Bioengineered</i> , 2012 , 3, 168-74	5.1	50

67	Novel transcript truncating function of Rap1p revealed by synthetic codon-optimized Ty1 retrotransposon. <i>Genetics</i> , 2012 , 190, 523-35	4	10
66	Assembling large DNA segments in yeast. <i>Methods in Molecular Biology</i> , 2012 , 852, 133-50	1.4	23
65	Design-A-Gene with GeneDesign. <i>Methods in Molecular Biology</i> , 2012 , 852, 235-47	1.4	6
64	Synthetic chromosome arms function in yeast and generate phenotypic diversity by design. <i>Nature</i> , 2011 , 477, 471-6	50.4	279
63	Characterization of a synthetic human LINE-1 retrotransposon ORFeus-Hs. <i>Mobile DNA</i> , 2011 , 2, 2	4.4	47
62	Effect of reverse transcriptase inhibitors on LINE-1 and Ty1 reverse transcriptase activities and on LINE-1 retrotransposition. <i>BMC Biochemistry</i> , 2011 , 12, 18	4.8	80
61	Characterization of L1 retrotransposition with high-throughput dual-luciferase assays. <i>Nucleic Acids Research</i> , 2011 , 39, e16	20.1	66
60	An evolutionarily 'young' lysine residue in histone H3 attenuates transcriptional output in <i>Saccharomyces cerevisiae</i> . <i>Genes and Development</i> , 2011 , 25, 1306-19	12.6	19
59	Real-time imaging and quantification of p300/CBP acetyltransferase inhibition using a FRET-based reporter in living mammalian cells. <i>FASEB Journal</i> , 2011 , 25, 896.3	0.9	
58	GeneDesign 3.0 is an updated synthetic biology toolkit. <i>Nucleic Acids Research</i> , 2010 , 38, 2603-6	20.1	49
57	Silent information regulator 3: the Goldilocks of the silencing complex. <i>Genes and Development</i> , 2010 , 24, 115-22	12.6	46
56	Mobile interspersed repeats are major structural variants in the human genome. <i>Cell</i> , 2010 , 141, 1171-82	56.2	211
55	Automated Design of Assemblable, Modular, Synthetic Chromosomes. <i>Lecture Notes in Computer Science</i> , 2010 , 280-289	0.9	2
54	Teaching synthetic biology, bioinformatics and engineering to undergraduates: the interdisciplinary Build-a-Genome course. <i>Genetics</i> , 2009 , 181, 13-21	4	48
53	Probing nucleosome function: a highly versatile library of synthetic histone H3 and H4 mutants. <i>Cell</i> , 2008 , 134, 1066-78	56.2	157
52	Orientation-dependent regulation of integrated HIV-1 expression by host gene transcriptional readthrough. <i>Cell Host and Microbe</i> , 2008 , 4, 134-46	23.4	166
51	Histone H3 K56 hyperacetylation perturbs replisomes and causes DNA damage. <i>Genetics</i> , 2008 , 179, 1769-84	60	
50	Compensatory interactions between Sir3p and the nucleosomal LRS surface imply their direct interaction. <i>PLoS Genetics</i> , 2008 , 4, e1000301	6	32

49	Conditional activation of a single-copy L1 transgene in mice by Cre. <i>Genesis</i> , 2008 , 46, 373-83	1.9	26
48	dSLAM analysis of genome-wide genetic interactions in <i>Saccharomyces cerevisiae</i> . <i>Methods</i> , 2007 , 41, 206-21	4.6	50
47	The sirtuins hst3 and Hst4p preserve genome integrity by controlling histone h3 lysine 56 deacetylation. <i>Current Biology</i> , 2006 , 16, 1280-9	6.3	244
46	Active retrotransposition by a synthetic L1 element in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 18662-7	11.5	98
45	GeneDesign: rapid, automated design of multikilobase synthetic genes. <i>Genome Research</i> , 2006 , 16, 550-67	9.7	100
44	Transposon insertion site profiling chip (TIP-chip). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 17632-7	11.5	36
43	A DNA integrity network in the yeast <i>Saccharomyces cerevisiae</i> . <i>Cell</i> , 2006 , 124, 1069-81	56.2	456
42	Insights into the role of histone H3 and histone H4 core modifiable residues in <i>Saccharomyces cerevisiae</i> . <i>Molecular and Cellular Biology</i> , 2005 , 25, 10060-70	4.8	179
41	Regulated nucleosome mobility and the histone code. <i>Nature Structural and Molecular Biology</i> , 2004 , 11, 1037-43	17.6	284
40	A highly active synthetic mammalian retrotransposon. <i>Nature</i> , 2004 , 429, 314-8	50.4	144
39	Transcriptional disruption by the L1 retrotransposon and implications for mammalian transcriptomes. <i>Nature</i> , 2004 , 429, 268-74	50.4	388
38	The unusual phylogenetic distribution of retrotransposons: a hypothesis. <i>Genome Research</i> , 2003 , 13, 1975-83	9.7	48
37	Functional profiling of the <i>Saccharomyces cerevisiae</i> genome. <i>Nature</i> , 2002 , 418, 387-91	50.4	3278
36	Human L1 element target-primed reverse transcription in vitro. <i>EMBO Journal</i> , 2002 , 21, 5899-910	13	365
35	Molecular archeology of L1 insertions in the human genome. <i>Genome Biology</i> , 2002 , 3, research0052	18.3	146
34	Human l1 retrotransposition is associated with genetic instability in vivo. <i>Cell</i> , 2002 , 110, 327-38	56.2	375
33	Target DNA chromatinization modulates nicking by L1 endonuclease. <i>Nucleic Acids Research</i> , 2001 , 29, 573-7	20.1	55
32	A DNA microarray-based genetic screen for nonhomologous end-joining mutants in <i>Saccharomyces cerevisiae</i> . <i>Science</i> , 2001 , 294, 2552-6	33.3	135

31	Transcription. Is S phase important for transcriptional silencing?. <i>Science</i> , 2001 , 291, 608-9	33.3	11
30	Human L1 retrotransposition: cis preference versus trans complementation. <i>Molecular and Cellular Biology</i> , 2001 , 21, 1429-39	4.8	495
29	Frequent human genomic DNA transduction driven by LINE-1 retrotransposition. <i>Genome Research</i> , 2000 , 10, 411-5	9.7	203
28	The yeast retrotransposon Ty5 uses the anticodon stem-loop of the initiator methionine tRNA as a primer for reverse transcription. <i>Rna</i> , 1999 , 5, 929-38	5.8	23
27	The <i>Schizosaccharomyces pombe</i> hst4(+) gene is a SIR2 homologue with silencing and centromeric functions. <i>Molecular Biology of the Cell</i> , 1999 , 10, 3171-86	3.5	61
26	Functional characterization of the <i>S. cerevisiae</i> genome by gene deletion and parallel analysis. <i>Science</i> , 1999 , 285, 901-6	33.3	3254
25	Designer deletion strains derived from <i>Saccharomyces cerevisiae</i> S288C: a useful set of strains and plasmids for PCR-mediated gene disruption and other applications. <i>Yeast</i> , 1998 , 14, 115-32	3.4	2519
24	A hotspot for the <i>Drosophila</i> gypsy retroelement in the ovo locus. <i>Nucleic Acids Research</i> , 1998 , 26, 4019-25	25.1	24
23	Intronic snoRNA biosynthesis in <i>Saccharomyces cerevisiae</i> depends on the lariat-debranching enzyme: intron length effects and activity of a precursor snoRNA. <i>Rna</i> , 1998 , 4, 1096-110	5.8	85
22	Distribution of a limited Sir2 protein pool regulates the strength of yeast rDNA silencing and is modulated by Sir4p. <i>Genetics</i> , 1998 , 149, 1205-19	4	140
21	Designer deletion strains derived from <i>Saccharomyces cerevisiae</i> S288C: A useful set of strains and plasmids for PCR-mediated gene disruption and other applications 1998 , 14, 115		15
20	Human L1 retrotransposon encodes a conserved endonuclease required for retrotransposition. <i>Cell</i> , 1996 , 87, 905-16	56.2	883
19	High frequency retrotransposition in cultured mammalian cells. <i>Cell</i> , 1996 , 87, 917-27	56.2	808
18	A useful colony colour phenotype associated with the yeast selectable/counter-selectable marker MET15. <i>Yeast</i> , 1996 , 12, 939-941	3.4	56
17	Overview: Fusion proteins: Fundamental and therapeutic applications. <i>Expert Opinion on Therapeutic Patents</i> , 1994 , 4, 1037-1051	6.8	1
16	Alu sequences in RMSA-1 protein?. <i>Nature</i> , 1994 , 370, 106	50.4	13
15	Yeast retrotransposon revealed. <i>Nature</i> , 1992 , 358, 717	50.4	68
14	New antiviral strategy using capsid-nuclease fusion proteins. <i>Nature</i> , 1991 , 352, 632-5	50.4	68

13	In vitro mutagenesis and plasmid shuffling: from cloned gene to mutant yeast. <i>Methods in Enzymology</i> , 1991 , 194, 302-18	1.7	499
12	Optical fibers as tetrad dissection needles. <i>Yeast</i> , 1990 , 6, 139-139	3.4	1
11	Transposition of copia elements in Drosophila. <i>Nature</i> , 1988 , 332, 21-2	50.4	3
10	A general method for the chromosomal amplification of genes in yeast. <i>Science</i> , 1988 , 239, 280-2	33.3	114
9	5-Fluoroorotic acid as a selective agent in yeast molecular genetics. <i>Methods in Enzymology</i> , 1987 , 154, 164-75	1.7	1191
8	A positive selection for mutants lacking orotidine-5'-phosphate decarboxylase activity in yeast: 5-fluoro-orotic acid resistance. <i>Molecular Genetics and Genomics</i> , 1984 , 197, 345-6		2069
7	Human to yeast pathway transplantation: cross-species dissection of the adenine de novo pathway regulatory node		3
6	Widespread transcriptional scanning in the testis modulates gene evolution rates		6
5	Synthetic chromosome fusion: effects on genome structure and function		3
4	De novo assembly, delivery and expression of a 101 kb human gene in mouse cells		3
3	Comprehensive scanning mutagenesis of human retrotransposon LINE-1 identifies motifs essential for function		3
2	Pathway engineering in yeast for synthesizing the complex polyketide bikaverin		2
1	LINE-1 Retrotransposon expression in cancerous, epithelial and neuronal cells revealed by 5Esingle cell RNA-Seq		1