Erik J Sontheimer

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/2816776/erik-j-sontheimer-publications-by-year.pdf

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84	11,798	38	103
papers	citations	h-index	g-index
103 ext. papers	13,538 ext. citations	21.1 avg, IF	6.85 L-index

#	Paper	IF	Citations
84	Genome-wide detection of CRISPR editing in vivo using GUIDE-tag <i>Nature Communications</i> , 2022 , 13, 437	17.4	1
83	CRISPR-enhanced human adipocyte browning as cell therapy for metabolic disease. <i>Nature Communications</i> , 2021 , 12, 6931	17.4	4
82	5FModifications improve potency and efficacy of DNA donors for precision genome editing. <i>ELife</i> , 2021 , 10,	8.9	4
81	Self-inactivating, all-in-one AAV vectors for precision Cas9 genome editing via homology-directed repair in vivo. <i>Nature Communications</i> , 2021 , 12, 6267	17.4	5
80	Improved prime editors enable pathogenic allele correction and cancer modelling in adult mice. Nature Communications, 2021, 12, 2121	17.4	45
79	The NIH Somatic Cell Genome Editing program. <i>Nature</i> , 2021 , 592, 195-204	50.4	21
78	YAP1 Withdrawal in Hepatoblastoma Drives Therapeutic Differentiation of Tumor Cells to Functional Hepatocyte-Like Cells. <i>Hepatology</i> , 2021 , 73, 1011-1027	11.2	6
77	A Cas9 with PAM recognition for adenine dinucleotides. <i>Nature Communications</i> , 2020 , 11, 2474	17.4	38
76	An engineered ScCas9 with broad PAM range and high specificity and activity. <i>Nature Biotechnology</i> , 2020 , 38, 1154-1158	44.5	51
75	Anti-CRISPRs: Protein Inhibitors of CRISPR-Cas Systems. <i>Annual Review of Biochemistry</i> , 2020 , 89, 309-33	32 9.1	37
74	CRISPR Shields: Fending Off Diverse Cas Nucleases with Nucleus-like Structures. <i>Molecular Cell</i> , 2020 , 77, 934-936	17.6	
73	Shutting down RNA-targeting CRISPR. Science, 2020, 369, 31-32	33.3	0
72	Tissue-restricted genome editing in vivo specified by microRNA-repressible anti-CRISPR proteins. <i>Rna</i> , 2019 , 25, 1421-1431	5.8	35
71	Adapting dCas9-APEX2 for subnuclear proteomic profiling. <i>Methods in Enzymology</i> , 2019 , 616, 365-383	1.7	1
70	Inhibition of CRISPR-Cas9 ribonucleoprotein complex assembly by anti-CRISPR AcrIIC2. <i>Nature Communications</i> , 2019 , 10, 2806	17.4	30
69	X-Tracting a New CRISPR-Cas Genome-Editing Platform from Metagenomic Data Sets. <i>CRISPR Journal</i> , 2019 , 2, 148-150	2.5	1
68	Structures of Neisseria meningitidis Cas9 Complexes in Catalytically Poised and Anti-CRISPR-Inhibited States. <i>Molecular Cell</i> , 2019 , 76, 938-952.e5	17.6	35

(2015-2019)

67	Anti-CRISPR AcrilA5 Potently Inhibits All Cas9 Homologs Used for Genome Editing. <i>Cell Reports</i> , 2019 , 29, 1739-1746.e5	10.6	20
66	A Compact, High-Accuracy Cas9 with a Dinucleotide PAM for InDivo Genome Editing. <i>Molecular Cell</i> , 2019 , 73, 714-726.e4	17.6	85
65	CRISPRs from scratch. <i>Nature Microbiology</i> , 2018 , 3, 261-262	26.6	
64	Heavily and fully modified RNAs guide efficient SpyCas9-mediated genome editing. <i>Nature Communications</i> , 2018 , 9, 2641	17.4	44
63	C-BERST: defining subnuclear proteomic landscapes at genomic elements with dCas9-APEX2. <i>Nature Methods</i> , 2018 , 15, 433-436	21.6	67
62	Type II-C CRISPR-Cas9 Biology, Mechanism, and Application. ACS Chemical Biology, 2018, 13, 357-365	4.9	57
61	Orthogonal Cas9-Cas9 chimeras provide a versatile platform for genome editing. <i>Nature Communications</i> , 2018 , 9, 4856	17.4	19
60	Potent Cas9 Inhibition in Bacterial and Human Cells by AcrIIC4 and AcrIIC5 Anti-CRISPR Proteins. <i>MBio</i> , 2018 , 9,	7.8	51
59	NmeCas9 is an intrinsically high-fidelity genome-editing platform. <i>Genome Biology</i> , 2018 , 19, 214	18.3	60
58	All-in-one adeno-associated virus delivery and genome editing by Neisseria meningitidis Cas9 in vivo. <i>Genome Biology</i> , 2018 , 19, 137	18.3	58
57	A Hyperthermophilic Phage Decoration Protein Suggests Common Evolutionary Origin with Herpesvirus Triplex Proteins and an Anti-CRISPR Protein. <i>Structure</i> , 2018 , 26, 936-947.e3	5.2	16
56	CRISPR/Cas9-mediated genome editing induces exon skipping by alternative splicing or exon deletion. <i>Genome Biology</i> , 2017 , 18, 108	18.3	103
55	A Broad-Spectrum Inhibitor of CRISPR-Cas9. <i>Cell</i> , 2017 , 170, 1224-1233.e15	56.2	145
54	Inhibition of CRISPR-Cas systems by mobile genetic elements. <i>Current Opinion in Microbiology</i> , 2017 , 37, 120-127	7.9	23
53	RNA. CRISPR goes retro. <i>Science</i> , 2016 , 351, 920-1	33.3	
52	Naturally Occurring Off-Switches for CRISPR-Cas9. <i>Cell</i> , 2016 , 167, 1829-1838.e9	56.2	2 60
51	Adenovirus-Mediated Somatic Genome Editing of Pten by CRISPR/Cas9 in Mouse Liver in Spite of Cas9-Specific Immune Responses. <i>Human Gene Therapy</i> , 2015 , 26, 432-42	4.8	226
50	The Bacterial Origins of the CRISPR Genome-Editing Revolution. <i>Human Gene Therapy</i> , 2015 , 26, 413-24	4.8	56

49	DNase H Activity of Neisseria meningitidis Cas9. <i>Molecular Cell</i> , 2015 , 60, 242-55	17.6	45
48	Primary processing of CRISPR RNA by the endonuclease Cas6 in Staphylococcus epidermidis. <i>FEBS Letters</i> , 2015 , 589, 3197-204	3.8	10
47	Accelerating expansion. <i>Rna</i> , 2015 , 21, 510	5.8	
46	Cas9 gets a classmate. <i>Nature Biotechnology</i> , 2015 , 33, 1240-1241	44.5	3
45	Structural biology. Cascading into focus. <i>Science</i> , 2014 , 345, 1452-3	33.3	3
44	SPO24 is a transcriptionally dynamic, small ORF-encoding locus required for efficient sporulation in Saccharomyces cerevisiae. <i>PLoS ONE</i> , 2014 , 9, e105058	3.7	5
43	Quit stalling or you T l be silenced. <i>Cell</i> , 2013 , 152, 938-9	56.2	0
42	Processing-independent CRISPR RNAs limit natural transformation in Neisseria meningitidis. <i>Molecular Cell</i> , 2013 , 50, 488-503	17.6	206
41	Efficient genome engineering in human pluripotent stem cells using Cas9 from Neisseria meningitidis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 15644-9	11.5	508
40	Small RNAs of opposite sign[but same absolute value. <i>Cell</i> , 2012 , 151, 1157-8	56.2	1
39	Meiosis-induced alterations in transcript architecture and noncoding RNA expression in S. cerevisiae. <i>Rna</i> , 2012 , 18, 1142-53	5.8	15
38	Blanks, a nuclear siRNA/dsRNA-binding complex component, is required for Drosophila spermiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 3204-9	11.5	24
37	Self versus non-self discrimination during CRISPR RNA-directed immunity. <i>Nature</i> , 2010 , 463, 568-71	50.4	444
36	CRISPR interference: RNA-directed adaptive immunity in bacteria and archaea. <i>Nature Reviews Genetics</i> , 2010 , 11, 181-90	30.1	711
35	Proteomics identification of Drosophila small interfering RNA-associated factors. <i>Molecular and Cellular Proteomics</i> , 2010 , 9, 1866-72	7.6	6
34	Invasive DNA, chopped and in the CRISPR. <i>Structure</i> , 2009 , 17, 786-8	5.2	20
33	Silencing by small RNAs is linked to endosomal trafficking. <i>Nature Cell Biology</i> , 2009 , 11, 1150-6	23.4	279
32	Origins and Mechanisms of miRNAs and siRNAs. <i>Cell</i> , 2009 , 136, 642-55	56.2	3659

(2000-2008)

31	A role for ubiquitin in the spliceosome assembly pathway. <i>Nature Structural and Molecular Biology</i> , 2008 , 15, 444-51	17.6	93
30	CRISPR interference limits horizontal gene transfer in staphylococci by targeting DNA. <i>Science</i> , 2008 , 322, 1843-5	33.3	1181
29	An inside job for siRNAs. <i>Molecular Cell</i> , 2008 , 31, 309-12	17.6	108
28	Short interfering RNA strand selection is independent of dsRNA processing polarity during RNAi in Drosophila. <i>Current Biology</i> , 2006 , 16, 530-5	6.3	53
27	Ubiquitin binding by a variant Jab1/MPN domain in the essential pre-mRNA splicing factor Prp8p. <i>Rna</i> , 2006 , 12, 292-302	5.8	63
26	Molecular requirements for RNA-induced silencing complex assembly in the Drosophila RNA interference pathway. <i>Journal of Biological Chemistry</i> , 2005 , 280, 39278-83	5.4	58
25	Silence from within: endogenous siRNAs and miRNAs. <i>Cell</i> , 2005 , 122, 9-12	56.2	236
24	RNAi: RISC gets loaded. <i>Cell</i> , 2005 , 123, 543-5	56.2	87
23	Assembly and function of RNA silencing complexes. Nature Reviews Molecular Cell Biology, 2005, 6, 127	- 348 8.7	330
22	Separation of Drosophila RNA silencing complexes by native gel electrophoresis. <i>Methods in Molecular Biology</i> , 2005 , 309, 11-6	1.4	2
21	ATP modulates siRNA interactions with an endogenous human Dicer complex. <i>Rna</i> , 2005 , 11, 1719-24	5.8	18
20	"siRNAs and miRNAs": a meeting report on RNA silencing. <i>Rna</i> , 2004 , 10, 1165-73	5.8	10
19	Molecular biology. Argonaute journeys into the heart of RISC. <i>Science</i> , 2004 , 305, 1409-10	33.3	46
18	Thermodynamic and structural characterization of 2Tnitrogen-modified RNA duplexes. <i>Nucleic Acids Research</i> , 2004 , 32, 3446-55	20.1	14
17	A Dicer-2-dependent 80s complex cleaves targeted mRNAs during RNAi in Drosophila. <i>Cell</i> , 2004 , 117, 83-94	56.2	348
16	Distinct roles for Drosophila Dicer-1 and Dicer-2 in the siRNA/miRNA silencing pathways. <i>Cell</i> , 2004 , 117, 69-81	56.2	1016
15	R2D2 leads the silencing trigger to mRNA's death star. <i>Cell</i> , 2003 , 115, 132-3	56.2	6
14	Metal ion catalysis during the exon-ligation step of nuclear pre-mRNA splicing: extending the parallels between the spliceosome and group II introns. <i>Rna</i> , 2000 , 6, 199-205	5.8	98

13	Kinetic characterization of the second step of group II intron splicing: role of metal ions and the cleavage site 2FOH in catalysis. <i>Biochemistry</i> , 2000 , 39, 12939-52	3.2	72
12	Bridging sulfur substitutions in the analysis of pre-mRNA splicing. <i>Methods</i> , 1999 , 18, 29-37	4.6	5
11	Metal ion catalysis during splicing of premessenger RNA. <i>Nature</i> , 1997 , 388, 801-5	50.4	155
10	Site-specific RNA crosslinking with 4-thiouridine. <i>Molecular Biology Reports</i> , 1994 , 20, 35-44	2.8	64
9	Autoantibodies against a serine tRNA-protein complex implicated in cotranslational selenocysteine insertion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992 , 89, 973	39 ⁻ 43 ⁻	126
8	Heavily and Fully Modified RNAs Guide Efficient SpyCas9-Mediated Genome Editing		1
7	One Anti-CRISPR to Rule Them All: Potent Inhibition of Cas9 Homologs Used for Genome Editing. SSRN Electronic Journal,	1	1
6	NmeCas9 is an intrinsically high-fidelity genome editing platform		4
5	Orthogonal CRISPR-Cas genome editing and efficient inhibition with anti-CRISPRs in zebrafish embryos	5	1
4	Potent Cas9 inhibition in bacterial and human cells by new anti-CRISPR protein families		1
3	5? Modifications Improve Potency and Efficacy of DNA Donors for Precision Genome Editing		8
2	Tissue-specific Genome Editing in vivo by MicroRNA-repressible Anti-CRISPR Proteins		1
1	Efficient Homology-directed Repair with Circular ssDNA Donors		7