Luciano A Marraffini

List of Publications by Year in descending order

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		41258	66788
80	31,318	49	78
papers	citations	h-index	g-index
122 all docs	122 docs citations	122 times ranked	34451 citing authors

#	Article	IF	CITATIONS
1	Different modes of spacer acquisition by the <i>Staphylococcus epidermidis</i> type III-A CRISPR-Cas system. Nucleic Acids Research, 2022, 50, 1661-1672.	6.5	7
2	Turning CRISPR on with antibiotics. Cell Host and Microbe, 2022, 30, 12-14.	5.1	2
3	Cleavage of viral DNA by restriction endonucleases stimulates the type II CRISPR-Cas immune response. Molecular Cell, 2022, 82, 907-919.e7.	4.5	29
4	The Card1 nuclease provides defence during typeÂIII CRISPR immunity. Nature, 2021, 590, 624-629.	13.7	76
5	From the discovery of DNA to current tools for DNA editing. Journal of Experimental Medicine, 2021, 218, .	4.2	2
6	Type III-A CRISPR immunity promotes mutagenesis of staphylococci. Nature, 2021, 592, 611-615.	13.7	29
7	Viral recombination systems limit CRISPR-Cas targeting through the generation of escape mutations. Cell Host and Microbe, 2021, 29, 1482-1495.e12.	5.1	12
8	OUP accepted manuscript. Nucleic Acids Research, 2021, 49, 3546-3556.	6.5	9
9	Prophage integration into CRISPR loci enables evasion of antiviral immunity in Streptococcus pyogenes. Nature Microbiology, 2021, 6, 1516-1525.	5.9	34
10	Molecular Mechanisms of CRISPR-Cas Immunity in Bacteria. Annual Review of Genetics, 2020, 54, 93-120.	3.2	94
11	Shoot the Messenger! A New Phage Weapon to Neutralize the Type III CRISPR Immune Response. Molecular Cell, 2020, 78, 568-569.	4.5	Ο
12	A phage-encoded anti-CRISPR enables complete evasion of type VI-A CRISPR-Cas immunity. Science, 2020, 369, 54-59.	6.0	77
13	Activation and self-inactivation mechanisms of the cyclic oligoadenylate-dependent CRISPR ribonuclease Csm6. Nature Communications, 2020, 11, 1596.	5.8	67
14	Co-evolution within structured bacterial communities results in multiple expansion of CRISPR loci and enhanced immunity. ELife, 2020, 9, .	2.8	26
15	Cas9 Cleavage of Viral Genomes Primes the Acquisition of New Immunological Memories. Cell Host and Microbe, 2019, 26, 515-526.e6.	5.1	46
16	Non-specific degradation of transcripts promotes plasmid clearance during type III-A CRISPR–Cas immunity. Nature Microbiology, 2019, 4, 656-662.	5.9	128
17	Spacer Acquisition Rates Determine the Immunological Diversity of the Type II CRISPR-Cas Immune Response. Cell Host and Microbe, 2019, 25, 242-249.e3.	5.1	24
18	Cas13-induced cellular dormancy prevents the rise of CRISPR-resistant bacteriophage. Nature, 2019, 570, 241-245.	13.7	216

LUCIANO A MARRAFFINI

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19	A High-Throughput Platform to Identify Small-Molecule Inhibitors of CRISPR-Cas9. Cell, 2019, 177, 1067-1079.e19.	13.5	133
20	Three New Cs for CRISPR: Collateral, Communicate, Cooperate. Trends in Genetics, 2019, 35, 446-456.	2.9	34
21	Recombination between phages and CRISPRâ^'cas loci facilitates horizontal gene transfer in staphylococci. Nature Microbiology, 2019, 4, 956-963.	5.9	42
22	(Ph)ighting Phages: How Bacteria Resist Their Parasites. Cell Host and Microbe, 2019, 25, 184-194.	5.1	190
23	Molecular mechanisms of CRISPR–Cas spacer acquisition. Nature Reviews Microbiology, 2019, 17, 7-12.	13.6	194
24	Type III-A CRISPR-Cas Csm Complexes: Assembly, Periodic RNA Cleavage, DNase Activity Regulation, and Autoimmunity. Molecular Cell, 2019, 73, 264-277.e5.	4.5	77
25	Dynamics of Cas10 Govern Discrimination between Self and Non-self in Type III CRISPR-Cas Immunity. Molecular Cell, 2019, 73, 278-290.e4.	4.5	58
26	Incomplete prophage tolerance by type III-A CRISPR-Cas systems reduces the fitness of lysogenic hosts. Nature Communications, 2018, 9, 61.	5.8	37
27	lf You'd Like to Stop a Type III CRISPR Ribonuclease, Then You Should Put a Ring (Nuclease) on It. Molecular Cell, 2018, 72, 608-609.	4.5	2
28	Enhanced Bacterial Immunity and Mammalian Genome Editing via RNA-Polymerase-Mediated Dislodging of Cas9 from Double-Strand DNA Breaks. Molecular Cell, 2018, 71, 42-55.e8.	4.5	112
29	RNA Guide Complementarity Prevents Self-Targeting in Type VI CRISPR Systems. Molecular Cell, 2018, 71, 791-801.e3.	4.5	79
30	Viral Teamwork Pushes CRISPR to the Breaking Point. Cell, 2018, 174, 772-774.	13.5	6
31	CRISPR–Cas systems exploit viral DNA injection to establish and maintain adaptive immunity. Nature, 2017, 544, 101-104.	13.7	140
32	Mutations in Cas9 Enhance the Rate of Acquisition of Viral Spacer Sequences during the CRISPR-Cas Immune Response. Molecular Cell, 2017, 65, 168-175.	4.5	47
33	Sensing danger. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 15-16.	3.3	7
34	Broad Targeting Specificity during Bacterial Type III CRISPR-Cas Immunity Constrains Viral Escape. Cell Host and Microbe, 2017, 22, 343-353.e3.	5.1	118
35	Type III CRISPR-Cas systems: when DNA cleavage just isn't enough. Current Opinion in Microbiology, 2017, 37, 150-154.	2.3	53
36	Type III CRISPR–Cas systems produce cyclic oligoadenylate second messengers. Nature, 2017, 548, 543-548.	13.7	377

LUCIANO A MARRAFFINI

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37	CRISPR-Cas Systems Optimize Their Immune Response by Specifying the Site of Spacer Integration. Molecular Cell, 2016, 64, 616-623.	4.5	97
38	Impact of Different Target Sequences on Type III CRISPR-Cas Immunity. Journal of Bacteriology, 2016, 198, 941-950.	1.0	46
39	Degradation of Phage Transcripts by CRISPR-Associated RNases Enables Type III CRISPR-Cas Immunity. Cell, 2016, 164, 710-721.	13.5	194
40	CRISPR goes retro. Science, 2016, 351, 920-921.	6.0	1
41	Cas9 specifies functional viral targets during CRISPR–Cas adaptation. Nature, 2015, 519, 199-202.	13.7	330
42	CRISPR-Cas: New Tools for Genetic Manipulations from Bacterial Immunity Systems. Annual Review of Microbiology, 2015, 69, 209-228.	2.9	160
43	Co-transcriptional DNA and RNA Cleavage during Type III CRISPR-Cas Immunity. Cell, 2015, 161, 1164-1174.	13.5	367
44	CRISPR-Cas immunity in prokaryotes. Nature, 2015, 526, 55-61.	13.7	657
45	Resistance and tolerance to foreign elements by prokaryotic immune systems — curating the genome. Nature Reviews Immunology, 2015, 15, 717-724.	10.6	29
46	CRISPR-Cas Systems: Prokaryotes Upgrade to Adaptive Immunity. Molecular Cell, 2014, 54, 234-244.	4.5	633
47	Impact of CRISPR immunity on the emergence and virulence of bacterial pathogens. Current Opinion in Microbiology, 2014, 17, 82-90.	2.3	64
48	Adapting to new threats: the generation of memory by <scp>CRISPRâ€Cas</scp> immune systems. Molecular Microbiology, 2014, 93, 1-9.	1.2	80
49	Genetic Characterization of Antiplasmid Immunity through a Type III-A CRISPR-Cas System. Journal of Bacteriology, 2014, 196, 310-317.	1.0	154
50	Exploiting CRISPR-Cas nucleases to produce sequence-specific antimicrobials. Nature Biotechnology, 2014, 32, 1146-1150.	9.4	718
51	Conditional tolerance of temperate phages via transcription-dependent CRISPR-Cas targeting. Nature, 2014, 514, 633-637.	13.7	257
52	Harnessing CRISPR-Cas9 immunity for genetic engineering. Current Opinion in Microbiology, 2014, 19, 114-119.	2.3	67
53	Mobile DNA: an evolving field. Mobile DNA, 2014, 5, 16.	1.3	0
54	DNA targeting specificity of RNA-guided Cas9 nucleases. Nature Biotechnology, 2013, 31, 827-832.	9.4	3,953

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55	A Ruler Protein in a Complex for Antiviral Defense Determines the Length of Small Interfering CRISPR RNAs. Journal of Biological Chemistry, 2013, 288, 27888-27897.	1.6	123
56	Multiplex Genome Engineering Using CRISPR/Cas Systems. Science, 2013, 339, 819-823.	6.0	12,725
57	RNA-guided editing of bacterial genomes using CRISPR-Cas systems. Nature Biotechnology, 2013, 31, 233-239.	9.4	2,071
58	CRISPR decoys. RNA Biology, 2013, 10, 694-699.	1.5	2
59	Dealing with the Evolutionary Downside of CRISPR Immunity: Bacteria and Beneficial Plasmids. PLoS Genetics, 2013, 9, e1003844.	1.5	227
60	CRISPR-Cas Immunity against Phages: Its Effects on the Evolution and Survival of Bacterial Pathogens. PLoS Pathogens, 2013, 9, e1003765.	2.1	34
61	Programmable repression and activation of bacterial gene expression using an engineered CRISPR-Cas system. Nucleic Acids Research, 2013, 41, 7429-7437.	6.5	960
62	Control of gene expression by CRISPR-Cas systems. F1000prime Reports, 2013, 5, 47.	5.9	41
63	CRISPR Interference Can Prevent Natural Transformation and Virulence Acquisition during InÂVivo Bacterial Infection. Cell Host and Microbe, 2012, 12, 177-186.	5.1	284
64	Innate and adaptive immunity in bacteria: mechanisms of programmed genetic variation to fight bacteriophages. Current Opinion in Immunology, 2012, 24, 15-20.	2.4	96
65	Mature clustered, regularly interspaced, short palindromic repeats RNA (crRNA) length is measured by a ruler mechanism anchored at the precursor processing site. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 21218-21222.	3.3	181
66	Self versus non-self discrimination during CRISPR RNA-directed immunity. Nature, 2010, 463, 568-571.	13.7	552
67	Slicer for DNA. Nature, 2010, 468, 45-46.	13.7	16
68	CRISPR interference: RNA-directed adaptive immunity in bacteria and archaea. Nature Reviews Genetics, 2010, 11, 181-190.	7.7	854
69	Impact of CRIPSR immunity on the emergence of bacterial pathogens. Future Microbiology, 2010, 5, 693-695.	1.0	8
70	Invasive DNA, Chopped and in the CRISPR. Structure, 2009, 17, 786-788.	1.6	23
71	CRISPR Interference Limits Horizontal Gene Transfer in Staphylococci by Targeting DNA. Science, 2008, 322, 1843-1845.	6.0	1,473
72	Amide bonds assemble pili on the surface of bacilli. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10215-10220.	3.3	76

LUCIANO A MARRAFFINI

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73	Sortase C-Mediated Anchoring of BasI to the Cell Wall Envelope of Bacillus anthracis. Journal of Bacteriology, 2007, 189, 6425-6436.	1.0	35
74	Assembly of pili on the surface of <i>Bacillus cereus</i> vegetative cells. Molecular Microbiology, 2007, 66, 495-510.	1.2	91
75	Targeting proteins to the cell wall of sporulating Bacillus anthracis. Molecular Microbiology, 2006, 62, 1402-1417.	1.2	91
76	Sortases and the Art of Anchoring Proteins to the Envelopes of Gram-Positive Bacteria. Microbiology and Molecular Biology Reviews, 2006, 70, 192-221.	2.9	569
77	Bacillus anthracis Sortase A (SrtA) Anchors LPXTG Motif-Containing Surface Proteins to the Cell Wall Envelope. Journal of Bacteriology, 2005, 187, 4646-4655.	1.0	76
78	Anchor Structure of Staphylococcal Surface Proteins. Journal of Biological Chemistry, 2005, 280, 16263-16271.	1.6	65
79	Anchoring of Surface Proteins to the Cell Wall of Staphylococcus aureus. Journal of Biological Chemistry, 2004, 279, 37763-37770.	1.6	71
80	Sortases and pilin elements involved in pilus assembly of Corynebacterium diphtheriae. Molecular Microbiology, 2004, 53, 251-261.	1.2	173