Phoebe A Rice

List of Publications by Citations

107 papers	3,784 citations	25 h-index	61 g-index
117 ext. papers	4,294 ext. citations	13.9 avg, IF	5.34 L-index

#	Paper	IF	Citations
107	Crystal structure of an IHF-DNA complex: a protein-induced DNA U-turn. *Cell*, **1996**, 87, 1295-306	56.2	688
106	Mechanisms of site-specific recombination. *Annual Review of Biochemistry*, **2006**, 75, 567-605	29.1	581
105	IHF and HU: flexible architects of bent DNA. *Current Opinion in Structural Biology*, **2004**, 14, 28-35	8.1	308
104	A G-quadruplex-containing RNA activates fluorescence in a GFP-like fluorophore. *Nature Chemical Biology*, **2014**, 10, 686-91	11.7	213
103	Structure of the bacteriophage Mu transposase core: a common structural motif for DNA transposition and retroviral integration. *Cell*, **1995**, 82, 209-20	56.2	208
102	Flexible DNA bending in HU-DNA cocrystal structures. *EMBO Journal*, **2003**, 22, 3749-60	13	205
101	Comparative architecture of transposase and integrase complexes. *Nature Structural Biology*, **2001**, 8, 302-7		150
100	The crystal structure of the catalytic domain of the site-specific recombination enzyme gamma delta resolvase at 2.7 A resolution. *Cell*, **1990**, 63, 1323-9	56.2	110
99	The Tn*7* transpososome structure sheds light on DDE recombinase evolution. *Nature*, **2012**, 491, 413-7	50.4	99
98	Crystal structure of the Varkud satellite ribozyme. *Nature Chemical Biology*, **2015**, 11, 840-6	11.7	83
97	Cooperativity mutants of the gamma delta resolvase identify an essential interdimer interaction. *Cell*, **1990**, 63, 1331-8	56.2	81
96	Structure-based analysis of HU-DNA binding. *Journal of Molecular Biology*, **2007**, 365, 1005-16	6.5	77
95	Integration host factor: putting a twist on protein-DNA recognition. *Journal of Molecular Biology*, **2003**, 330, 493-502	6.5	63
94	Shaping the Borrelia burgdorferi genome: crystal structure and binding properties of the DNA-bending protein Hbb. *Molecular Microbiology*, **2007**, 63, 1319-30	4.1	60
93	Architecture of a serine recombinase-DNA regulatory complex. *Molecular Cell*, **2008**, 30, 145-55	17.6	53
92	Moving DNA around: DNA transposition and retroviral integration. *Current Opinion in Structural Biology*, **2011**, 21, 370-8	8.1	48
91	Structural plasticity of the Flp-Holliday junction complex. *Journal of Molecular Biology*, **2003**, 326, 425-34	6.5	42

90	The role of the conserved Trp330 in Flp-mediated recombination. Functional and structural analysis. *Journal of Biological Chemistry*, **2003**, 278, 24800-7	5.4	36
89	ABHD10 is an S-depalmitoylase affecting redox homeostasis through peroxiredoxin-5. *Nature Chemical Biology*, **2019**, 15, 1232-1240	11.7	36
88	Roles of two large serine recombinases in mobilizing the methicillin-resistance cassette SCCmec. *Molecular Microbiology*, **2013**, 88, 1218-29	4.1	35
87	Structural basis for catalytic activation of a serine recombinase. *Structure*, **2011**, 19, 799-809	5.2	34
86	A proposed mechanism for IS607-family serine transposases. *Mobile DNA*, **2013**, 4, 24	4.4	30
85	Automated real-space refinement of protein structures using a realistic backbone move set. *Biophysical Journal*, **2011**, 101, 899-909	2.9	26
84	Regulatory mutations in Sin recombinase support a structure-based model of the synaptosome. *Molecular Microbiology*, **2009**, 74, 282-98	4.1	26
83	Arginine as a general acid catalyst in serine recombinase-mediated DNA cleavage. *Journal of Biological Chemistry*, **2013**, 288, 29206-14	5.4	24
82	Identification of a potential general acid/base in the reversible phosphoryl transfer reactions catalyzed by tyrosine recombinases: Flp H305. *Chemistry and Biology*, **2007**, 14, 121-9		24
81	Staphylococcal SCCmec elements encode an active MCM-like helicase and thus may be replicative. *Nature Structural and Molecular Biology*, **2016**, 23, 891-898	17.6	22
80	Mapping the transition state for DNA bending by IHF. *Journal of Molecular Biology*, **2012**, 418, 300-15	6.5	22
79	Transposable phages, DNA reorganization and transfer. *Current Opinion in Microbiology*, **2017**, 38, 88-94	7.9	21
78	Protein binding has a large effect on radical mediated DNA damage. *Journal of the American Chemical Society*, **2008**, 130, 12890-1	16.4	20
77	Binding then bending: a mechanism for wrapping DNA. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 19217-8	11.5	19
76	Serine Resolvases. *Microbiology Spectrum*, **2015**, 3, MDNA3-0045-2014	8.9	15
75	Sin resolvase catalytic activity and oligomerization state are tightly coupled. *Journal of Molecular Biology*, **2010**, 404, 16-33	6.5	14
74	Orchestrating serine resolvases. *Biochemical Society Transactions*, **2010**, 38, 384-7	5.1	14
73	Comment on "RNA-guided DNA insertion with CRISPR-associated transposases". *Science*, **2020**, 368,	33.3	12

72	Target DNA bending by the Mu transpososome promotes careful transposition and prevents its reversal. *ELife*, **2017**, 6,	8.9	12
71	Characterizing Watson-Crick versus Hoogsteen Base Pairing in a DNA-Protein Complex Using Nuclear Magnetic Resonance and Site-Specifically C- and N-Labeled DNA. *Biochemistry*, **2019**, 58, 1963-1974	3.2	11
70	The Influence of LINE-1 and SINE Retrotransposons on Mammalian Genomes **2015**, 1165-1208		11
69	Binding and catalytic contributions to site recognition by flp recombinase. *Journal of Biological Chemistry*, **2008**, 283, 11414-23	5.4	10
68	Target highlights in CASP13: Experimental target structures through the eyes of their authors. *Proteins: Structure, Function and Bioinformatics*, **2019**, 87, 1037-1057	4.2	9
67	A conserved RNA structural motif for organizing topology within picornaviral internal ribosome entry sites. *Nature Communications*, **2019**, 10, 3629	17.4	9
66	Inter-subunit interactions that coordinate Rad51's activities. *Nucleic Acids Research*, **2009**, 37, 557-67	20.1	9
65	Deciphering the Roles of Multicomponent Recognition Signals by the AAA+ Unfoldase ClpX. *Journal of Molecular Biology*, **2015**, 427, 2966-82	6.5	8
64	Everyman's Guide to Bacterial Insertion Sequences **2015**, 555-590		8
63	The Tn3-family of Replicative Transposons **2015**, 693-726		8
62	Mobile Bacterial Group II Introns at the Crux of Eukaryotic Evolution **2015**, 1209-1236		8
61	Phage-encoded Serine Integrases and Other Large Serine Recombinases253-272		8
60	Static Kinks or Flexible Hinges: Multiple Conformations of Bent DNA Bound to Integration Host Factor Revealed by Fluorescence Lifetime Measurements. *Journal of Physical Chemistry B*, **2018**, 122, 11519-11534	3.4	8
59	Two-step interrogation then recognition of DNA binding site by Integration Host Factor: an architectural DNA-bending protein. *Nucleic Acids Research*, **2018**, 46, 1741-1755	20.1	7
58	Global analysis of ion dependence unveils hidden steps in DNA binding and bending by integration host factor. *Journal of Chemical Physics*, **2013**, 139, 121927	3.9	7
57	Mechanisms of DNA Transposition **2015**, 529-553		6
56	Control of transposase activity within a transpososome by the configuration of the flanking DNA segment of the transposon. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 14622-7	11.5	6
55	Visualizing Mu transposition: assembling the puzzle pieces. *Genes and Development*, **2005**, 19, 773-5	12.6	6

54	Helitrons, the Eukaryotic Rolling-circle Transposable Elements891-924		6
53	Mammalian Endogenous Retroviruses **2015**, 1079-1100		5
52	Transposable Phage Mu669-691		5
51	Integration, Regulation, and Long-Term Stability of R2 Retrotransposons **2015**, 1125-1146		4
50	P Transposable Elements in Drosophila and other Eukaryotic Organisms **2015**, 727-752		4
49	Tn7 **2015**, 647-667		4
48	The IS 200/IS605 Family and Peel and Paste Single-strand Transposition Mechanism **2015**, 609-630		4
47	The Serine Recombinases73-89		4
46	Ty3, a Position-specific Retrotransposon in Budding Yeast965-996		4
45	Diversity-generating Retroelements in Phage and Bacterial Genomes1237-1252		4
44	The Integron: Adaptation On Demand139-161		4
43	Snapshots of a molecular swivel in action. *Nucleic Acids Research*, **2018**, 46, 5286-5296	20.1	3
42	Mu transpososome activity-profiling yields hyperactive MuA variants for highly efficient genetic and genome engineering. *Nucleic Acids Research*, **2018**, 46, 4649-4661	20.1	3
41	Cre Recombinase **2015**, 119-138		3
40	Adeno-associated Virus as a Mammalian DNA Vector **2015**, 827-849		2
39	The Integrase Site-specific Recombination Pathway **2015**, 91-118		2
38	The Long Terminal Repeat Retrotransposons Tf1 and Tf2 of Schizosaccharomyces pombe **2015**, 997-1010		2
37	Tyrosine Recombinase Retrotransposons and Transposons **2015**, 1271-1291		2

36	vls Antigenic Variation Systems of Lyme Disease Borrelia: Eluding Host Immunity through both Random, Segmental Gene Conversion and Framework Heterogeneity **2015**, 471-489		2
35	A Moveable Feast: An Introduction to Mobile DNA1-39		2
34	V(D)J Recombination: Mechanism, Errors, and Fidelity311-324		2
33	Mariner and the ITm Superfamily of Transposons753-772		2
32	Mutator and MULE Transposons801-826		2
31	Host Factors in Retroviral Integration and the Selection of Integration Target Sites1035-1050		2
30	Site-specific DNA Inversion by Serine Recombinases199-236		2
29	An Overview of Tyrosine Site-specific Recombination: From an Flp Perspective41-71		2
28	Xer Site-Specific Recombination: Promoting Vertical and Horizontal Transmission of Genetic Information163-182		2
27	Mobile genetic elements: in silico, in vitro, in vivo. *Molecular Ecology*, **2016**, 25, 1027-31	5.7	1
26	Sleeping Beauty Transposition **2015**, 851-872		1
25	Mobile DNA in the Pathogenic Neisseria **2015**, 451-469		1
24	Site-specific non-LTR retrotransposons **2015**, 1147-1163		1
23	An Unexplored Diversity of Reverse Transcriptases in Bacteria **2015**, 1253-1269		1
22	Serine Resolvases237-252		1
21	Programmed Genome Rearrangements in Tetrahymena349-367		1
20	Recombination and Diversification of the Variant Antigen Encoding Genes in the Malaria Parasite Plasmodium falciparum437-449		1
19	Copy-out-Paste-in Transposition of IS911: A Major Transposition Pathway591-607		1

[-]

18	Transposons Tn10 and Tn5631-645		1
17	hATTransposable Elements773-800		1
16	Related Mechanisms of Antibody Somatic Hypermutation and Class Switch Recombination325-348		1
15	Reverse Transcription of Retroviruses and LTR Retrotransposons1051-1077		1
14	A Unique DNA Recombination Mechanism of the Mating/Cell-type Switching of Fission Yeasts: a Review515-528		1
13	Structure of the P element transpososome reveals new twists on the DD(E/D) theme. *Nature Structural and Molecular Biology*, **2019**, 26, 989-990	17.6	0
12	piggyBac Transposony **2015**, 873-890		0
11	Biology of Three ICE Families: SXT/R391, ICEBs1, and ICESt1/ICESt3 **2015**, 289-309		0
10	Programmed Rearrangement in Ciliates: Paramecium369-388		0
9	Programmed Genome Rearrangements in the CiliateOxytricha389-407		0
8	DNA Recombination Strategies During Antigenic Variation in the African Trypanosome409-435		0
7	The protein-protein interactions required for assembly of the Tn3 resolution synapse. *Molecular Microbiology*, **2020**, 114, 952-965	4.1	0
6	Retroviral Integrase Structure and DNA Recombination Mechanism **2015**, 1011-1033		
5	Retroviral DNA Transposition: Themes and Variations1101-1123		
4	The Integration and Excision of CTnDOT183-198		
3	Hairpin Telomere Resolvases273-287		
2	Mating-type Gene Switching inSaccharomyces cerevisiae491-514		
1	The Ty1 LTR-Retrotransposon of Budding Yeast, Saccharomyces cerevisiae925-964		