

Rick Russell

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4731810/publications.pdf>

Version: 2024-02-01

59
papers

3,746
citations

201674

27
h-index

144013

57
g-index

61
all docs

61
docs citations

61
times ranked

3222
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Measurement of Interhelical DNA Repulsion and Attraction by Quantitative Cross-Linking. <i>Journal of the American Chemical Society</i> , 2022, 144, 1718-1728.	13.7	8
2	A tweak and a peek: How Cas9 pries open double-stranded DNA to check its sequence. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 286-288.	8.2	1
3	Kinetics measurements of G-quadruplex binding and unfolding by helicases. <i>Methods</i> , 2022, 204, 1-13.	3.8	1
4	Measurement of ATP utilization in RNA unwinding and RNA chaperone activities by DEAD-box helicase proteins. <i>Methods in Enzymology</i> , 2022, , .	1.0	1
5	ATP utilization by a DEAD-box protein during refolding of a misfolded group I intron ribozyme. <i>Journal of Biological Chemistry</i> , 2021, 296, 100132.	3.4	8
6	Inhibition of CRISPR-Cas12a DNA targeting by nucleosomes and chromatin. <i>Science Advances</i> , 2021, 7, .	10.3	30
7	Structural basis for template switching by a group II intron-encoded non-LTR-retroelement reverse transcriptase. <i>Journal of Biological Chemistry</i> , 2021, 297, 100971.	3.4	13
8	How to Kinetically Dissect an RNA Machine. <i>Biochemistry</i> , 2021, 60, 3485-3490.	2.5	3
9	The DHX36-specific-motif (DSM) enhances specificity by accelerating recruitment of DNA G-quadruplex structures. <i>Biological Chemistry</i> , 2021, 402, 593-604.	2.5	5
10	Key Points to Consider When Studying RNA Remodeling by Proteins. <i>Methods in Molecular Biology</i> , 2021, 2209, 1-16.	0.9	2
11	Template-switching mechanism of a group II intron-encoded reverse transcriptase and its implications for biological function and RNA-Seq. <i>Journal of Biological Chemistry</i> , 2019, 294, 19764-19784.	3.4	18
12	The G-quadruplex (G4) resolvase DHX36 efficiently and specifically disrupts DNA G4s via a translocation-based helicase mechanism. <i>Journal of Biological Chemistry</i> , 2018, 293, 1924-1932.	3.4	31
13	Hidden Structural Modules in a Cooperative RNA Folding Transition. <i>Cell Reports</i> , 2018, 22, 3240-3250.	6.4	20
14	Kinetic Basis for DNA Target Specificity of CRISPR-Cas12a. <i>Molecular Cell</i> , 2018, 71, 816-824.e3.	9.7	225
15	Distinct RNA-unwinding mechanisms of DEAD-box and DEAH-box RNA helicase proteins in remodeling structured RNAs and RNPs. <i>Biochemical Society Transactions</i> , 2017, 45, 1313-1321.	3.4	77
16	The DEAD-Box Protein CYT-19 Uses Arginine Residues in Its C-Tail To Tether RNA Substrates. <i>Biochemistry</i> , 2017, 56, 3571-3578.	2.5	16
17	Visualizing the formation of an RNA folding intermediate through a fast highly modular secondary structure switch. <i>Nature Communications</i> , 2016, 7, ncomms11768.	12.8	50
18	RNA Structural Modules Control the Rate and Pathway of RNA Folding and Assembly. <i>Journal of Molecular Biology</i> , 2016, 428, 3972-3985.	4.2	14

#	ARTICLE	IF	CITATIONS
19	Reflections on 20 years of RNA folding, dynamics, and structure. <i>Rna</i> , 2015, 21, 723-724.	3.5	0
20	Unwinding the Mechanisms of a DEAD-Box RNA Helicase in Cancer. <i>Journal of Molecular Biology</i> , 2015, 427, 1797-1800.	4.2	6
21	Hexapeptides That Inhibit Processing of Branched DNA Structures Induce a Dynamic Ensemble of Holliday Junction Conformations. <i>Journal of Biological Chemistry</i> , 2015, 290, 22734-22746.	3.4	6
22	Key Points to Consider When Studying RNA Remodeling by Proteins. <i>Methods in Molecular Biology</i> , 2015, 1259, 1-16.	0.9	1
23	DEAD-box protein CYT-19 is activated by exposed helices in a group I intron RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2928-36.	7.1	23
24	DEAD-Box Helicase Proteins Disrupt RNA Tertiary Structure Through Helix Capture. <i>PLoS Biology</i> , 2014, 12, e1001981.	5.6	18
25	Folding Pathways of the Tetrahymena Ribozyme. <i>Journal of Molecular Biology</i> , 2014, 426, 2300-2312.	4.2	15
26	RNA Helicase Proteins as Chaperones and Remodelers. <i>Annual Review of Biochemistry</i> , 2014, 83, 697-725.	11.1	207
27	Chance, Destiny, and the Inner Workings of ClpXP. <i>Cell</i> , 2014, 158, 479-480.	28.9	2
28	Organization of DNA Partners and Strand Exchange Mechanisms during Flp Site-Specific Recombination Analyzed by Difference Topology, Single Molecule FRET and Single Molecule TPM. <i>Journal of Molecular Biology</i> , 2014, 426, 793-815.	4.2	17
29	The Long-Range P3 Helix of the Tetrahymena Ribozyme Is Disrupted during Folding between the Native and Misfolded Conformations. <i>Journal of Molecular Biology</i> , 2013, 425, 2670-2686.	4.2	20
30	Visualization of local DNA unwinding by Mre11/Rad50/Nbs1 using single-molecule FRET. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18868-18873.	7.1	55
31	A Dual-Mode Single-Molecule Fluorescence Assay for the Detection of Expanded CGG Repeats in Fragile X Syndrome. <i>Molecular Biotechnology</i> , 2013, 53, 19-28.	2.4	10
32	Toward a molecular understanding of RNA remodeling by DEAD-box proteins. <i>RNA Biology</i> , 2013, 10, 44-55.	3.1	74
33	RNA chaperone activity of DEAD-box helicase™ proteins. <i>FASEB Journal</i> , 2013, 27, 96.3.	0.5	0
34	RNA Catalysis as a Probe for Chaperone Activity of DEAD-Box Helicases. <i>Methods in Enzymology</i> , 2012, 511, 111-130.	1.0	6
35	Zeptomole detection of DNA nanoparticles by single-molecule fluorescence with magnetic field-directed localization. <i>Analytical Biochemistry</i> , 2012, 431, 40-47.	2.4	18
36	ATP-Dependent Roles of the DEAD-Box Protein Mss116p in Group II Intron Splicing In Vitro and In Vivo. <i>Journal of Molecular Biology</i> , 2011, 411, 661-679.	4.2	30

#	ARTICLE	IF	CITATIONS
37	DEAD-box proteins as RNA helicases and chaperones. <i>Wiley Interdisciplinary Reviews RNA</i> , 2011, 2, 135-152.	6.4	135
38	Solution structures of DEAD-box RNA chaperones reveal conformational changes and nucleic acid tethering by a basic tail. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 12254-12259.	7.1	66
39	The Azoarcus Group I Intron Ribozyme Misfolds and Is Accelerated for Refolding by ATP-dependent RNA Chaperone Proteins. <i>Journal of Biological Chemistry</i> , 2011, 286, 37304-37312.	3.4	28
40	Roles of DEAD-box proteins in RNA and RNP Folding. <i>RNA Biology</i> , 2010, 7, 667-676.	3.1	40
41	Multiple Unfolding Events during Native Folding of the Tetrahymena Group I Ribozyme. <i>Journal of Molecular Biology</i> , 2010, 400, 1067-1077.	4.2	29
42	Catalytic Activity as a Probe of Native RNA Folding. <i>Methods in Enzymology</i> , 2009, 468, 195-218.	1.0	20
43	DEAD-box proteins can completely separate an RNA duplex using a single ATP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20203-20208.	7.1	119
44	RNA misfolding and the action of chaperones. <i>Frontiers in Bioscience - Landmark</i> , 2008, 13, 1.	3.0	104
45	Do DEAD-Box Proteins Promote Group II Intron Splicing without Unwinding RNA?. <i>Molecular Cell</i> , 2007, 28, 159-166.	9.7	61
46	Probing the Mechanisms of DEAD-Box Proteins as General RNA Chaperones: The C-Terminal Domain of CYT-19 Mediates General Recognition of RNA. <i>Biochemistry</i> , 2007, 46, 3013-3022.	2.5	69
47	Deletion of the P5abc Peripheral Element Accelerates Early and Late Folding Steps of the Tetrahymena Group I Ribozyme. <i>Biochemistry</i> , 2007, 46, 4951-4961.	2.5	20
48	DMS footprinting of structured RNAs and RNA-protein complexes. <i>Nature Protocols</i> , 2007, 2, 2608-2623.	12.0	235
49	Kinetic redistribution of native and misfolded RNAs by a DEAD-box chaperone. <i>Nature</i> , 2007, 449, 1014-1018.	27.8	109
50	The Paradoxical Behavior of a Highly Structured Misfolded Intermediate in RNA Folding. <i>Journal of Molecular Biology</i> , 2006, 363, 531-544.	4.2	92
51	Nonspecific binding to structured RNA and preferential unwinding of an exposed helix by the CYT-19 protein, a DEAD-box RNA chaperone. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 16698-16703.	7.1	93
52	Structural specificity conferred by a group I RNA peripheral element. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10176-10181.	7.1	43
53	Rapid compaction during RNA folding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4266-4271.	7.1	207
54	Exploring the folding landscape of a structured RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 155-160.	7.1	222

#	ARTICLE	IF	CITATIONS
55	Probing the folding landscape of the Tetrahymena ribozyme: commitment to form the native conformation is late in the folding pathway. <i>Journal of Molecular Biology</i> , 2001, 308, 839-851.	4.2	97
56	Small angle X-ray scattering reveals a compact intermediate in RNA folding. <i>Nature Structural Biology</i> , 2000, 7, 367-370.	9.7	96
57	A Single-Molecule Study of RNA Catalysis and Folding. <i>Science</i> , 2000, 288, 2048-2051.	12.6	696
58	Specificity from steric restrictions in the guanosine binding pocket of a group I ribozyme. <i>Rna</i> , 1999, 5, 158-166.	3.5	29
59	New pathways in folding of the Tetrahymena group I RNA enzyme. <i>Journal of Molecular Biology</i> , 1999, 291, 1155-1167.	4.2	105