

JÃ¼rgen Brosius

List of Publications by Year in descending order

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130
papers

12,825
citations

34105

52
h-index

24258

110
g-index

135
all docs

135
docs citations

135
times ranked

9068
citing authors

#	ARTICLE	IF	CITATIONS
1	Gene organization and primary structure of a ribosomal RNA operon from <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 1981, 148, 107-127.	4.2	1,787
2	Sequence Alignment of the G-Protein Coupled Receptor Superfamily. <i>DNA and Cell Biology</i> , 1992, 11, 1-20.	1.9	873
3	Vectors bearing a hybrid trp-lac promoter useful for regulated expression of cloned genes in <i>Escherichia coli</i> . <i>Gene</i> , 1983, 25, 167-178.	2.2	865
4	Construction and fine mapping of recombinant plasmids containing the rrnB ribosomal RNA operon of <i>E. coli</i> . <i>Plasmid</i> , 1981, 6, 112-118.	1.4	514
5	Plasmid vectors for the selection of promoters. <i>Gene</i> , 1984, 27, 151-160.	2.2	460
6	ATG vectors™ for regulated high-level expression of cloned genes in <i>Escherichia coli</i> . <i>Gene</i> , 1985, 40, 183-190.	2.2	449
7	Secondary structure model for 23S ribosomal RNA. <i>Nucleic Acids Research</i> , 1981, 9, 6167-6189.	14.5	397
8	Identification of 86 candidates for small non-messenger RNAs from the archaeon <i>Archaeoglobus fulgidus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 7536-7541.	7.1	323
9	Retroposed Elements as Archives for the Evolutionary History of Placental Mammals. <i>PLoS Biology</i> , 2006, 4, e91.	5.6	238
10	Evolutionary history of 7SL RNA-derived SINEs in Supraprimates. <i>Trends in Genetics</i> , 2007, 23, 158-161.	6.7	204
11	Translational Machinery in Dendrites of Hippocampal Neurons in Culture. <i>Journal of Neuroscience</i> , 1996, 16, 7171-7181.	3.6	201
12	Binding of L7Ae protein to the K-turn of archaeal snoRNAs: a shared RNA binding motif for C/D and H/ACA box snoRNAs in Archaea. <i>Nucleic Acids Research</i> , 2003, 31, 869-877.	14.5	195
13	rII cistrons of bacteriophage T4. <i>Journal of Molecular Biology</i> , 1981, 149, 337-376.	4.2	187
14	Tracking Marsupial Evolution Using Archaic Genomic Retroposon Insertions. <i>PLoS Biology</i> , 2010, 8, e1000436.	5.6	184
15	Toxicity of an overproduced foreign gene product in <i>Escherichia coli</i> and its use in plasmid vectors for the selection of transcription terminators. <i>Gene</i> , 1984, 27, 161-172.	2.2	183
16	Expression of neural BC200 RNA in human tumours. <i>Journal of Pathology</i> , 1997, 183, 345-351.	4.5	177
17	Mesozoic retroposons reveal parrots as the closest living relatives of passerine birds. <i>Nature Communications</i> , 2011, 2, 443.	12.8	175
18	Deletion of the MBII-85 snoRNA Gene Cluster in Mice Results in Postnatal Growth Retardation. <i>PLoS Genetics</i> , 2007, 3, e235.	3.5	155

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19	Superpolylinkers in Cloning and Expression Vectors. <i>DNA and Cell Biology</i> , 1989, 8, 759-777.	5.2	154
20	Multiple molecular evidences for a living mammalian fossil. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7495-7499.	7.1	141
21	Poly(A)-binding Protein is Associated with Neuronal BC1 and BC200 Ribonucleoprotein Particles. <i>Journal of Molecular Biology</i> , 2002, 321, 433-445.	4.2	140
22	Genomes were forged by massive bombardments with retroelements and retrosequences. <i>Genetica</i> , 1999, 107, 209-238.	1.1	136
23	Alu-SINE Exonization: En Route to Protein-Coding Function. <i>Molecular Biology and Evolution</i> , 2005, 22, 1702-1711.	8.9	133
24	Exonization of transposed elements: A challenge and opportunity for evolution. <i>Biochimie</i> , 2011, 93, 1928-1934.	2.6	132
25	Rodent Evolution: Back to the Root. <i>Molecular Biology and Evolution</i> , 2010, 27, 1315-1326.	8.9	131
26	RNomics: identification and function of small, non-messenger RNAs. <i>Current Opinion in Chemical Biology</i> , 2002, 6, 835-843.	6.1	129
27	Experimental RNomics. <i>Current Biology</i> , 2002, 12, 2002-2013.	3.9	127
28	The Contribution of RNAs and Retroposition to Evolutionary Novelty. <i>Genetica</i> , 2003, 118, 99-115.	1.1	125
29	RNomics in Archaea reveals a further link between splicing of archaeal introns and rRNA processing. <i>Nucleic Acids Research</i> , 2002, 30, 921-930.	14.5	124
30	Waste not, want not " transcript excess in multicellular eukaryotes. <i>Trends in Genetics</i> , 2005, 21, 287-288.	6.7	123
31	Inhibitory Effect of Naked Neural BC1 RNA or BC200 RNA on Eukaryotic in vitro Translation Systems is Reversed by Poly(A)-binding Protein (PABP). <i>Journal of Molecular Biology</i> , 2005, 353, 88-103.	4.2	115
32	Identification of differentially expressed small non-protein-coding RNAs in <i>Staphylococcus aureus</i> displaying both the normal and the small-colony variant phenotype. <i>Journal of Molecular Medicine</i> , 2010, 88, 565-575.	3.9	113
33	Retrocopy contributions to the evolution of the human genome. <i>BMC Genomics</i> , 2008, 9, 466.	2.8	93
34	Activity-dependent Regulation of Dendritic BC1 RNA in Hippocampal Neurons in Culture. <i>Journal of Cell Biology</i> , 1998, 141, 1601-1611.	5.2	92
35	Application of housekeeping npcRNAs for quantitative expression analysis of human transcriptome by real-time PCR. <i>Rna</i> , 2010, 16, 450-461.	3.5	90
36	Functional persistence of exonized mammalian-wide interspersed repeat elements (MIRs). <i>Genome Research</i> , 2007, 17, 1139-1145.	5.5	88

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37	Retroposed Elements and Their Flanking Regions Resolve the Evolutionary History of Xenarthran Mammals (Armadillos, Anteaters, and Sloths). <i>Molecular Biology and Evolution</i> , 2007, 24, 2573-2582.	8.9	82
38	Reverse transcriptase: Mediator of genomic plasticity. <i>Virus Genes</i> , 1995, 11, 163-179.	1.6	81
39	Waves of genomic hitchhikers shed light on the evolution of gamebirds (Aves: Galliformes). <i>BMC Evolutionary Biology</i> , 2007, 7, 190.	3.2	81
40	Mosaic retroposon insertion patterns in placental mammals. <i>Genome Research</i> , 2009, 19, 868-875.	5.5	79
41	The primary structure of protein L16 located at the peptidyltransferase center of <i>Escherichia coli</i> ribosomes. <i>FEBS Letters</i> , 1976, 68, 105-109.	2.8	77
42	RNAomics in <i>Drosophila melanogaster</i> : identification of 66 candidates for novel non-messenger RNAs. <i>Nucleic Acids Research</i> , 2003, 31, 2495-2507.	14.5	77
43	Evolution of small nucleolar RNAs in nematodes. <i>Nucleic Acids Research</i> , 2006, 34, 2676-2685.	14.5	74
44	An "internal" signal sequence directs secretion and processing of proinsulin in bacteria. <i>Nature</i> , 1981, 294, 176-178.	27.8	72
45	Neuronal BC1 RNA structure: Evolutionary conversion of a tRNA ^{Ala} domain into an extended stem-loop structure. <i>Rna</i> , 2001, 7, 722-730.	3.5	72
46	On BC1 RNA and the fragile X mental retardation protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 734-739.	7.1	71
47	Neuronal Untranslated BC1 RNA: Targeted Gene Elimination in Mice. <i>Molecular and Cellular Biology</i> , 2003, 23, 6435-6441.	2.3	65
48	From "junk" to Gene: Curriculum vitae of a Primate Receptor Isoform Gene. <i>Journal of Molecular Biology</i> , 2004, 341, 883-886.	4.2	65
49	Retroposed SNOfall—A mammalian-wide comparison of platypus snoRNAs. <i>Genome Research</i> , 2008, 18, 1005-1010.	5.5	62
50	Multiple Lineages of Ancient CR1 Retroposons Shaped the Early Genome Evolution of Amniotes. <i>Genome Biology and Evolution</i> , 2015, 7, 205-217.	2.5	62
51	Genomes were forged by massive bombardments with retroelements and retrosequences. , 2000, , 209-238.		61
52	The contribution of RNAs and retroposition to evolutionary novelties. <i>Genetica</i> , 2003, 118, 99-116.	1.1	58
53	Many G-protein-coupled receptors are encoded by retrogenes. <i>Trends in Genetics</i> , 1999, 15, 304-305.	6.7	56
54	Occurrence of methylated amino acids as N-termini of proteins from <i>Escherichia coli</i> ribosomes. <i>Journal of Molecular Biology</i> , 1977, 111, 173-181.	4.2	55

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55	[41] Compilation of superlinker vectors. <i>Methods in Enzymology</i> , 1992, 216, 469-483.	1.0	55
56	The genome of a Mesozoic paleovirus reveals the evolution of hepatitis B viruses. <i>Nature Communications</i> , 2013, 4, 1791.	12.8	55
57	The BC200 RNA Gene and Its Neural Expression Are Conserved in Anthropeida (Primates). <i>Journal of Molecular Evolution</i> , 1998, 47, 677-685.	1.8	53
58	Retroposon Insertions and the Chronology of Avian Sex Chromosome Evolution. <i>Molecular Biology and Evolution</i> , 2011, 28, 2993-2997.	8.9	53
59	Spatial codes in dendritic BC1 RNA. <i>Journal of Cell Biology</i> , 2006, 175, 427-439.	5.2	52
60	Identification and Characterization of BC1 RNP Particles. <i>DNA and Cell Biology</i> , 1996, 15, 549-559.	1.9	50
61	Exploring Massive Incomplete Lineage Sorting in Arctoids (Laurasiatheria, Carnivora). <i>Molecular Biology and Evolution</i> , 2015, 32, msv188.	8.9	48
62	Retrophylogenomics Place Tarsiers on the Evolutionary Branch of Anthropoids. <i>Scientific Reports</i> , 2013, 3, 1756.	3.3	47
63	The primary structure of the 5S RNA binding protein L18 from <i>Escherichia coli</i> ribosomes. <i>FEBS Letters</i> , 1975, 56, 359-361.	2.8	46
64	Rat Calmodulin cDNA. <i>DNA and Cell Biology</i> , 1987, 6, 267-272.	5.2	45
65	Molecular Cloning and Complete Amino Acid Sequence of AP50, an Assembly Protein Associated with Clathrin-Coated Vesicles. <i>DNA and Cell Biology</i> , 1988, 7, 663-669.	5.2	45
66	A novel web-based TinT application and the chronology of the Primate Alu retroposon activity. <i>BMC Evolutionary Biology</i> , 2010, 10, 376.	3.2	45
67	[4] Plasmids for the selection and analysis of prokaryotic promoters. <i>Methods in Enzymology</i> , 1987, 153, 54-68.	1.0	43
68	Heterodimer SRP9/14 is an integral part of the neural BC200 RNP in primate brain. <i>Neuroscience Letters</i> , 1998, 245, 123-126.	2.1	43
69	Beyond DNA: RNA Editing and Steps Toward Alu Exonization in Primates. <i>Journal of Molecular Biology</i> , 2008, 382, 601-609.	4.2	43
70	Clathrin light chain B: gene structure and neuron-specific splicing. <i>Nucleic Acids Research</i> , 1992, 20, 5097-5103.	14.5	42
71	Identification of Human Autoantigen La/SS-B as BC1/BC200 RNA-Binding Protein. <i>DNA and Cell Biology</i> , 1998, 17, 751-759.	1.9	41
72	A Novel Class of Mammalian-Specific Tailless Retropseudogenes. <i>Genome Research</i> , 2004, 14, 1911-1915.	5.5	41

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73	A Novel Abundant Family of Retroposed Elements (DAS-SINEs) in the Nine-Banded Armadillo (<i>Dasyurus</i>) Tj ETQq1 1 0.784314 39BT /Over	8.9	39
74	Retroposon Insertion Patterns of Neoavian Birds: Strong Evidence for an Extensive Incomplete Lineage Sorting Era. <i>Molecular Biology and Evolution</i> , 2012, 29, 1497-1501.	8.9	39
75	tRNAs in the spotlight during protein biosynthesis. <i>Trends in Biochemical Sciences</i> , 2001, 26, 653-656.	7.5	36
76	Two primate-specific small non-protein-coding RNAs in transgenic mice: neuronal expression, subcellular localization and binding partners. <i>Nucleic Acids Research</i> , 2006, 35, 529-539.	14.5	36
77	Gene duplication and other evolutionary strategies: from the RNA world to the future. <i>Journal of Structural and Functional Genomics</i> , 2003, 3, 1-17.	1.2	33
78	What is an RNA?<i>A top layer for RNA classification</i>. <i>RNA Biology</i> , 2016, 13, 140-144.	3.1	33
79	Evolution, Expression, and Possible Function of a Master Gene for Amplification of an Interspersed Repeated DNA Family in Rodents. <i>Progress in Molecular Biology and Translational Science</i> , 1996, 52, 67-88.	1.9	32
80	RNomenclature. <i>RNA Biology</i> , 2004, 1, 81-83.	3.1	32
81	Genome sequence of the basal haplorrhine primate <i>Tarsius syrichta</i> reveals unusual insertions. <i>Nature Communications</i> , 2016, 7, 12997.	12.8	32
82	Evidence for a Novel Mechanism of Influenza Virus-Induced Type I Interferon Expression by a Defective RNA-Encoded Protein. <i>PLoS Pathogens</i> , 2015, 11, e1004924.	4.7	31
83	Molecular constructivity. <i>Nature</i> , 1993, 365, 102-102.	27.8	30
84	Transmutation of tRNA over time. <i>Nature Genetics</i> , 1999, 22, 8-9.	21.4	29
85	Neuronal BC1 RNA: Intracellular Transport and Activity-Dependent Modulation. <i>Results and Problems in Cell Differentiation</i> , 2001, 34, 129-138.	0.7	29
86	A Universal Method for the Study of CR1 Retroposons in Nonmodel Bird Genomes. <i>Molecular Biology and Evolution</i> , 2012, 29, 2899-2903.	8.9	27
87	Expression of dendritic BC200 RNA, component of a 11.4S ribonucleoprotein particle, is conserved in monkey brain. <i>Neuroscience Letters</i> , 1997, 224, 206-210.	2.1	25
88	Identification of an evolutionarily divergent U11 small nuclear ribonucleoprotein particle in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 9584-9589.	7.1	25
89	Fragment of protein L18 from the <i>Escherichia coli</i> ribosome that contains the 5S RNA binding site. <i>Nucleic Acids Research</i> , 1978, 5, 1753-1766.	14.5	24
90	Automated Scanning for Phylogenetically Informative Transposed Elements in Rodents. <i>Systematic Biology</i> , 2006, 55, 936-948.	5.6	24

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91	The Fragmented Gene. <i>Annals of the New York Academy of Sciences</i> , 2009, 1178, 186-193.	3.8	22
92	Maternal transcription of non-protein coding RNAs from the PWS-critical region rescues growth retardation in mice. <i>Scientific Reports</i> , 2016, 6, 20398.	3.3	22
93	A small RNA in testis and brain: implications for male germ cell development. <i>Journal of Cell Science</i> , 2002, 115, 1243-50.	2.0	20
94	Expression Vectors Employing Lambda-, trp-, lac-, and lpp-Derived Promoters. , 1988, 10, 205-225.		18
95	Molecular Cloning and Characterization of the Mouse Dopamine D ₃ Receptor Gene: An Additional Intron and an mRNA Variant. <i>DNA and Cell Biology</i> , 1995, 14, 485-492.	1.9	18
96	Retroposon Insertions Provide Insights into Deep Lagomorph Evolution. <i>Molecular Biology and Evolution</i> , 2010, 27, 2678-2681.	8.9	17
97	In vivo transcription from deletion mutations introduced near Escherichia coli ribosomal RNA promoter P2. <i>Molecular Genetics and Genomics</i> , 1985, 199, 55-58.	2.4	16
98	Disparity, adaptation, exaptation, bookkeeping, and contingency at the genome level. <i>Paleobiology</i> , 2005, 31, 1-16.	2.0	16
99	How significant is 98.5% 'junk' in mammalian genomes?. <i>Bioinformatics</i> , 2003, 19, ii35-ii35.	4.1	15
100	Neuronal MAP2 mRNA: Species-dependent Differential Dendritic Targeting Competence. <i>Journal of Molecular Biology</i> , 2004, 341, 927-934.	4.2	14
101	Isolation and Posttranscriptional Modification Analysis of Native BC1 RNA from Mouse Brain. <i>RNA Biology</i> , 2007, 4, 11-15.	3.1	14
102	Can ID Repetitive Elements Serve as Cis-acting Dendritic Targeting Elements? An In Vivo Study. <i>PLoS ONE</i> , 2007, 2, e961.	2.5	14
103	BC1 RNA motifs required for dendritic transport in vivo. <i>Scientific Reports</i> , 2016, 6, 28300.	3.3	13
104	De-novo emergence of SINE retroposons during the early evolution of passerine birds. <i>Mobile DNA</i> , 2017, 8, 21.	3.6	13
105	Exaptation at the molecular genetic level. <i>Science China Life Sciences</i> , 2019, 62, 437-452.	4.9	13
106	Eugenicsâ€”evolutionary nonsense?. <i>Nature Genetics</i> , 2000, 25, 253-253.	21.4	12
107	Expression of the Human T-Cell Receptor VÎ²5.3 in Escherichia coli by Thermal Induction of the trc Promoter: Nucleotide Sequence of the lacts Gene. <i>DNA and Cell Biology</i> , 1995, 14, 945-950.	1.9	11
108	Ancestry of the Australian Termitivorous Numbat. <i>Molecular Biology and Evolution</i> , 2013, 30, 1041-1045.	8.9	11

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109	DNA sequences flanking an E. coli insertion element IS2 in a cloned yeast TRP5 gene. <i>Gene</i> , 1982, 17, 223-228.	2.2	10
110	The Persistent Contributions of RNA to Eukaryotic Gen(om)e Architecture and Cellular Function. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014, 6, a016089-a016089.	5.5	10
111	Transcriptional interference by small transcripts in proximal promoter regions. <i>Nucleic Acids Research</i> , 2018, 46, 1069-1088.	14.5	10
112	Sanched PCR: PCR with cDNA coupled to a solid phase. <i>Nucleic Acids Research</i> , 1991, 19, 1350-1350.	14.5	9
113	Murine BC1 RNA in dendritic fields of the retinal inner plexiform layer. <i>Neuroscience Letters</i> , 1992, 141, 136-138.	2.1	9
114	From Eden to a hell of uniformity? directed evolution in humans. <i>BioEssays</i> , 2003, 25, 815-821.	2.5	9
115	Ancient Traces of Tailless Retropseudogenes in Therian Genomes. <i>Genome Biology and Evolution</i> , 2015, 7, 889-900.	2.5	9
116	GPAC—Genome Presence/Absence Compiler: A Web Application to Comparatively Visualize Multiple Genome-Level Changes. <i>Molecular Biology and Evolution</i> , 2015, 32, 275-286.	8.9	9
117	Localization of the Mouse Gene (Bc1) Encoding Neural BC1 RNA Near the Fibroblast Growth Factor 3 Locus (Fgf3) on Distal Chromosome 7. <i>Genomics</i> , 1997, 44, 153-154.	2.9	8
118	Reply to Bagni: On BC1 RNA and the fragile X mental retardation protein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, E29-E29.	7.1	8
119	Does every transcript originate from a gene?. <i>Annals of the New York Academy of Sciences</i> , 2015, 1341, 136-148.	3.8	8
120	The contribution of RNAs and retroposition to evolutionary novelties. <i>Contemporary Issues in Genetics and Evolution</i> , 2003, , 99-116.	0.9	7
121	Does the AD7c-NTP locus encode a protein?. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2005, 1727, 1-4.	2.4	6
122	The Volcano Rabbit in the Phylogenetic Network of Lagomorphs. <i>Genome Biology and Evolution</i> , 2019, 11, 11-16.	2.5	6
123	The IOSa RNA Gene of <i>Thermus thermophilus</i> . <i>DNA Sequence</i> , 1998, 9, 31-35.	0.7	5
124	Enhancer occlusion transcripts regulate the activity of human enhancer domains via transcriptional interference: a computational perspective. <i>Nucleic Acids Research</i> , 2020, 48, 3435-3454.	14.5	5
125	GPR15—C10ORF99 functional pairing initiates colonic Treg homing in amniotes. <i>EMBO Reports</i> , 2022, 23, e53246.	4.5	4
126	EXPRESSION VECTORS EMPLOYING THE trc PROMOTER**This chapter focuses on the trc promoter, and examples given almost exclusively cover trc expression vectors. The citations given here may therefore not necessarily include the first examples of a given vector or process improvement.. , 1999, , 45-64.		2

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127	Familial Alzheimer's mutation: mRNA secondary structure revisited. <i>Neurobiology of Aging</i> , 1992, 13, 449-451.	3.1	1
128	A tRNA Pseudogene in the Archaeon <i>Methanococcus jannaschii</i> . <i>DNA Sequence</i> , 2000, 11, 97-99.	0.7	1
129	Reverse Transcriptase: Mediator of Genomic Plasticity. , 1996, , 91-107.		1
130	Gene duplication and other evolutionary strategies: from the RNA world to the future. , 2003, , 1-17.		0