Aaron A Hoskins

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Ordered and Dynamic Assembly of Single Spliceosomes. Science, 2011, 331, 1289-1295.	12.6	266
2	The spliceosome: a flexible, reversible macromolecular machine. Trends in Biochemical Sciences, 2012, 37, 179-188.	7.5	209
3	Visualizing the splicing of single pre-mRNA molecules in whole cell extract. Rna, 2008, 14, 170-179.	3.5	92
4	Alternative Spliceosome Assembly Pathways Revealed by Single-Molecule Fluorescence Microscopy. Cell Reports, 2013, 5, 151-165.	6.4	67
5	SF3b1 mutations associated with myelodysplastic syndromes alter the fidelity of branchsite selection in yeast. Nucleic Acids Research, 2017, 45, gkw1349.	14.5	66
6	Single-molecule colocalization FRET evidence that spliceosome activation precedes stable approach of 5′ splice site and branch site. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 6783-6788.	7.1	55
7	Design and construction of a multiwavelength, micromirror total internal reflectance fluorescence microscope. Nature Protocols, 2014, 9, 2317-2328.	12.0	48
8	Structural Analysis of Multi-Helical RNAs by NMR–SAXS/WAXS: Application to the U4/U6 di-snRNA. Journal of Molecular Biology, 2016, 428, 777-789.	4.2	45
9	Structural and functional modularity of the U2 snRNP in pre-mRNA splicing. Critical Reviews in Biochemistry and Molecular Biology, 2019, 54, 443-465.	5.2	39
10	Single molecule analysis reveals reversible and irreversible steps during spliceosome activation. ELife, 2016, 5, .	6.0	37
11	Visualizing cellular machines with colocalization single molecule microscopy. Chemical Society Reviews, 2014, 43, 1189-1200.	38.1	31
12	Strategies from UW-Madison for rescuing biomedical research in the US. ELife, 2015, 4, e09305.	6.0	30
13	New insights into the spliceosome by single molecule fluorescence microscopy. Current Opinion in Chemical Biology, 2011, 15, 864-870.	6.1	28
14	Conformational dynamics of stem II of the U2 snRNA. Rna, 2016, 22, 225-236.	3.5	27
15	Dynamics and consequences of spliceosome E complex formation. ELife, 2017, 6, .	6.0	25
16	Ribonucleoprotein purification and characterization using RNA Mango. Rna, 2017, 23, 1592-1599.	3.5	24
17	Functional analysis of Hsh155/SF3b1 interactions with the U2 snRNA/branch site duplex. Rna, 2018, 24, 1028-1040.	3.5	22
18	Usb1 controls U6 snRNP assembly through evolutionarily divergent cyclic phosphodiesterase activities. Nature Communications, 2017, 8, 497.	12.8	20

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19	Stress-induced Pseudouridylation Alters the Structural Equilibrium of Yeast U2 snRNA Stem II. Journal of Molecular Biology, 2018, 430, 524-536.	4.2	20
20	The Covalent Trimethoprim Chemical Tag Facilitates Single Molecule Imaging with Organic Fluorophores. Biophysical Journal, 2014, 106, 272-278.	0.5	14
21	A multi-step model for facilitated unwinding of the yeast U4/U6 RNA duplex. Nucleic Acids Research, 2016, 44, 10912-10928.	14.5	14
22	Dynamics of the DEAD-box ATPase Prp5 RecA-like domains provide a conformational switch during spliceosome assembly. Nucleic Acids Research, 2019, 47, 10842-10851.	14.5	13
23	Debranchase-resistant labeling of RNA using the 10DM24 deoxyribozyme and fluorescent modified nucleotides. Chemical Communications, 2017, 53, 11992-11995.	4.1	12
24	Analysis of spliceosome dynamics by maximum likelihood fitting of dwell time distributions. Methods, 2019, 153, 13-21.	3.8	12
25	Single Molecule Approaches for Studying Spliceosome Assembly and Catalysis. Methods in Molecular Biology, 2014, 1126, 217-241.	0.9	12
26	Rapid isolation and single-molecule analysis of ribonucleoproteins from cell lysate by SNAP-SiMPull. Rna, 2015, 21, 1031-1041.	3.5	11
27	Methodologies for studying the spliceosome's RNA dynamics with single-molecule FRET. Methods, 2017, 125, 45-54.	3.8	11
28	Chemical Inhibition of Pre-mRNA Splicing in Living Saccharomyces cerevisiae. Cell Chemical Biology, 2019, 26, 443-448.e3.	5.2	10
29	Lights, camera, action! Capturing the spliceosome and preâ€ <scp>mRNA</scp> splicing with singleâ€molecule fluorescence microscopy. Wiley Interdisciplinary Reviews RNA, 2016, 7, 683-701.	6.4	9
30	<i>Saccharomyces cerevisiae</i> Ecm2 modulates the catalytic steps of pre-mRNA splicing. Rna, 2021, 27, 591-603.	3.5	8
31	Impact of cancer-associated mutations in Hsh155/SF3b1 HEAT repeats 9-12 on pre-mRNA splicing in Saccharomyces cerevisiae. PLoS ONE, 2020, 15, e0229315.	2.5	7
32	Network theory reveals principles of spliceosome structure and dynamics. Structure, 2022, 30, 190-200.e2.	3.3	5
33	When cells are down on their LUC7L2, alternative splicing rewires metabolism for OXPHOS. Molecular Cell, 2021, 81, 1859-1860.	9.7	1
34	Stuck on UUUU: New splicing inhibitors enhance U2AF2-RNA binding. Cell Chemical Biology, 2021, 28, 1106-1108.	5.2	1
35	RNA processing: Fungal spliceosomes break the mold. Current Biology, 2021, 31, R1482-R1484.	3.9	1
36	Towards Optimization of a General RNA Labeling Deoxyribozyme: Characterization of a Unimolecular Deoxyribozyme. FASEB Journal, 2015, 29, 573.10.	0.5	0

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37	Impact of Mutations in the DEXDâ€motif of the Yeast RNAâ€dependent ATPase Sub2. FASEB Journal, 2019, 33, 459.8.	0.5	0
38	Title is missing!. , 2020, 15, e0229315.		0
39	Title is missing!. , 2020, 15, e0229315.		0
40	Title is missing!. , 2020, 15, e0229315.		0
41	Title is missing!. , 2020, 15, e0229315.		0