

Orsolya Barabas

List of Publications by Citations

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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.

39
papers

970
citations

19
h-index

30
g-index

46
ext. papers

1,160
ext. citations

13.5
avg, IF

3.66
L-index

#	Paper	IF	Citations
39	Mechanism of IS200/IS605 family DNA transposases: activation and transposon-directed target site selection. <i>Cell</i> , 2008 , 132, 208-20	56.2	91
38	Helicobacter Pylori β plasticity zones are novel transposable elements. <i>PLoS ONE</i> , 2009 , 4, e6859	3.7	75
37	Structural insights into the catalytic mechanism of phosphate ester hydrolysis by dUTPase. <i>Journal of Biological Chemistry</i> , 2004 , 279, 42907-15	5.4	66
36	In vitro reconstitution of a single-stranded transposition mechanism of IS608. <i>Molecular Cell</i> , 2008 , 29, 302-12	17.6	57
35	Active site of mycobacterial dUTPase: structural characteristics and a built-in sensor. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 373, 8-13	3.4	55
34	Crystal structure of the primary piRNA biogenesis factor Zucchini reveals similarity to the bacterial PLD endonuclease Nuc. <i>Rna</i> , 2012 , 18, 2128-34	5.8	49
33	Active site closure facilitates juxtaposition of reactant atoms for initiation of catalysis by human dUTPase. <i>FEBS Letters</i> , 2007 , 581, 4783-8	3.8	48
32	An integrated approach for genome annotation of the eukaryotic thermophile Chaetomium thermophilum. <i>Nucleic Acids Research</i> , 2014 , 42, 13525-33	20.1	40
31	Flexible segments modulate co-folding of dUTPase and nucleocapsid proteins. <i>Nucleic Acids Research</i> , 2007 , 35, 495-505	20.1	40
30	Revisiting the mechanism of the autoactivation of the complement protease C1r in the C1 complex: structure of the active catalytic region of C1r. <i>Molecular Immunology</i> , 2008 , 45, 1752-60	4.3	38
29	Altered active site flexibility and a structural metal-binding site in eukaryotic dUTPase: kinetic characterization, folding, and crystallographic studies of the homotrimeric Drosophila enzyme. <i>Journal of Biological Chemistry</i> , 2004 , 279, 17932-44	5.4	36
28	A highly soluble Sleeping Beauty transposase improves control of gene insertion. <i>Nature Biotechnology</i> , 2019 , 37, 1502-1512	44.5	36
27	Sleeping Beauty transposase structure allows rational design of hyperactive variants for genetic engineering. <i>Nature Communications</i> , 2016 , 7, 11126	17.4	34
26	DNA recognition and the precleavage state during single-stranded DNA transposition in D. radiodurans. <i>EMBO Journal</i> , 2010 , 29, 3840-52	13	32
25	Methylene substitution at the alpha-beta bridging position within the phosphate chain of dUDP profoundly perturbs ligand accommodation into the dUTPase active site. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008 , 71, 308-19	4.2	27
24	Resetting the site: redirecting integration of an insertion sequence in a predictable way. <i>Molecular Cell</i> , 2009 , 34, 612-9	17.6	26
23	Transposase-DNA Complex Structures Reveal Mechanisms for Conjugative Transposition of Antibiotic Resistance. <i>Cell</i> , 2018 , 173, 208-220.e20	56.2	24

22	Acquisition of an Archaea-like ribonuclease H domain by plant L1 retrotransposons supports modular evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 20140-5	11.5	23
21	Molecular shape and prominent role of beta-strand swapping in organization of dUTPase oligomers. <i>FEBS Letters</i> , 2009 , 583, 865-71	3.8	21
20	dUTPase and nucleocapsid polypeptides of the Mason-Pfizer monkey virus form a fusion protein in the virion with homotrimeric organization and low catalytic efficiency. <i>Journal of Biological Chemistry</i> , 2003 , 278, 38803-12	5.4	18
19	The USTC co-opts an ancient machinery to drive piRNA transcription in. <i>Genes and Development</i> , 2019 , 33, 90-102	12.6	15
18	Catalytic mechanism of γ -phosphate attack in dUTPase is revealed by X-ray crystallographic snapshots of distinct intermediates, ^{31}P -NMR spectroscopy and reaction path modelling. <i>Nucleic Acids Research</i> , 2013 , 41, 10542-55	20.1	12
17	Theoretical and experimental studies on ring closure reactions of 4(5)-chloro-5(4)-hydroxyalkylamino-6-nitro-3(2 H)-pyridazinones. <i>Computational and Theoretical Chemistry</i> , 2001 , 545, 75-96		12
16	Novel ring transformations of condensed [1,2,4]triazolo[4,3-b]pyridazine-6(5H)-one-3(2H)-thiones effected by dialkyl-acetylenedicarboxylates. <i>Tetrahedron</i> , 2001 , 57, 7191-7198	2.4	10
15	Synthesis and stereochemistry of dispiro substituted pyridazines: application of ellipticity-absorbance ratio spectra for proving enantiomeric relationship by HPLC-CD/UV detection. <i>Chirality</i> , 2002 , 14, 365-71	2.1	9
14	A single amino acid switch converts the Sleeping Beauty transposase into an efficient unidirectional excisionase with utility in stem cell reprogramming. <i>Nucleic Acids Research</i> , 2020 , 48, 316-331	20.1	8
13	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
12	Jump ahead with a twist: DNA acrobatics drive transposition forward. <i>Current Opinion in Structural Biology</i> , 2019 , 59, 168-177	8.1	7
11	Intermolecular base stacking mediates RNA-RNA interaction in a crystal structure of the RNA chaperone Hfq. <i>Scientific Reports</i> , 2017 , 7, 9903	4.9	6
10	Structure of an Escherichia coli Hfq:RNA complex at 0.97 Å resolution. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014 , 70, 1492-7	1.1	6
9	Crystallization and preliminary X-ray studies of dUTPase from Mason-Pfizer monkey retrovirus. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006 , 62, 399-401		6
8	Structural snapshots of Xer recombination reveal activation by synaptic complex remodeling and DNA bending. <i>ELife</i> , 2016 , 5,	8.9	6
7	Effects of stably incorporated iron on protein phosphatase-1 structure and activity. <i>FEBS Letters</i> , 2018 , 592, 4028-4038	3.8	6
6	Conjugative transposition of the vancomycin resistance carrying Tn1549: enzymatic requirements and target site preferences. <i>Molecular Microbiology</i> , 2018 , 107, 639-658	4.1	5
5	Structural Determinants of Sleeping Beauty Transposase Activity. <i>Molecular Therapy</i> , 2016 , 24, 1369-77	11.7	5

4	Sequence analysis of tyrosine recombinases allows annotation of mobile genetic elements in prokaryotic genomes. <i>Molecular Systems Biology</i> , 2021 , 17, e9880	12.2	4
3	Towards Dissecting the Mechanism of Protein Phosphatase-1 Inhibition by Its C-Terminal Phosphorylation. <i>ChemBioChem</i> , 2021 , 22, 834-838	3.8	4
2	Structural basis of solid solution formation during chiral resolution. <i>Tetrahedron: Asymmetry</i> , 2000 , 11, 4061-4070		3
1	Sequence analysis allows functional annotation of tyrosine recombinases in prokaryotic genomes		3