

# Matthew D Simon

## 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.

58  
papers

4,660  
citations

25  
h-index

63  
g-index

63  
ext. papers

5,770  
ext. citations

15.2  
avg, IF

5.52  
L-index

#	Paper	IF	Citations
58	Precision analysis of mutant U2AF1 activity reveals deployment of stress granules in myeloid malignancies.. <i>Molecular Cell</i> , <b>2022</b> , 82, 1107-1122.e7	17.6	1
57	Functional elements of the cis-regulatory lincRNA-p21.. <i>Cell Reports</i> , <b>2022</b> , 39, 110687	10.6	1
56	U2AF1 Mutations Enhance Stress Granule Response in Myeloid Malignancies. <i>Blood</i> , <b>2021</b> , 138, 321-321	2.2	
55	ALKBH5 Modulates Hematopoietic Stem and Progenitor Cell Energy Metabolism through m 6a Modification-Mediated RNA Stability. <i>Blood</i> , <b>2021</b> , 138, 298-298	2.2	
54	Genome-wide CRISPR Screens Reveal Host Factors Critical for SARS-CoV-2 Infection. <i>Cell</i> , <b>2021</b> , 184, 76-91.e13	56.2	202
53	Discovery of cellular substrates of human RNA-decapping enzyme DCP2 using a stapled bicyclic peptide inhibitor. <i>Cell Chemical Biology</i> , <b>2021</b> , 28, 463-474.e7	8.2	3
52	Hyperosmotic stress alters the RNA polymerase II interactome and induces readthrough transcription despite widespread transcriptional repression. <i>Molecular Cell</i> , <b>2021</b> , 81, 502-513.e4	17.6	14
51	STL-seq reveals pause-release and termination kinetics for promoter-proximal paused RNA polymerase II transcripts. <i>Molecular Cell</i> , <b>2021</b> , 81, 4398-4412.e7	17.6	0
50	Global Profiling of Cellular Substrates of Human Dcp2. <i>Biochemistry</i> , <b>2020</b> , 59, 4176-4188	3.2	8
49	Enhanced nucleotide chemistry and toehold nanotechnology reveals lncRNA spreading on chromatin. <i>Nature Structural and Molecular Biology</i> , <b>2020</b> , 27, 297-304	17.6	2
48	p53 Activates the Long Noncoding RNA Pvt1b to Inhibit Myc and Suppress Tumorigenesis. <i>Molecular Cell</i> , <b>2020</b> , 77, 761-774.e8	17.6	59
47	High-Resolution Binding Atlas of U2AF1 Mutants Uncovers New Complexity in Splicing Alterations and Kinetics in Myeloid Malignancies. <i>Blood</i> , <b>2020</b> , 136, 3-4	2.2	
46	The NBDY Microprotein Regulates Cellular RNA Decapping. <i>Biochemistry</i> , <b>2020</b> , 59, 4131-4142	3.2	8
45	Stella's Role in Oocyte DNA Methylation Suggests Additional Activities of DNMT1. <i>Biochemistry</i> , <b>2019</b> , 58, 1833-1834	3.2	
44	Antisense lncRNA Transcription Mediates DNA Demethylation to Drive Stochastic Protocadherin Promoter Choice. <i>Cell</i> , <b>2019</b> , 177, 639-653.e15	56.2	73
43	Reengineering a tRNA Methyltransferase To Covalently Capture New RNA Substrates. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 17460-17465	16.4	1
42	Principles and Practices of Hybridization Capture Experiments to Study Long Noncoding RNAs That Act on Chromatin. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2019</b> , 11,	10.2	2

41	Carbodiimide reagents for the chemical probing of RNA structure in cells. <i>Rna</i> , <b>2019</b> , 25, 135-146	5.8	24
40	Gaining insight into transcriptome-wide RNA population dynamics through the chemistry of 4-thiouridine. <i>Wiley Interdisciplinary Reviews RNA</i> , <b>2019</b> , 10, e1513	9.3	15
39	Catching RNAs on chromatin using hybridization capture methods. <i>Briefings in Functional Genomics</i> , <b>2018</b> , 17, 96-103	4.9	14
38	TimeLapse-seq: adding a temporal dimension to RNA sequencing through nucleoside recoding. <i>Nature Methods</i> , <b>2018</b> , 15, 221-225	21.6	105
37	Solid phase chemistry to covalently and reversibly capture thiolated RNA. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 6996-7005	20.1	12
36	Studying Stimulus-Induced Changes in RNA Dynamics by Mutational Mapping through TimeLapse-seq. <i>FASEB Journal</i> , <b>2018</b> , 32, lb23	0.9	
35	Expanding the Nucleoside Recoding Toolkit: Revealing RNA Population Dynamics with 6-Thioguanosine. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 14567-14570	16.4	17
34	Interpreting Reverse Transcriptase Termination and Mutation Events for Greater Insight into the Chemical Probing of RNA. <i>Biochemistry</i> , <b>2017</b> , 56, 4713-4721	3.2	42
33	mA mRNA methylation controls T cell homeostasis by targeting the IL-7/STAT5/SOCS pathways. <i>Nature</i> , <b>2017</b> , 548, 338-342	50.4	367
32	Insight into lncRNA biology using hybridization capture analyses. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2016</b> , 1859, 121-7	6	24
31	Enriching s U-RNA Using Methane Thiosulfonate (MTS) Chemistry. <i>Current Protocols in Chemical Biology</i> , <b>2016</b> , 8, 234-250	1.8	20
30	The Properties of Long Noncoding RNAs That Regulate Chromatin. <i>Annual Review of Genomics and Human Genetics</i> , <b>2016</b> , 17, 69-94	9.7	61
29	Capture Hybridization Analysis of DNA Targets. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1480, 87-97	1.4	3
28	Tracking Distinct RNA Populations Using Efficient and Reversible Covalent Chemistry. <i>Molecular Cell</i> , <b>2015</b> , 59, 858-66	17.6	118
27	Probing Xist RNA Structure in Cells Using Targeted Structure-Seq. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005668	6	91
26	The long noncoding RNAs NEAT1 and MALAT1 bind active chromatin sites. <i>Molecular Cell</i> , <b>2014</b> , 55, 791-802	17.9	421
25	A chromatin-dependent role of the fragile X mental retardation protein FMRP in the DNA damage response. <i>Cell</i> , <b>2014</b> , 157, 869-81	56.2	113
24	Multiplexed Illumina sequencing libraries from picogram quantities of DNA. <i>BMC Genomics</i> , <b>2013</b> , 14, 466	4.5	62

23	High-resolution Xist binding maps reveal two-step spreading during X-chromosome inactivation. <i>Nature</i> , <b>2013</b> , 504, 465-469	50.4	289
22	LSD2/KDM1B and its cofactor NPAC/GLYR1 endow a structural and molecular model for regulation of H3K4 demethylation. <i>Molecular Cell</i> , <b>2013</b> , 49, 558-70	17.6	61
21	Capture hybridization analysis of RNA targets (CHART). <i>Current Protocols in Molecular Biology</i> , <b>2013</b> , Chapter 21, Unit 21.25.	2.9	44
20	Epigenetic mechanism: silent nucleosomal structures and non-coding RNAs.. <i>FASEB Journal</i> , <b>2013</b> , 27, 456.2	0.9	
19	A method to site-specifically incorporate methyl-lysine analogues into recombinant proteins. <i>Methods in Enzymology</i> , <b>2012</b> , 512, 57-69	1.7	10
18	The fragile X mental retardation protein FMRP plays a role in the DNA damage response. <i>FASEB Journal</i> , <b>2012</b> , 26, 88.1	0.9	1
17	Chromodomain-mediated oligomerization of HP1 suggests a nucleosome-bridging mechanism for heterochromatin assembly. <i>Molecular Cell</i> , <b>2011</b> , 41, 67-81	17.6	214
16	The genomic binding sites of a noncoding RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 20497-502	11.5	333
15	Innate immune responses activated in Arabidopsis roots by microbe-associated molecular patterns. <i>Plant Cell</i> , <b>2010</b> , 22, 973-90	11.6	393
14	Installation of site-specific methylation into histones using methyl lysine analogs. <i>Current Protocols in Molecular Biology</i> , <b>2010</b> , Chapter 21, Unit 21.18.1-10	2.9	17
13	Histone H3 lysine 36 dimethylation (H3K36me2) is sufficient to recruit the Rpd3s histone deacetylase complex and to repress spurious transcription. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 7970-6	5.4	117
12	Polycomb proteins remain bound to chromatin and DNA during DNA replication in vitro. <i>Cell</i> , <b>2009</b> , 137, 110-22	56.2	141
11	Jumonji modulates polycomb activity and self-renewal versus differentiation of stem cells. <i>Cell</i> , <b>2009</b> , 139, 1303-14	56.2	360
10	ING4 mediates crosstalk between histone H3 K4 trimethylation and H3 acetylation to attenuate cellular transformation. <i>Molecular Cell</i> , <b>2009</b> , 33, 248-56	17.6	166
9	The effect of H3K79 dimethylation and H4K20 trimethylation on nucleosome and chromatin structure. <i>Nature Structural and Molecular Biology</i> , <b>2008</b> , 15, 1122-4	17.6	176
8	The polycomb group protein SUZ12 regulates histone H3 lysine 9 methylation and HP1 alpha distribution. <i>Chromosome Research</i> , <b>2007</b> , 15, 299-314	4.4	35
7	The site-specific installation of methyl-lysine analogs into recombinant histones. <i>Cell</i> , <b>2007</b> , 128, 1003-12	56.2	368
6	Structure and properties of a re-engineered homeodomain protein-DNA interface. <i>ACS Chemical Biology</i> , <b>2006</b> , 1, 755-60	4.9	4

5	A phage display selection of engrailed homeodomain mutants and the importance of residue Q50. <i>Nucleic Acids Research</i> , <b>2004</b> , 32, 3623-31	20.1	11
4	Dissecting the Engrailed homeodomain-DNA interaction by phage-displayed shotgun scanning. <i>Chemistry and Biology</i> , <b>2004</b> , 11, 1017-23		19
3	Adaptability at a protein-DNA interface: re-engineering the engrailed homeodomain to recognize an unnatural nucleotide. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 8078-9	16.4	12
2	Revealing Biological Specificity by Engineering Protein-Ligand Interactions 115-139		2
1	Antisense lncRNA transcription drives stochastic Protocadherin $\beta$ promoter choice		3