

# Phoebe A Rice

## 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.

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	Comment on "RNA-guided DNA insertion with CRISPR-associated transposases". <i>Science</i> , <b>2020</b> , 368,	33.3	12
106	The protein-protein interactions required for assembly of the Tn3 resolution synapse. <i>Molecular Microbiology</i> , <b>2020</b> , 114, 952-965	4.1	0
105	Target highlights in CASP13: Experimental target structures through the eyes of their authors. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2019</b> , 87, 1037-1057	4.2	9
104	Characterizing Watson-Crick versus Hoogsteen Base Pairing in a DNA-Protein Complex Using Nuclear Magnetic Resonance and Site-Specifically C- and N-Labeled DNA. <i>Biochemistry</i> , <b>2019</b> , 58, 1963-1974	3.2	11
103	A conserved RNA structural motif for organizing topology within picornaviral internal ribosome entry sites. <i>Nature Communications</i> , <b>2019</b> , 10, 3629	17.4	9
102	Structure of the P element transpososome reveals new twists on the DD(E/D) theme. <i>Nature Structural and Molecular Biology</i> , <b>2019</b> , 26, 989-990	17.6	0
101	ABHD10 is an S-depalmitoylase affecting redox homeostasis through peroxiredoxin-5. <i>Nature Chemical Biology</i> , <b>2019</b> , 15, 1232-1240	11.7	36
100	Snapshots of a molecular swivel in action. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 5286-5296	20.1	3
99	Two-step interrogation then recognition of DNA binding site by Integration Host Factor: an architectural DNA-bending protein. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 1741-1755	20.1	7
98	Mu transpososome activity-profiling yields hyperactive MuA variants for highly efficient genetic and genome engineering. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 4649-4661	20.1	3
97	Static Kinks or Flexible Hinges: Multiple Conformations of Bent DNA Bound to Integration Host Factor Revealed by Fluorescence Lifetime Measurements. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 11519-11534	3.4	8
96	Transposable phages, DNA reorganization and transfer. <i>Current Opinion in Microbiology</i> , <b>2017</b> , 38, 88-94	7.9	21
95	Target DNA bending by the Mu transpososome promotes careful transposition and prevents its reversal. <i>ELife</i> , <b>2017</b> , 6,	8.9	12
94	Staphylococcal SCCmec elements encode an active MCM-like helicase and thus may be replicative. <i>Nature Structural and Molecular Biology</i> , <b>2016</b> , 23, 891-898	17.6	22
93	Mobile genetic elements: in silico, in vitro, in vivo. <i>Molecular Ecology</i> , <b>2016</b> , 25, 1027-31	5.7	1
92	Deciphering the Roles of Multicomponent Recognition Signals by the AAA+ Unfoldase ClpX. <i>Journal of Molecular Biology</i> , <b>2015</b> , 427, 2966-82	6.5	8
91	Crystal structure of the Varkud satellite ribozyme. <i>Nature Chemical Biology</i> , <b>2015</b> , 11, 840-6	11.7	83

90	Serine Resolvases. <i>Microbiology Spectrum</i> , <b>2015</b> , 3, MDNA3-0045-2014	8.9	15
89	Adeno-associated Virus as a Mammalian DNA Vector <b>2015</b> , 827-849		2
88	piggyBac Transposony <b>2015</b> , 873-890		0
87	The Integrase Site-specific Recombination Pathway <b>2015</b> , 91-118		2
86	Integration, Regulation, and Long-Term Stability of R2 Retrotransposons <b>2015</b> , 1125-1146		4
85	Sleeping Beauty Transposition <b>2015</b> , 851-872		1
84	Retroviral Integrase Structure and DNA Recombination Mechanism <b>2015</b> , 1011-1033		
83	Cre Recombinase <b>2015</b> , 119-138		3
82	The Long Terminal Repeat Retrotransposons Tf1 and Tf2 of <i>Schizosaccharomyces pombe</i> <b>2015</b> , 997-1010		2
81	Biology of Three ICE Families: SXT/R391, ICEBs1, and ICESt1/ICESt3 <b>2015</b> , 289-309		0
80	Mechanisms of DNA Transposition <b>2015</b> , 529-553		6
79	Everyman's Guide to Bacterial Insertion Sequences <b>2015</b> , 555-590		8
78	P Transposable Elements in <i>Drosophila</i> and other Eukaryotic Organisms <b>2015</b> , 727-752		4
77	Mammalian Endogenous Retroviruses <b>2015</b> , 1079-1100		5
76	Tyrosine Recombinase Retrotransposons and Transposons <b>2015</b> , 1271-1291		2
75	Mobile DNA in the Pathogenic <i>Neisseria</i> <b>2015</b> , 451-469		1
74	The Tn3-family of Replicative Transposons <b>2015</b> , 693-726		8
73	The Influence of LINE-1 and SINE Retrotransposons on Mammalian Genomes <b>2015</b> , 1165-1208		11

72	vls Antigenic Variation Systems of Lyme Disease <i>Borrelia</i> : Eluding Host Immunity through both Random, Segmental Gene Conversion and Framework Heterogeneity <b>2015</b> , 471-489		2
71	Site-specific non-LTR retrotransposons <b>2015</b> , 1147-1163		1
70	Mobile Bacterial Group II Introns at the Crux of Eukaryotic Evolution <b>2015</b> , 1209-1236		8
69	Tn7 <b>2015</b> , 647-667		4
68	An Unexplored Diversity of Reverse Transcriptases in Bacteria <b>2015</b> , 1253-1269		1
67	The IS 200/IS605 Family and Beel and Pasteur Single-strand Transposition Mechanism <b>2015</b> , 609-630		4
66	A G-quadruplex-containing RNA activates fluorescence in a GFP-like fluorophore. <i>Nature Chemical Biology</i> , <b>2014</b> , 10, 686-91	11.7	213
65	Global analysis of ion dependence unveils hidden steps in DNA binding and bending by integration host factor. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 121927	3.9	7
64	A proposed mechanism for IS607-family serine transposases. <i>Mobile DNA</i> , <b>2013</b> , 4, 24	4.4	30
63	Arginine as a general acid catalyst in serine recombinase-mediated DNA cleavage. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 29206-14	5.4	24
62	Roles of two large serine recombinases in mobilizing the methicillin-resistance cassette SCCmec. <i>Molecular Microbiology</i> , <b>2013</b> , 88, 1218-29	4.1	35
61	Mapping the transition state for DNA bending by IHF. <i>Journal of Molecular Biology</i> , <b>2012</b> , 418, 300-15	6.5	22
60	The $\beta$ transpososome structure sheds light on DDE recombinase evolution. <i>Nature</i> , <b>2012</b> , 491, 413-7	50.4	99
59	Automated real-space refinement of protein structures using a realistic backbone move set. <i>Biophysical Journal</i> , <b>2011</b> , 101, 899-909	2.9	26
58	Structural basis for catalytic activation of a serine recombinase. <i>Structure</i> , <b>2011</b> , 19, 799-809	5.2	34
57	Moving DNA around: DNA transposition and retroviral integration. <i>Current Opinion in Structural Biology</i> , <b>2011</b> , 21, 370-8	8.1	48
56	Sin resolvase catalytic activity and oligomerization state are tightly coupled. <i>Journal of Molecular Biology</i> , <b>2010</b> , 404, 16-33	6.5	14
55	Orchestrating serine resolvases. <i>Biochemical Society Transactions</i> , <b>2010</b> , 38, 384-7	5.1	14

54	Inter-subunit interactions that coordinate Rad51's activities. <i>Nucleic Acids Research</i> , <b>2009</b> , 37, 557-67	20.1	9
53	Regulatory mutations in Sin recombinase support a structure-based model of the synaptoneme. <i>Molecular Microbiology</i> , <b>2009</b> , 74, 282-98	4.1	26
52	Architecture of a serine recombinase-DNA regulatory complex. <i>Molecular Cell</i> , <b>2008</b> , 30, 145-55	17.6	53
51	Protein binding has a large effect on radical mediated DNA damage. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 12890-1	16.4	20
50	Binding and catalytic contributions to site recognition by flp recombinase. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 11414-23	5.4	10
49	Identification of a potential general acid/base in the reversible phosphoryl transfer reactions catalyzed by tyrosine recombinases: Flp H305. <i>Chemistry and Biology</i> , <b>2007</b> , 14, 121-9		24
48	Shaping the <i>Borrelia burgdorferi</i> genome: crystal structure and binding properties of the DNA-bending protein Hbb. <i>Molecular Microbiology</i> , <b>2007</b> , 63, 1319-30	4.1	60
47	Control of transposase activity within a transpososome by the configuration of the flanking DNA segment of the transposon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 14622-7	11.5	6
46	Structure-based analysis of HU-DNA binding. <i>Journal of Molecular Biology</i> , <b>2007</b> , 365, 1005-16	6.5	77
45	Binding then bending: a mechanism for wrapping DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 19217-8	11.5	19
44	Mechanisms of site-specific recombination. <i>Annual Review of Biochemistry</i> , <b>2006</b> , 75, 567-605	29.1	581
43	Visualizing Mu transposition: assembling the puzzle pieces. <i>Genes and Development</i> , <b>2005</b> , 19, 773-5	12.6	6
42	IHF and HU: flexible architects of bent DNA. <i>Current Opinion in Structural Biology</i> , <b>2004</b> , 14, 28-35	8.1	308
41	The role of the conserved Trp330 in Flp-mediated recombination. Functional and structural analysis. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 24800-7	5.4	36
40	Flexible DNA bending in HU-DNA cocrystal structures. <i>EMBO Journal</i> , <b>2003</b> , 22, 3749-60	13	205
39	Structural plasticity of the Flp-Holliday junction complex. <i>Journal of Molecular Biology</i> , <b>2003</b> , 326, 425-346.5		42
38	Integration host factor: putting a twist on protein-DNA recognition. <i>Journal of Molecular Biology</i> , <b>2003</b> , 330, 493-502	6.5	63
37	Comparative architecture of transposase and integrase complexes. <i>Nature Structural Biology</i> , <b>2001</b> , 8, 302-7		150

36	Crystal structure of an IHF-DNA complex: a protein-induced DNA U-turn. <i>Cell</i> , <b>1996</b> , 87, 1295-306	56.2	688
35	Structure of the bacteriophage Mu transposase core: a common structural motif for DNA transposition and retroviral integration. <i>Cell</i> , <b>1995</b> , 82, 209-20	56.2	208
34	The crystal structure of the catalytic domain of the site-specific recombination enzyme gamma delta resolvase at 2.7 Å resolution. <i>Cell</i> , <b>1990</b> , 63, 1323-9	56.2	110
33	Cooperativity mutants of the gamma delta resolvase identify an essential interdimer interaction. <i>Cell</i> , <b>1990</b> , 63, 1331-8	56.2	81
32	A Moveable Feast: An Introduction to Mobile DNA1-39		2
31	Serine Resolvases237-252		1
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