

Rahul M Kohli

List of Publications by Citations

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76
papers

4,646
citations

32
h-index

68
g-index

82
ext. papers

5,454
ext. citations

11.4
avg, IF

5.86
L-index

#	Paper	IF	Citations
76	TET enzymes, TDG and the dynamics of DNA demethylation. <i>Nature</i> , 2013 , 502, 472-9	50.4	1026
75	Disruption of TET2 promotes the therapeutic efficacy of CD19-targeted T cells. <i>Nature</i> , 2018 , 558, 307-312	52.4	362
74	Peptide cyclization catalysed by the thioesterase domain of tyrocidine synthetase. <i>Nature</i> , 2000 , 407, 215-8	50.4	266
73	Biomimetic synthesis and optimization of cyclic peptide antibiotics. <i>Nature</i> , 2002 , 418, 658-61	50.4	241
72	AID/APOBEC deaminases disfavor modified cytosines implicated in DNA demethylation. <i>Nature Chemical Biology</i> , 2012 , 8, 751-8	11.7	238
71	Structural basis for the cyclization of the lipopeptide antibiotic surfactin by the thioesterase domain SrfTE. <i>Structure</i> , 2002 , 10, 301-10	5.2	184
70	The oxidative half-reaction of Old Yellow Enzyme. The role of tyrosine 196. <i>Journal of Biological Chemistry</i> , 1998 , 273, 32763-70	5.4	170
69	Generality of peptide cyclization catalyzed by isolated thioesterase domains of nonribosomal peptide synthetases. <i>Biochemistry</i> , 2001 , 40, 7099-108	3.2	132
68	The curious chemical biology of cytosine: deamination, methylation, and oxidation as modulators of genomic potential. <i>ACS Chemical Biology</i> , 2012 , 7, 20-30	4.9	122
67	Enzymology of acyl chain macrocyclization in natural product biosynthesis. <i>Chemical Communications</i> , 2003 , 297-307	5.8	113
66	A portable hot spot recognition loop transfers sequence preferences from APOBEC family members to activation-induced cytidine deaminase. <i>Journal of Biological Chemistry</i> , 2009 , 284, 22898-904	5.4	106
65	Cyclization of backbone-substituted peptides catalyzed by the thioesterase domain from the tyrocidine nonribosomal peptide synthetase. <i>Biochemistry</i> , 2001 , 40, 7092-8	3.2	94
64	Nondestructive, base-resolution sequencing of 5-hydroxymethylcytosine using a DNA deaminase. <i>Nature Biotechnology</i> , 2018 ,	44.5	91
63	Characterization of the surfactin synthetase C-terminal thioesterase domain as a cyclic depsipeptide synthase. <i>Biochemistry</i> , 2002 , 41, 13350-9	3.2	88
62	Type II thioesterase restores activity of a NRPS module stalled with an aminoacyl-S-enzyme that cannot be elongated. <i>ChemBioChem</i> , 2004 , 5, 1290-3	3.8	87
61	Targets for Combating the Evolution of Acquired Antibiotic Resistance. <i>Biochemistry</i> , 2015 , 54, 3573-82	3.2	84
60	The antiherpetic drug acyclovir inhibits HIV replication and selects the V75I reverse transcriptase multidrug resistance mutation. <i>Journal of Biological Chemistry</i> , 2008 , 283, 31289-93	5.4	71

59	Chain termination steps in nonribosomal peptide synthetase assembly lines: directed acyl-S-enzyme breakdown in antibiotic and siderophore biosynthesis. <i>ChemBioChem</i> , 2001 , 2, 99-107	3.8	68
58	The role of threonine 37 in flavin reactivity of the old yellow enzyme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 3556-61	11.5	64
57	Timing of epimerization and condensation reactions in nonribosomal peptide assembly lines: kinetic analysis of phenylalanine activating elongation modules of tyrocidine synthetase B. <i>Biochemistry</i> , 2002 , 41, 9184-96	3.2	63
56	Molecular biology. Demystifying DNA demethylation. <i>Science</i> , 2011 , 333, 1229-30	33.3	60
55	Local sequence targeting in the AID/APOBEC family differentially impacts retroviral restriction and antibody diversification. <i>Journal of Biological Chemistry</i> , 2010 , 285, 40956-64	5.4	58
54	Chemoenzymatic route to macrocyclic hybrid peptide/polyketide-like molecules. <i>Journal of the American Chemical Society</i> , 2003 , 125, 7160-1	16.4	57
53	Tet2 Catalyzes Stepwise 5-Methylcytosine Oxidation by an Iterative and de novo Mechanism. <i>Journal of the American Chemical Society</i> , 2016 , 138, 730-3	16.4	51
52	Systematically Altering Bacterial SOS Activity under Stress Reveals Therapeutic Strategies for Potentiating Antibiotics. <i>MSphere</i> , 2016 , 1,	5	50
51	The thioesterase domain from a nonribosomal peptide synthetase as a cyclization catalyst for integrin binding peptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 1247-52	11.5	50
50	Mutations along a TET2 active site scaffold stall oxidation at 5-hydroxymethylcytosine. <i>Nature Chemical Biology</i> , 2017 , 13, 181-187	11.7	45
49	APOBEC3 inhibition of mouse mammary tumor virus infection: the role of cytidine deamination versus inhibition of reverse transcription. <i>Journal of Virology</i> , 2013 , 87, 4808-17	6.6	45
48	Different modes of retrovirus restriction by human APOBEC3A and APOBEC3G in vivo. <i>PLoS Pathogens</i> , 2014 , 10, e1004145	7.6	43
47	A vitamin-C-derived DNA modification catalysed by an algal TET homologue. <i>Nature</i> , 2019 , 569, 581-585	50.4	41
46	Specificity determinants for autoproteolysis of LexA, a key regulator of bacterial SOS mutagenesis. <i>Biochemistry</i> , 2014 , 53, 3158-68	3.2	37
45	APOBEC3A efficiently deaminates methylated, but not TET-oxidized, cytosine bases in DNA. <i>Nucleic Acids Research</i> , 2017 , 45, 7655-7665	20.1	35
44	Inhibitors of LexA Autoproteolysis and the Bacterial SOS Response Discovered by an Academic-Industry Partnership. <i>ACS Infectious Diseases</i> , 2018 , 4, 349-359	5.5	28
43	OGT binds a conserved C-terminal domain of TET1 to regulate TET1 activity and function in development. <i>ELife</i> , 2018 , 7,	8.9	27
42	High-performance CRISPR-Cas12a genome editing for combinatorial genetic screening. <i>Nature Communications</i> , 2020 , 11, 3455	17.4	26

41	Nucleic acid determinants for selective deamination of DNA over RNA by activation-induced deaminase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 14225-30	11.5	25
40	Selectivity and Promiscuity in TET-Mediated Oxidation of 5-Methylcytosine in DNA and RNA. <i>Biochemistry</i> , 2019 , 58, 411-421	3.2	22
39	Non-equilibrium repressor binding kinetics link DNA damage dose to transcriptional timing within the SOS gene network. <i>PLoS Genetics</i> , 2018 , 14, e1007405	6	21
38	Enhanced macrocyclizing activity of the thioesterase from tyrocidine synthetase in presence of nonionic detergent. <i>Chemistry and Biology</i> , 2004 , 11, 1573-82		21
37	The expanding scope and impact of epigenetic cytosine modifications. <i>Current Opinion in Chemical Biology</i> , 2016 , 33, 67-73	9.7	19
36	Systematic Evaluation of Soluble Protein Expression Using a Fluorescent Unnatural Amino Acid Reveals No Reliable Predictors of Tolerability. <i>ACS Chemical Biology</i> , 2018 , 13, 2855-2861	4.9	19
35	Improving target amino acid selectivity in a permissive aminoacyl tRNA synthetase through counter-selection. <i>Organic and Biomolecular Chemistry</i> , 2017 , 15, 3603-3610	3.9	16
34	Solid-State Nanopore Analysis of Diverse DNA Base Modifications Using a Modular Enzymatic Labeling Process. <i>Nano Letters</i> , 2017 , 17, 7110-7116	11.5	15
33	Improving the Fluorescent Probe Acridonylalanine Through a Combination of Theory and Experiment. <i>Journal of Physical Organic Chemistry</i> , 2018 , 31, e3813	2.1	13
32	TET-mediated 5-methylcytosine oxidation in tRNA promotes translation. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100087	5.4	12
31	Exploiting Substrate Promiscuity To Develop Activity-Based Probes for Ten-Eleven Translocation Family Enzymes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17329-17332	16.4	12
30	High-throughput mutagenesis reveals functional determinants for DNA targeting by activation-induced deaminase. <i>Nucleic Acids Research</i> , 2014 , 42, 9964-75	20.1	11
29	The Kinetic and Molecular Basis for the Interaction of LexA and Activated RecA Revealed by a Fluorescent Amino Acid Probe. <i>ACS Chemical Biology</i> , 2020 , 15, 1127-1133	4.9	10
28	The SOS Response Mediates Sustained Colonization of the Mammalian Gut. <i>Infection and Immunity</i> , 2019 , 87,	3.7	10
27	Advancement of the 5-Amino-1-(Carbamoylmethyl)-1H-1,2,3-Triazole-4-Carboxamide Scaffold to Disarm the Bacterial SOS Response. <i>Frontiers in Microbiology</i> , 2018 , 9, 2961	5.7	10
26	Harnessing natural DNA modifying activities for editing of the genome and epigenome. <i>Current Opinion in Chemical Biology</i> , 2018 , 45, 10-17	9.7	9
25	Functionally distinct roles for TET-oxidized 5-methylcytosine bases in somatic reprogramming to pluripotency. <i>Molecular Cell</i> , 2021 , 81, 859-869.e8	17.6	9
24	Nucleobase Modifiers Identify TET Enzymes as Bifunctional DNA Dioxygenases Capable of Direct N-Demethylation. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 11312-11315	16.4	8

23	Site-directed mutagenesis using PCR-mediated introduction of silent mutations. <i>BioTechniques</i> , 1998 , 25, 184-8	2.5	7
22	TET-TDG Active DNA Demethylation at CpG and Non-CpG Sites. <i>Journal of Molecular Biology</i> , 2021 , 433, 166877	6.5	6
21	BET bromodomain protein inhibition reverses chimeric antigen receptor extinction and reinvigorates exhausted T cells in chronic lymphocytic leukemia. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	6
20	Mutant-IDH inhibits Interferon-TET2 signaling to promote immunoevasion and tumor maintenance in cholangiocarcinoma. <i>Cancer Discovery</i> , 2021 ,	24.4	5
19	Targeting evolution to inhibit antibiotic resistance. <i>FEBS Journal</i> , 2020 , 287, 4341-4353	5.7	4
18	A Small-Molecule Inducible Synthetic Circuit for Control of the SOS Gene Network without DNA Damage. <i>ACS Synthetic Biology</i> , 2017 , 6, 2067-2076	5.7	4
17	Sensitivity of V75I HIV-1 reverse transcriptase mutant selected in vitro by acyclovir to anti-HIV drugs. <i>Aids</i> , 2010 , 24, 319-23	3.5	4
16	Grand challenge commentary: The chemistry of a dynamic genome. <i>Nature Chemical Biology</i> , 2010 , 6, 866-8	11.7	3
15	SARS-CoV-2 spike protein binding selectively accelerates substrate-specific catalytic activity of ACE2. <i>Journal of Biochemistry</i> , 2021 , 170, 299-306	3.1	3
14	Discovery of an Unnatural DNA Modification Derived from a Natural Secondary Metabolite. <i>Cell Chemical Biology</i> , 2021 , 28, 97-104.e4	8.2	3
13	High-Resolution Analysis of 5-Hydroxymethylcytosine by TET-Assisted Bisulfite Sequencing. <i>Methods in Molecular Biology</i> , 2021 , 2198, 321-331	1.4	3
12	Bisulfite-Free Sequencing of 5-Hydroxymethylcytosine with APOBEC-Coupled Epigenetic Sequencing (ACE-Seq). <i>Methods in Molecular Biology</i> , 2021 , 2198, 349-367	1.4	3
11	Controllable genome editing with split-engineered base editors. <i>Nature Chemical Biology</i> , 2021 , 17, 1262-1270	11.7	2
10	DNA Methyltransferases Demonstrate Reduced Activity against Arabinosylcytosine: Implications for Epigenetic Instability in Acute Myeloid Leukemia. <i>Biochemistry</i> , 2017 , 56, 2166-2169	3.2	1
9	Small Molecule Inhibitors of Activation-Induced Deaminase Decrease Class Switch Recombination in B Cells. <i>ACS Pharmacology and Translational Science</i> , 2021 , 4, 1214-1226	5.9	1
8	Harnessing Alternative Substrates to Probe TET Family Enzymes. <i>Methods in Molecular Biology</i> , 2021 , 2272, 265-280	1.4	1
7	Enzymatic approaches for profiling cytosine methylation and hydroxymethylation. <i>Molecular Metabolism</i> , 2021 , 57, 101314	8.8	1
6	Nucleobase Modifiers Identify TET Enzymes as Bifunctional DNA Dioxygenases Capable of Direct N-Demethylation. <i>Angewandte Chemie</i> , 2020 , 132, 11408-11411	3.6	0

5	Exploration of inhibitors of the bacterial LexA repressor-protease.. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022 , 65, 128702	2.9	o
4	Mechanisms for targeted, purposeful mutation revealed in an APOBEC-DNA complex. <i>Nature Structural and Molecular Biology</i> , 2017 , 24, 97-98	17.6	
3	When to think of zebras. <i>American Journal of Medicine</i> , 2009 , 122, 424-6	2.4	
2	Kinetic dissection of macromolecular complex formation with minimally perturbing fluorescent probes.. <i>Methods in Enzymology</i> , 2022 , 664, 151-171	1.7	
1	Modular affinity-labeling of the cytosine demethylation base elements in DNA. <i>Scientific Reports</i> , 2020 , 10, 20253	4.9	