Udi Qimron

List of Publications by Citations

59 papers	3,436 citations	25 h-index	58 g-index
65 ext. papers	4,058 ext. citations	11.7 avg, IF	5.41 L-index

#	Paper	IF	Citations
59	Proteins and DNA elements essential for the CRISPR adaptation process in Escherichia coli. *Nucleic Acids Research*, **2012**, 40, 5569-76	20.1	484
58	Lethal influenza infection in the absence of the natural killer cell receptor gene Ncr1. *Nature Immunology*, **2006**, 7, 517-23	19.1	438
57	CRISPR adaptation biases explain preference for acquisition of foreign DNA. *Nature*, **2015**, 520, 505-510	50.4	275
56	Temperate and lytic bacteriophages programmed to sensitize and kill antibiotic-resistant bacteria. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 7267-72	11.5	267
55	Adaptation in CRISPR-Cas Systems. *Molecular Cell*, **2016**, 61, 797-808	17.6	148
54	Genomewide screens for Escherichia coli genes affecting growth of T7 bacteriophage. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 19039-44	11.5	139
53	The Escherichia coli CRISPR system protects from lysogenization, lysogens, and prophage induction. *Journal of Bacteriology*, **2010**, 192, 6291-4	3.5	131
52	Reversing bacterial resistance to antibiotics by phage-mediated delivery of dominant sensitive genes. *Applied and Environmental Microbiology*, **2012**, 78, 744-51	4.8	129
51	Membrane-associated heparan sulfate proteoglycans are involved in the recognition of cellular targets by NKp30 and NKp46. *Journal of Immunology*, **2004**, 173, 2392-401	5.3	120
50	Global phylogeography and ancient evolution of the widespread human gut virus crAssphage. *Nature Microbiology*, **2019**, 4, 1727-1736	26.6	100
49	Efficient engineering of a bacteriophage genome using the type I-E CRISPR-Cas system. *RNA Biology*, **2014**, 11, 42-4	4.8	94
48	Discovery of functional toxin/antitoxin systems in bacteria by shotgun cloning. *Molecular Cell*, **2013**, 50, 136-48	17.6	91
47	Dynamic DNA helicase-DNA polymerase interactions assure processive replication fork movement. *Molecular Cell*, **2007**, 27, 539-49	17.6	91
46	Extending the Host Range of Bacteriophage Particles for DNA Transduction. *Molecular Cell*, **2017**, 66, 721-728.e3	17.6	79
45	High-temperature protein G is essential for activity of the Escherichia coli clustered regularly interspaced short palindromic repeats (CRISPR)/Cas system. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 20136-41	11.5	69
44	Activated Eosinophils Exert Antitumorigenic Activities in Colorectal Cancer. *Cancer Immunology Research*, **2019**, 7, 388-400	12.5	64
43	The mechanisms controlling NK cell autoreactivity in TAP2-deficient patients. *Blood*, **2004**, 103, 1770-8	2.2	56

42	DNA motifs determining the efficiency of adaptation into the Escherichia coli CRISPR array. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 14396-401	11.5	53
41	Oligomeric states of bacteriophage T7 gene 4 primase/helicase. *Journal of Molecular Biology*, **2006**, 360, 667-77	6.5	53
40	Role of a conserved arginine in the mechanism of acetohydroxyacid synthase: catalysis of condensation with a specific ketoacid substrate. *Journal of Biological Chemistry*, **2004**, 279, 24803-12	5.4	47
39	Experimental definition of a clustered regularly interspaced short palindromic duplicon in Escherichia coli. *Journal of Molecular Biology*, **2012**, 423, 14-6	6.5	42
38	A technological and regulatory outlook on CRISPR crop editing. *Journal of Cellular Biochemistry*, **2018**, 119, 1291-1298	4.7	37
37	Gene product 0.4 increases bacteriophage T7 competitiveness by inhibiting host cell division. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 19549-54	11.5	31
36	Identification of Salmonella typhimurium genes responsible for interference with peptide presentation on MHC class I molecules: Deltayej Salmonella mutants induce superior CD8+ T-cell responses. *Cellular Microbiology*, **2004**, 6, 1057-70	3.9	30
35	Primer initiation and extension by T7 DNA primase. *EMBO Journal*, **2006**, 25, 2199-208	13	26
34	Sensitizing pathogens to antibiotics using the CRISPR-Cas system. *Drug Resistance Updates*, **2017**, 30, 1-6	23.2	24
33	Phage T7 DNA mimic protein Ocr is a potent inhibitor of BREX defence. *Nucleic Acids Research*, **2020**, 48, 5397-5406	20.1	23
32	The bacterial CRISPR/Cas system as analog of the mammalian adaptive immune system. *RNA Biology*, **2012**, 9, 549-54	4.8	22
31	Repeat Size Determination by Two Molecular Rulers in the Type I-E CRISPR Array. *Cell Reports*, **2016** , 16, 2811-2818	10.6	21
30	A continuous evolution system for contracting the host range of bacteriophage T7. *Scientific Reports*, **2020**, 10, 307	4.9	20
29	T7 phage factor required for managing RpoS in. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E5353-E5362	11.5	19
28	CD300f:IL-5 cross-talk inhibits adipose tissue eosinophil homing and subsequent IL-4 production. *Scientific Reports*, **2017**, 7, 5922	4.9	18
27	Inadequate inhibition of host RNA polymerase restricts T7 bacteriophage growth on hosts overexpressing udk. *Molecular Microbiology*, **2008**, 67, 448-57	4.1	16
26	Different approaches for using bacteriophages against antibiotic-resistant bacteria. *Bacteriophage*, **2014**, 4, e28491		15
25	Revealing bacterial targets of growth inhibitors encoded by bacteriophage T7. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 18715-20	11.5	13

24	Communication between subunits critical to DNA binding by hexameric helicase of bacteriophage T7. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 8908-13	11.5	13
23	Full shut-off of Escherichia coli RNA-polymerase by T7 phage requires a small phage-encoded DNA-binding protein. *Nucleic Acids Research*, **2017**, 45, 7697-7707	20.1	12
22	Non-replicating mucosal and systemic vaccines: quantitative and qualitative differences in the Ag-specific CD8(+) T cell population in different tissues. *Vaccine*, **2004**, 22, 1390-4	4.1	12
21	Tumor vaccination by Salmonella typhimurium after transformation with a eukaryotic expression vector in mice: impact of a Salmonella typhimurium gene interfering with MHC class I presentation. *Journal of Immunotherapy*, **2005**, 28, 467-79	5	12
20	Programming Bacteriophages by Swapping Their Specificity Determinants. *Trends in Microbiology*, **2015**, 23, 744-746	12.4	11
19	Counteracting selection for antibiotic-resistant bacteria. *Bacteriophage*, **2016**, 6, e1096996		10
18	Gene 1.7 of bacteriophage T7 confers sensitivity of phage growth to dideoxythymidine. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 9373-8	11.5	10
17	CRISPR adaptation in Escherichia coli subtypeI-E system. *Biochemical Society Transactions*, **2013**, 41, 1412-5	3.1	9
16	Reliable determination of transposon insertion site in prokaryotes by direct sequencing. *Journal of Microbiological Methods*, **2003**, 54, 137-40	2.8	9
15	A genetic system for biasing the sex ratio in mice. *EMBO Reports*, **2019**, 20, e48269	6.5	9
14	Mutations in the gene 5 DNA polymerase of bacteriophage T7 suppress the dominant lethal phenotype of gene 2.5 ssDNA binding protein lacking the C-terminal phenylalanine. *Molecular Microbiology*, **2009**, 72, 869-80	4.1	8
13	Natural selection underlies apparent stress-induced mutagenesis in a bacteriophage infection model. *Nature Microbiology*, **2016**, 1, 16047	26.6	6
12	Microbiology: How bacteria get spacers from invaders. *Nature*, **2015**, 519, 166-7	50.4	5
11	Restoration of gene function by homologous recombination: from PCR to gene expression in one step. *Applied and Environmental Microbiology*, **2004**, 70, 7156-60	4.8	5
10	New Details about Bacteriophage T7-Host Interactions. *Microbe Magazine*, **2013**, 5, 117-122		5
9	Global phylogeography and ancient evolution of the widespread human gut virus crAssphage		5
8	Optimizing DNA transduction by selection of mutations that evade bacterial defense systems. *RNA Biology*, **2019**, 16, 595-599	4.8	4
7	Selection of Genetically Modified Bacteriophages Using the CRISPR-Cas System. *Bio-protocol*, **2017**, 7,	0.9	4

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6	Phenotypic heterogeneity in a bacteriophage population only appears as stress-induced mutagenesis. *Current Genetics*, **2016**, 62, 771-773	2.9	1
5	Using the CRISPR-Cas System to Positively Select Mutants in Genes Essential for Its Function. *Methods in Molecular Biology*, **2015**, 1311, 233-50	1.4	
4	Crystal-clear memories of a bacterium. *Science*, **2017**, 357, 1096-1097	33.3	
3	Mutations in the gene 5 DNA polymerase of bacteriophage T7 suppress the dominant lethal phenotype of gene 2.5 ssDNA binding protein lacking the C-terminal phenylalanine. *Molecular Microbiology*, **2009**, 73, 323-323	4.1	
2	Role of the linker between the zinc binding domain and the polymerization domain of the bacteriophage T7 DNA primase. *FASEB Journal*, **2006**, 20, A910	0.9	
1	Gene 1.7 of Bacteriophage T7 Confers Sensitivity of Phage Growth to Dideoxythymidine. *FASEB Journal*, **2008**, 22, 651.5	0.9	