

Michael Chandler

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.

162
papers

8,925
citations

49
h-index

92
g-index

183
ext. papers

10,380
ext. citations

10.2
avg, IF

5.94
L-index

#	Paper	IF	Citations
162	Response from Varani et al. to "Comment on 'the IS6 family, a clinically important group of insertion sequences including IS26' by Ruth M. Hall".. <i>Mobile DNA</i> , 2022 , 13, 2	4.4	
161	The IS6 family, a clinically important group of insertion sequences including IS26. <i>Mobile DNA</i> , 2021 , 12, 11	4.4	11
160	DNA repair Nonhomologous Recombination: Bacterial Transposons 2021 , 303-312		
159	TnCentral: a Prokaryotic Transposable Element Database and Web Portal for Transposon Analysis. <i>MBio</i> , 2021 , 12, e0206021	7.8	6
158	Toxin-Antitoxin Gene Pairs Found in Tn Family Transposons Appear To Be an Integral Part of the Transposition Module. <i>MBio</i> , 2020 , 11,	7.8	12
157	Detection and Characterization of Transposons in Bacteria. <i>Methods in Molecular Biology</i> , 2020 , 2075, 81-90	1.4	
156	Targeting IS608 transposon integration to highly specific sequences by structure-based transposon engineering. <i>Nucleic Acids Research</i> , 2018 , 46, 4152-4163	20.1	7
155	The Birth and Demise of the IS-IS Composite Transposon: the Vehicle for Transferable Colistin Resistance. <i>MBio</i> , 2018 , 9,	7.8	54
154	A Practical Guide for Comparative Genomics of Mobile Genetic Elements in Prokaryotic Genomes. <i>Methods in Molecular Biology</i> , 2018 , 1704, 213-242	1.4	10
153	Single-strand DNA processing: phylogenomics and sequence diversity of a superfamily of potential prokaryotic HuH endonucleases. <i>BMC Genomics</i> , 2018 , 19, 475	4.5	2
152	Transposons and pathogenicity in : acquisition of murein lytic transglycosylases by Tn enhances subsp. 306 virulence and fitness. <i>PeerJ</i> , 2018 , 6, e6111	3.1	4
151	Unlocking Tn3-family transposase activity in vitro unveils an asymmetric pathway for transposome assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E669-E678	11.5	8
150	The impact of insertion sequences on bacterial genome plasticity and adaptability. <i>Critical Reviews in Microbiology</i> , 2017 , 43, 709-730	7.8	157
149	Known knowns, known unknowns and unknown unknowns in prokaryotic transposition. <i>Current Opinion in Microbiology</i> , 2017 , 38, 171-180	7.9	11
148	A Model for Transposition of the Colistin Resistance Gene mcr-1 by ISAp11. <i>Antimicrobial Agents and Chemotherapy</i> , 2016 , 60, 6973-6976	5.9	107
147	Transposons: Prokaryotic 2016 , 1-9		1
146	Single strand transposition at the host replication fork. <i>Nucleic Acids Research</i> , 2016 , 44, 7866-83	20.1	4

145	Mechanisms of Evolution in High-Consequence Drug Resistance Plasmids. <i>MBio</i> , 2016 , 7,	7.8	32
144	Everyman's Guide to Bacterial Insertion Sequences. <i>Microbiology Spectrum</i> , 2015 , 3, MDNA3-0030-2014	8.9	107
143	Copy-out-Paste-in Transposition of IS911: A Major Transposition Pathway. <i>Microbiology Spectrum</i> , 2015 , 3,	8.9	26
142	piggyBac Transposony 2015 , 873-890		0
141	Sleeping Beauty Transposition 2015 , 851-872		1
140	Retroviral Integrase Structure and DNA Recombination Mechanism 2015 , 1011-1033		
139	Mechanisms of DNA Transposition 2015 , 529-553		6
138	Everyman's Guide to Bacterial Insertion Sequences 2015 , 555-590		8
137	P Transposable Elements in Drosophila and other Eukaryotic Organisms 2015 , 727-752		4
136	The Tn3-family of Replicative Transposons 2015 , 693-726		8
135	Tn7 2015 , 647-667		4
134	The IS 200/IS605 Family and Beel and Pasteur Single-strand Transposition Mechanism 2015 , 609-630		4
133	Insertion Sequence IS26 Reorganizes Plasmids in Clinically Isolated Multidrug-Resistant Bacteria by Replicative Transposition. <i>MBio</i> , 2015 , 6, e00762	7.8	177
132	A TALE of transposition: Tn3-like transposons play a major role in the spread of pathogenicity determinants of <i>Xanthomonas citri</i> and other xanthomonads. <i>MBio</i> , 2015 , 6, e02505-14	7.8	33
131	Bacterial insertion sequences: their genomic impact and diversity. <i>FEMS Microbiology Reviews</i> , 2014 , 38, 865-91	15.1	287
130	The diversity of prokaryotic DDE transposases of the mutator superfamily, insertion specificity, and association with conjugation machineries. <i>Genome Biology and Evolution</i> , 2014 , 6, 260-72	3.9	35
129	ISDra2 transposition in <i>Deinococcus radiodurans</i> is downregulated by TnpB. <i>Molecular Microbiology</i> , 2013 , 88, 443-55	4.1	25
128	Breaking and joining single-stranded DNA: the HUH endonuclease superfamily. <i>Nature Reviews Microbiology</i> , 2013 , 11, 525-38	22.2	158

127	IS200/IS605 family single-strand transposition: mechanism of IS608 strand transfer. <i>Nucleic Acids Research</i> , 2013 , 41, 3302-13	20.1	21
126	Prokaryote genome fluidity: toward a system approach of the mobilome. <i>Methods in Molecular Biology</i> , 2012 , 804, 57-80	1.4	37
125	The emerging diversity of transpososome architectures. <i>Quarterly Reviews of Biophysics</i> , 2012 , 45, 493-521		30
124	Unpacking the Baggage: Origin and Evolution of Giant Viruses 2012 , 203-216		1
123	International Congress on Transposable Elements (ICTE) 2012 in Saint Malo and the sea of TE stories. <i>Mobile DNA</i> , 2012 , 3, 17	4.4	
122	The processing of repetitive extragenic palindromes: the structure of a repetitive extragenic palindrome bound to its associated nuclease. <i>Nucleic Acids Research</i> , 2012 , 40, 9964-79	20.1	27
121	Structuring the bacterial genome: Y1-transposases associated with REP-BIME sequences. <i>Nucleic Acids Research</i> , 2012 , 40, 3596-609	20.1	31
120	ISsaga is an ensemble of web-based methods for high throughput identification and semi-automatic annotation of insertion sequences in prokaryotic genomes. <i>Genome Biology</i> , 2011 , 12, R30	18.3	202
119	Cotranslational control of DNA transposition: a window of opportunity. <i>Molecular Cell</i> , 2011 , 44, 989-96	17.6	20
118	Reconstitution of a functional IS608 single-strand transpososome: role of non-canonical base pairing. <i>Nucleic Acids Research</i> , 2011 , 39, 8503-12	20.1	18
117	DNA recognition and the precleavage state during single-stranded DNA transposition in <i>D. radiodurans</i> . <i>EMBO Journal</i> , 2010 , 29, 3840-52	13	32
116	ISbrowser: an extension of ISfinder for visualizing insertion sequences in prokaryotic genomes. <i>Nucleic Acids Research</i> , 2010 , 38, D62-8	20.1	33
115	Gene exchange and the origin of giant viruses. <i>Intervirology</i> , 2010 , 53, 354-61	2.5	54
114	The arthrobacter arilaitensis Re117 genome sequence reveals its genetic adaptation to the surface of cheese. <i>PLoS ONE</i> , 2010 , 5, e15489	3.7	60
113	Irradiation-induced <i>Deinococcus radiodurans</i> genome fragmentation triggers transposition of a single resident insertion sequence. <i>PLoS Genetics</i> , 2010 , 6, e1000799	6	45
112	Structure, function, and evolution of the <i>Thiomonas</i> spp. genome. <i>PLoS Genetics</i> , 2010 , 6, e1000859	6	101
111	Single-stranded DNA transposition is coupled to host replication. <i>Cell</i> , 2010 , 142, 398-408	56.2	55
110	Route 66: investigations into the organisation and distribution of the IS66 family of prokaryotic insertion sequences. <i>Research in Microbiology</i> , 2010 , 161, 136-43	4	13

109	Integrating prokaryotes and eukaryotes: DNA transposases in light of structure. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2010 , 45, 50-69	8.7	107
108	A model for the molecular organisation of the IS911 transpososome. <i>Mobile DNA</i> , 2010 , 1, 16	4.4	11
107	Alliance of proteomics and genomics to unravel the specificities of Sahara bacterium <i>Deinococcus deserti</i> . <i>PLoS Genetics</i> , 2009 , 5, e1000434	6	128
106	Clamping down on transposon targeting. <i>Cell</i> , 2009 , 138, 621-3	56.2	4
105	The new IS1595 family, its relation to IS1 and the frontier between insertion sequences and transposons. <i>Research in Microbiology</i> , 2009 , 160, 232-41	4	35
104	Resetting the site: redirecting integration of an insertion sequence in a predictable way. <i>Molecular Cell</i> , 2009 , 34, 612-9	17.6	26
103	Phylogenetic evidence for extensive lateral acquisition of cellular genes by Nucleocytoplasmic large DNA viruses. <i>BMC Evolutionary Biology</i> , 2008 , 8, 320	3	93
102	Revised nomenclature for transposable genetic elements. <i>Plasmid</i> , 2008 , 60, 167-73	3.3	143
101	Sub-terminal sequences modulating IS30 transposition in vivo and in vitro. <i>Journal of Molecular Biology</i> , 2008 , 375, 337-52	6.5	16
100	In vitro reconstitution of a single-stranded transposition mechanism of IS608. <i>Molecular Cell</i> , 2008 , 29, 302-12	17.6	57
99	Microbiology: what now?. <i>Research in Microbiology</i> , 2008 , 159, 51-8	4	2
98	Convergent mechanisms of genome evolution of large and giant DNA viruses. <i>Research in Microbiology</i> , 2008 , 159, 325-31	4	27
97	Mechanism of IS200/IS605 family DNA transposases: activation and transposon-directed target site selection. <i>Cell</i> , 2008 , 132, 208-20	56.2	91
96	Bias between the left and right inverted repeats during IS911 targeted insertion. <i>Journal of Bacteriology</i> , 2008 , 190, 6111-8	3.5	9
95	Control of IS911 target selection: how OrfA may ensure IS dispersion. <i>Molecular Microbiology</i> , 2007 , 63, 1701-9	4.1	8
94	Transposition and target specificity of the typical IS30 family element IS1655 from <i>Neisseria meningitidis</i> . <i>Molecular Microbiology</i> , 2007 , 63, 1731-47	4.1	16
93	I am what I eat and I eat what I am: acquisition of bacterial genes by giant viruses. <i>Trends in Genetics</i> , 2007 , 23, 10-5	8.5	105
92	Insertion sequence diversity in archaea. <i>Microbiology and Molecular Biology Reviews</i> , 2007 , 71, 121-57	13.2	112

91	A tale of two oxidation states: bacterial colonization of arsenic-rich environments. <i>PLoS Genetics</i> , 2007 , 3, e53	6	148
90	Microbial genomics. <i>Research in Microbiology</i> , 2007 , 158, 721-3	4	
89	IS911 transpososome assembly as analysed by tethered particle motion. <i>Nucleic Acids Research</i> , 2006 , 34, 4313-23	20.1	35
88	Insertion sequences in prokaryotic genomes. <i>Current Opinion in Microbiology</i> , 2006 , 9, 526-31	7.9	173
87	Truncated forms of IS911 transposase downregulate transposition. <i>Molecular Microbiology</i> , 2006 , 62, 1102-16	4.1	15
86	Active site sharing and subterminal hairpin recognition in a new class of DNA transposases. <i>Molecular Cell</i> , 2005 , 20, 143-54	17.6	59
85	The transpososome: control of transposition at the level of catalysis. <i>Trends in Microbiology</i> , 2005 , 13, 543-9	12.4	39
84	Transposition of ISHp608, member of an unusual family of bacterial insertion sequences. <i>EMBO Journal</i> , 2005 , 24, 3325-38	13	59
83	The helix-turn-helix motif of bacterial insertion sequence IS911 transposase is required for DNA binding. <i>Nucleic Acids Research</i> , 2004 , 32, 1335-44	20.1	29
82	IS911 partial transposition products and their processing by the Escherichia coli RecG helicase. <i>Molecular Microbiology</i> , 2004 , 53, 1021-33	4.1	16
81	Analysis of the N-terminal DNA binding domain of the IS30 transposase. <i>Molecular Microbiology</i> , 2004 , 54, 478-88	4.1	27
80	Requirement of IS911 replication before integration defines a new bacterial transposition pathway. <i>EMBO Journal</i> , 2004 , 23, 3897-906	13	49
79	Functional domains of the IS1 transposase: analysis in vivo and in vitro. <i>Molecular Microbiology</i> , 2004 , 53, 1529-43	4.1	17
78	Host processing of branched DNA intermediates is involved in targeted transposition of IS911. <i>Molecular Microbiology</i> , 2004 , 51, 385-93	4.1	17
77	Regulation of transposition in bacteria. <i>Research in Microbiology</i> , 2004 , 155, 387-98	4	141
76	The genome sequence of the entomopathogenic bacterium <i>Photobacterium luminescens</i> . <i>Nature Biotechnology</i> , 2003 , 21, 1307-13	44.5	485
75	Genome sequence of the plant pathogen <i>Ralstonia solanacearum</i> . <i>Nature</i> , 2002 , 415, 497-502	50.4	716
74	A target specificity switch in IS911 transposition: the role of the OrfA protein. <i>EMBO Journal</i> , 2002 , 21, 4172-82	13	21

73	Diversity of Tn4001 transposition products: the flanking IS256 elements can form tandem dimers and IS circles. <i>Journal of Bacteriology</i> , 2002 , 184, 433-43	3.5	35
72	Characterization of the cts4 repressor mutation in transposable bacteriophage Mu. <i>Research in Microbiology</i> , 2002 , 153, 511-8	4	1
71	Transient promoter formation: a new feedback mechanism for regulation of IS911 transposition. <i>EMBO Journal</i> , 2001 , 20, 5802-11	13	31
70	The terminal inverted repeats of IS911: requirements for synaptic complex assembly and activity. <i>Journal of Molecular Biology</i> , 2001 , 308, 853-71	6.5	31
69	Genome diversity: sources and forces. <i>Current Opinion in Microbiology</i> , 2001 , 4, 547-549	7.9	1
68	The role of tandem IS dimers in IS911 transposition. <i>Molecular Microbiology</i> , 2000 , 35, 1312-25	4.1	21
67	IS911 transposition is regulated by protein-protein interactions via a leucine zipper motif. <i>Journal of Molecular Biology</i> , 2000 , 296, 757-68	6.5	34
66	Playing second fiddle: second-strand processing and liberation of transposable elements from donor DNA. <i>Trends in Microbiology</i> , 2000 , 8, 268-74	12.4	58
65	IS911 transposon circles give rise to linear forms that can undergo integration in vitro. <i>Molecular Microbiology</i> , 1999 , 32, 617-27	4.1	24
64	IS elements as constituents of bacterial genomes. <i>Research in Microbiology</i> , 1999 , 150, 675-87	4	86
63	Oligomeric structure of the repressor of the bacteriophage Mu early operon. <i>FEBS Journal</i> , 1998 , 252, 408-15		9
62	Multiple oligomerisation domains in the IS911 transposase: a leucine zipper motif is essential for activity. <i>Journal of Molecular Biology</i> , 1998 , 283, 29-41	6.5	40
61	Efficient transposition of IS911 circles in vitro. <i>EMBO Journal</i> , 1998 , 17, 1169-81	13	51
60	Insertion sequences. <i>Microbiology and Molecular Biology Reviews</i> , 1998 , 62, 725-74	13.2	1115
59	Assembly of a strong promoter following IS911 circularization and the role of circles in transposition. <i>EMBO Journal</i> , 1997 , 16, 3357-71	13	60
58	IS911-mediated intramolecular transposition is naturally temperature sensitive. <i>Molecular Microbiology</i> , 1997 , 25, 531-40	4.1	26
57	IS911-mediated transpositional recombination in vitro. <i>Journal of Molecular Biology</i> , 1996 , 264, 68-81	6.5	58
56	Interactions between the repressor and the early operator region of bacteriophage Mu. <i>Journal of Biological Chemistry</i> , 1996 , 271, 9739-45	5.4	20

55	Bacterial transposases and retroviral integrases. <i>Molecular Microbiology</i> , 1995 , 15, 13-23	4.1	184
54	Mutual stabilisation of bacteriophage Mu repressor and histone-like proteins in a nucleoprotein structure. <i>Journal of Molecular Biology</i> , 1995 , 249, 332-41	6.5	22
53	Induction of the SOS response by IS1 transposase. <i>Journal of Molecular Biology</i> , 1994 , 242, 339-50	6.5	55
52	Interaction of Fis protein with DNA: bending and specificity of binding. <i>Biochimie</i> , 1994 , 76, 958-67	4.6	35
51	Translational frameshifting in the control of transposition in bacteria. <i>Molecular Microbiology</i> , 1993 , 7, 497-503	4.1	191
50	A simple and efficient system for the construction of phoA gene fusions in gram-negative bacteria. <i>Gene</i> , 1992 , 114, 103-7	3.8	5
49	Escherichia coli integration host factor stabilizes bacteriophage Mu repressor interactions with operator DNA in vitro. <i>Molecular Microbiology</i> , 1992 , 6, 1707-14	4.1	30
48	Programmed translational frameshifting and initiation at an AUU codon in gene expression of bacterial insertion sequence IS911. <i>Journal of Molecular Biology</i> , 1991 , 222, 465-77	6.5	119
47	Transposable elements for efficient manipulation of a wide range of gram-negative bacteria: promoter probes and vectors for foreign genes. <i>Gene</i> , 1989 , 85, 83-9	3.8	18
46	Mapping and regulation of the pifC promoter of the F plasmid. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1988 , 950, 75-80		12
45	Escherichia coli integration host factor binds specifically to the ends of the insertion sequence IS1 and to its major insertion hot-spot in pBR322. <i>Journal of Molecular Biology</i> , 1987 , 195, 261-72	6.5	114
44	Artificial transposable elements in the study of the ends of IS1. <i>Gene</i> , 1987 , 61, 91-101	3.8	22
43	Expression of F transfer functions depends on the Escherichia coli integration host factor. <i>Molecular Genetics and Genomics</i> , 1987 , 207, 302-5		38
42	Phage Mu transposase: deletion of the carboxy-terminal end does not abolish DNA-binding activity. <i>Molecular Genetics and Genomics</i> , 1987 , 210, 77-85		12
41	Replication of pSC101: effects of mutations in the E. coli DNA binding protein IHF. <i>Molecular Genetics and Genomics</i> , 1986 , 204, 85-9		93
40	Functional promoters created by the insertion of transposable element IS1. <i>Journal of Molecular Biology</i> , 1986 , 191, 383-93	6.5	73
39	DNA sequence at the end of IS1 required for transposition. <i>Nature</i> , 1985 , 317, 458-60	50.4	27
38	Specificity of insertion of IS1. <i>Journal of Molecular Biology</i> , 1985 , 185, 517-24	6.5	56

37	Preferential binding of bacteriophage Mu repressor to supercoiled Mu DNA. <i>Plasmid</i> , 1985 , 13, 173-81	3.3	4
36	Studies on the transposition of IS1. <i>Basic Life Sciences</i> , 1985 , 30, 53-77		6
35	Cloning and expression of the phage Mu A gene. <i>Gene</i> , 1984 , 28, 65-72	3.8	12
34	Overinitiation of chromosome and plasmid replication in a dnaAcos mutant of Escherichia coli K12. Evidence for dnaA-dnaB interactions. <i>Journal of Molecular Biology</i> , 1984 , 179, 171-83	6.5	14
33	5 Study of Plasmid Replication in vivo. <i>Methods in Microbiology</i> , 1984 , 17, 97-122	2.8	8
32	Cointegrate formation mediated by Tn9. II. Activity of IS1 is modulated by external DNA sequences. <i>Journal of Molecular Biology</i> , 1983 , 170, 61-91	6.5	114
31	IS1-mediated tandem duplication of plasmid pBR322. Dependence on recA and on DNA polymerase I. <i>Journal of Molecular Biology</i> , 1983 , 165, 183-90	6.5	11
30	A mutant of the plasmid R100.1 capable of producing autonomous circular forms of its resistance determinant. <i>Plasmid</i> , 1982 , 7, 251-62	3.3	5
29	The transposition frequency of IS1-flanked transposons is a function of their size. <i>Journal of Molecular Biology</i> , 1982 , 154, 229-43	6.5	53
28	Structure and stability of Tn9-mediated cointegrates. Evidence for two pathways of transposition. <i>Journal of Molecular Biology</i> , 1982 , 154, 245-72	6.5	79
27	Structure and stability of transposon 5-mediated cointegrates. <i>Journal of Molecular Biology</i> , 1982 , 159, 557-80	6.5	20
26	The structure of R1drd19: a revised physical map of the plasmid. <i>Molecular Genetics and Genomics</i> , 1981 , 181, 183-91		38
25	The initiation of chromosome replication in a dnaA _{ts46} and a dnaA ⁺ strain at various temperatures. <i>Molecular Genetics and Genomics</i> , 1981 , 182, 364-6		22
24	Isolation of an IS1 flanked kanamycin resistance transposon from R1drd19. <i>Molecular Genetics and Genomics</i> , 1980 , 180, 123-7		20
23	Production of extrachromosomal r-determinant circles from integrated R100.1: involvement of the E. coli recombination system. <i>Molecular Genetics and Genomics</i> , 1980 , 179, 565-71		13
22	Tn10 mediated integration of the plasmid R100.1 into the bacterial chromosome: inverse transposition. <i>Molecular Genetics and Genomics</i> , 1979 , 173, 23-30		36
21	The effects of an Escherichia coli dnaA _{ts} mutation on the replication of the plasmids colE1 pSC101, R100.1 and RTF-TC. <i>Molecular Genetics and Genomics</i> , 1979 , 174, 117-26		74
20	The construction and replication properties of hybrid plasmids composed of the r-determinant of R100.1 and the plasmids pCRI and pSC201. <i>Molecular Genetics and Genomics</i> , 1979 , 168, 337-40		8

19	Some properties of the chloramphenicol resistance transposon Tn9. <i>Molecular Genetics and Genomics</i> , 1979 , 176, 221-31	36
18	Involvement of IS1 in the dissociation of the r-determinant and RTF components of the plasmid R100.1. <i>Molecular Genetics and Genomics</i> , 1977 , 153, 289-95	46
17	Replication of prophage P1 during the cell cycle of Escherichia coli. <i>Molecular Genetics and Genomics</i> , 1977 , 152, 71-6	94
16	Mapping of the drug resistance genes carried by the r-determinant of the R100.1 plasmid. <i>Molecular Genetics and Genomics</i> , 1977 , 157, 17-23	35
15	Chromosome replication in an Hfr strain of Escherichia coli. <i>Journal of Molecular Biology</i> , 1976 , 104, 517-83	16
14	The effect of gene concentration and relative gene dosage on gene output in Escherichia coli. <i>Molecular Genetics and Genomics</i> , 1975 , 138, 127-41	74
13	Independence of F replication and chromosome replication in Escherichia coli. <i>Molecular Genetics and Genomics</i> , 1975 , 138, 143-55	60
12	The replication time of the Escherichia coli K12 chromosome as a function of cell doubling time. <i>Journal of Molecular Biology</i> , 1975 , 94, 127-32	6.5 70
11	Nonhomologous Recombination36-66	2
10	A Moveable Feast: An Introduction to Mobile DNA1-39	2
9	Serine Resolvases237-252	1
8	Copy-out/Insertion Transposition of IS911: A Major Transposition Pathway591-607	1
7	Transposable Phage Mu669-691	5
6	Mariner and the ITm Superfamily of Transposons753-772	2
5	Mutator and MULE Transposons801-826	2
4	Helitrons, the Eukaryotic Rolling-circle Transposable Elements891-924	6
3	DNA Transposition1	
2	hATTransposable Elements773-800	1

1 Prokaryotic DNA Transposons: Classes and Mechanism 1-16

1