

Rotem Sorek

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

15,424
citations

41323

49
h-index

62565

80
g-index

94
all docs

94
docs citations

94
times ranked

15551
citing authors

#	ARTICLE	IF	CITATIONS
1	Metagenomic and functional analysis of hindgut microbiota of a wood-feeding higher termite. <i>Nature</i> , 2007, 450, 560-565.	13.7	1,181
2	CRISPR – a widespread system that provides acquired resistance against phages in bacteria and archaea. <i>Nature Reviews Microbiology</i> , 2008, 6, 181-186.	13.6	789
3	Systematic discovery of antiphage defense systems in the microbial pangenome. <i>Science</i> , 2018, 359, .	6.0	776
4	Widespread occurrence of antisense transcription in the human genome. <i>Nature Biotechnology</i> , 2003, 21, 379-386.	9.4	607
5	CRISPR-Mediated Adaptive Immune Systems in Bacteria and Archaea. <i>Annual Review of Biochemistry</i> , 2013, 82, 237-266.	5.0	557
6	Transcriptome-wide discovery of circular RNAs in Archaea. <i>Nucleic Acids Research</i> , 2012, 40, 3131-3142.	6.5	482
7	Communication between viruses guides lysis – lysogeny decisions. <i>Nature</i> , 2017, 541, 488-493.	13.7	465
8	The phage – host arms race: Shaping the evolution of microbes. <i>BioEssays</i> , 2011, 33, 43-51.	1.2	414
9	Prokaryotic transcriptomics: a new view on regulation, physiology and pathogenicity. <i>Nature Reviews Genetics</i> , 2010, 11, 9-16.	7.7	397
10	<scp>BREX</scp> is a novel phage resistance system widespread in microbial genomes. <i>EMBO Journal</i> , 2015, 34, 169-183.	3.5	395
11	Genome-Wide Experimental Determination of Barriers to Horizontal Gene Transfer. <i>Science</i> , 2007, 318, 1449-1452.	6.0	383
12	Evolutionary conservation of sequence and secondary structures in CRISPR repeats. <i>Genome Biology</i> , 2007, 8, R61.	13.9	382
13	Growth dynamics of gut microbiota in health and disease inferred from single metagenomic samples. <i>Science</i> , 2015, 349, 1101-1106.	6.0	382
14	Cyclic GMP – AMP signalling protects bacteria against viral infection. <i>Nature</i> , 2019, 574, 691-695.	13.7	370
15	The pan-immune system of bacteria: antiviral defence as a community resource. <i>Nature Reviews Microbiology</i> , 2020, 18, 113-119.	13.6	368
16	Self-targeting by CRISPR: gene regulation or autoimmunity?. <i>Trends in Genetics</i> , 2010, 26, 335-340.	2.9	353
17	A single-base resolution map of an archaeal transcriptome. <i>Genome Research</i> , 2010, 20, 133-141.	2.4	348
18	CRISPR adaptation biases explain preference for acquisition of foreign DNA. <i>Nature</i> , 2015, 520, 505-510.	13.7	346

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19	CRISPR-Cas adaptation: insights into the mechanism of action. <i>Nature Reviews Microbiology</i> , 2016, 14, 67-76.	13.6	324
20	Term-seq reveals abundant ribo-regulation of antibiotics resistance in bacteria. <i>Science</i> , 2016, 352, aad9822.	6.0	294
21	In search of antisense. <i>Trends in Biochemical Sciences</i> , 2004, 29, 88-94.	3.7	277
22	Transcriptome-Wide Mapping of 5-methylcytidine RNA Modifications in Bacteria, Archaea, and Yeast Reveals m5C within Archaeal mRNAs. <i>PLoS Genetics</i> , 2013, 9, e1003602.	1.5	274
23	Comparative transcriptomics of pathogenic and non-pathogenic <i>Listeria</i> species. <i>Molecular Systems Biology</i> , 2012, 8, 583.	3.2	269
24	Genomic island variability facilitates <i>Prochlorococcus</i> virus coexistence. <i>Nature</i> , 2011, 474, 604-608.	13.7	267
25	Abortive Infection: Bacterial Suicide as an Antiviral Immune Strategy. <i>Annual Review of Virology</i> , 2020, 7, 371-384.	3.0	247
26	STING cyclic dinucleotide sensing originated in bacteria. <i>Nature</i> , 2020, 586, 429-433.	13.7	246
27	The Single-Nucleotide Resolution Transcriptome of <i>Pseudomonas aeruginosa</i> Grown in Body Temperature. <i>PLoS Pathogens</i> , 2012, 8, e1002945.	2.1	240
28	DISARM is a widespread bacterial defence system with broad anti-phage activities. <i>Nature Microbiology</i> , 2018, 3, 90-98.	5.9	225
29	Bacterial Retrons Function In Anti-Phage Defense. <i>Cell</i> , 2020, 183, 1551-1561.e12.	13.5	208
30	CRISPR targeting reveals a reservoir of common phages associated with the human gut microbiome. <i>Genome Research</i> , 2012, 22, 1985-1994.	2.4	185
31	Validation of two ribosomal RNA removal methods for microbial metatranscriptomics. <i>Nature Methods</i> , 2010, 7, 807-812.	9.0	184
32	Contemporary Phage Biology: From Classic Models to New Insights. <i>Cell</i> , 2018, 172, 1260-1270.	13.5	176
33	Prokaryotic viperins produce diverse antiviral molecules. <i>Nature</i> , 2021, 589, 120-124.	13.7	172
34	Diversity and classification of cyclic-oligonucleotide-based anti-phage signalling systems. <i>Nature Microbiology</i> , 2020, 5, 1608-1615.	5.9	160
35	Antiviral activity of bacterial TIR domains via immune signalling molecules. <i>Nature</i> , 2021, 600, 116-120.	13.7	159
36	Cyclic CMP and cyclic UMP mediate bacterial immunity against phages. <i>Cell</i> , 2021, 184, 5728-5739.e16.	13.5	156

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37	The excludon: a new concept in bacterial antisense RNA-mediated gene regulation. <i>Nature Reviews Microbiology</i> , 2013, 11, 75-82.	13.6	152
38	Sequestration of a two-component response regulator by a riboswitch-regulated noncoding RNA. <i>Science</i> , 2014, 345, 940-943.	6.0	145
39	Bacterial gasdermins reveal an ancient mechanism of cell death. <i>Science</i> , 2022, 375, 221-225.	6.0	132
40	Discovery of Functional Toxin/Antitoxin Systems in Bacteria by Shotgun Cloning. <i>Molecular Cell</i> , 2013, 50, 136-148.	4.5	125
41	Optimality and sub-optimality in a bacterial growth law. <i>Nature Communications</i> , 2017, 8, 14123.	5.8	102
42	Bacterial origins of human cell-autonomous innate immune mechanisms. <i>Nature Reviews Immunology</i> , 2022, 22, 629-638.	10.6	98
43	High-resolution RNA 3'-ends mapping of bacterial Rho-dependent transcripts. <i>Nucleic Acids Research</i> , 2018, 46, 6797-6805.	6.5	88
44	Transcriptome dynamics of a broad host-range cyanophage and its hosts. <i>ISME Journal</i> , 2016, 10, 1437-1455.	4.4	84
45	The DarTC toxin-antitoxin system provides phage defence by ADP-ribosylating viral DNA. <i>Nature Microbiology</i> , 2022, 7, 1028-1040.	5.9	78
46	Widespread Utilization of Peptide Communication in Phages Infecting Soil and Pathogenic Bacteria. <i>Cell Host and Microbe</i> , 2019, 25, 746-755.e5.	5.1	77
47	A Global Transcriptional Switch between the Attack and Growth Forms of <i>Bdellovibrio bacteriovorus</i> . <i>PLoS ONE</i> , 2013, 8, e61850.	1.1	76
48	A vast collection of microbial genes that are toxic to bacteria. <i>Genome Research</i> , 2012, 22, 802-809.	2.4	71
49	Phage anti-CBASS and anti-Pycsar nucleases subvert bacterial immunity. <i>Nature</i> , 2022, 605, 522-526.	13.7	70
50	A genome assembly and the somatic genetic and epigenetic mutation rate in a wild long-lived perennial <i>Populus trichocarpa</i> . <i>Genome Biology</i> , 2020, 21, 259.	3.8	68
51	Differential Translation Tunes Uneven Production of Operon-Encoded Proteins. <i>Cell Reports</i> , 2013, 4, 938-944.	2.9	64
52	Extensive reshaping of bacterial operons by programmed mRNA decay. <i>PLoS Genetics</i> , 2018, 14, e1007354.	1.5	60
53	Effector-mediated membrane disruption controls cell death in CBASS antiphage defense. <i>Molecular Cell</i> , 2021, 81, 5039-5051.e5.	4.5	59
54	Widespread formation of alternative 3' UTR isoforms via transcription termination in archaea. <i>Nature Microbiology</i> , 2016, 1, 16143.	5.9	58

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55	Bacteria deplete deoxynucleotides to defend against bacteriophage infection. <i>Nature Microbiology</i> , 2022, 7, 1200-1209.	5.9	58
56	Quantitative species-level ecology of reef fish larvae via metabarcoding. <i>Nature Ecology and Evolution</i> , 2018, 2, 306-316.	3.4	56
57	Bacterial Noncoding RNAs Excised from within Protein-Coding Transcripts. <i>MBio</i> , 2018, 9, .	1.8	46
58	Mutation Detection with Next-Generation Resequencing through a Mediator Genome. <i>PLoS ONE</i> , 2010, 5, e15628.	1.1	45
59	SnapShot: Bacterial immunity. <i>Cell</i> , 2022, 185, 578-578.e1.	13.5	45
60	HflXr, a homolog of a ribosome-splitting factor, mediates antibiotic resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 13359-13364.	3.3	41
61	A <i>rhII</i> 5' UTR-Derived sRNA Regulates RhIR-Dependent Quorum Sensing in <i>Pseudomonas aeruginosa</i> . <i>MBio</i> , 2019, 10, .	1.8	40
62	Vesicles Spread Susceptibility to Phages. <i>Cell</i> , 2017, 168, 13-15.	13.5	39
63	Comparative transcriptomics across the prokaryotic tree of life. <i>Nucleic Acids Research</i> , 2016, 44, W46-W53.	6.5	35
64	Regulation of antibiotic-resistance by non-coding RNAs in bacteria. <i>Current Opinion in Microbiology</i> , 2017, 36, 111-117.	2.3	33
65	RNA-seq analysis of small RNPs in <i>Trypanosoma brucei</i> reveals a rich repertoire of non-coding RNAs. <i>Nucleic Acids Research</i> , 2012, 40, 1282-1298.	6.5	32
66	Computational prediction of regulatory, premature transcription termination in bacteria. <i>Nucleic Acids Research</i> , 2017, 45, 886-893.	6.5	30
67	Repeat Size Determination by Two Molecular Rulers in the Type I-E CRISPR Array. <i>Cell Reports</i> , 2016, 16, 2811-2818.	2.9	27
68	Computational evaluation of cellular metabolic costs successfully predicts genes whose expression is deleterious. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19166-19171.	3.3	21
69	Viruses cooperate to defeat bacteria. <i>Nature</i> , 2018, 559, 482-484.	13.7	15
70	High-resolution metagenomics. <i>Nature Biotechnology</i> , 2014, 32, 750-751.	9.4	13
71	Holding a grudge. <i>RNA Biology</i> , 2013, 10, 900-906.	1.5	12
72	Evidence for a cytoplasmic pool of ribosome-free mRNAs encoding inner membrane proteins in <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2017, 12, e0183862.	1.1	12

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73	Peptide-based quorum sensing systems in <i>Paenibacillus polymyxa</i> . Life Science Alliance, 2020, 3, e202000847.	1.3	11
74	Intracellular signaling in CRISPR-Cas defense. Science, 2017, 357, 550-551.	6.0	10
75	PanDaTox. Bioengineered, 2012, 3, 218-221.	1.4	8
76	Natural selection underlies apparent stress-induced mutagenesis in a bacteriophage infection model. Nature Microbiology, 2016, 1, 16047.	5.9	7
77	Successful Brincidofovir Treatment of Metagenomics-detected Adenovirus Infection in a Severely Ill Signal Transducer and Activator of Transcription-1-deficient Patient. Pediatric Infectious Disease Journal, 2019, 38, 297-299.	1.1	7
78	Bacterial genomes: from regulatory complexity to engineering. Current Opinion in Microbiology, 2011, 14, 577-578.	2.3	3
79	A treasure trove of molecular scissors. Science, 2021, 374, 37-38.	6.0	3
80	CRISPR-Cas: Spacer Diversity Determines the Efficiency of Defense. Current Biology, 2016, 26, R683-R685.	1.8	1
81	Ribosomal protein genes form a barrier to horizontal gene transfer. FASEB Journal, 2009, 23, LB206.	0.2	0