Rahul M Kohli

List of Publications by Year in Descending Order

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	Kinetic dissection of macromolecular complex formation with minimally perturbing fluorescent probes.. *Methods in Enzymology*, **2022**, 664, 151-171	1.7	
75	Exploration of inhibitors of the bacterial LexA repressor-protease.. *Bioorganic and Medicinal Chemistry Letters*, **2022**, 65, 128702	2.9	0
74	Mutant-IDH inhibits Interferon-TET2 signaling to promote immunoevasion and tumor maintenance in cholangiocarcinoma. *Cancer Discovery*, **2021**,	24.4	5
73	Controllable genome editing with split-engineered base editors. *Nature Chemical Biology*, **2021**, 17, 1262-1270	11.7	2
72	SARS-CoV-2 spike protein binding selectively accelerates substrate-specific catalytic activity of ACE2. *Journal of Biochemistry*, **2021**, 170, 299-306	3.1	3
71	TET-TDG Active DNA Demethylation at CpG and Non-CpG Sites. *Journal of Molecular Biology*, **2021**, 433, 166877	6.5	6
70	Small Molecule Inhibitors of Activation-Induced Deaminase Decrease Class Switch Recombination in B Cells. *ACS Pharmacology and Translational Science*, **2021**, 4, 1214-1226	5.9	1
69	Discovery of an Unnatural DNA Modification Derived from a Natural Secondary Metabolite. *Cell Chemical Biology*, **2021**, 28, 97-104.e4	8.2	3
68	TET-mediated 5-methylcytosine oxidation in tRNA promotes translation. *Journal of Biological Chemistry*, **2021**, 296, 100087	5.4	12
67	Functionally distinct roles for TET-oxidized 5-methylcytosine bases in somatic reprogramming to pluripotency. *Molecular Cell*, **2021**, 81, 859-869.e8	17.6	9
66	Harnessing Alternative Substrates to Probe TET Family Enzymes. *Methods in Molecular Biology*, **2021**, 2272, 265-280	1.4	1
65	BET bromodomain protein inhibition reverses chimeric antigen receptor extinction and reinvigorates exhausted T cells in chronic lymphocytic leukemia. *Journal of Clinical Investigation*, **2021**, 131,	15.9	6
64	Enzymatic approaches for profiling cytosine methylation and hydroxymethylation. *Molecular Metabolism*, **2021**, 57, 101314	8.8	1
63	High-Resolution Analysis of 5-Hydroxymethylcytosine by TET-Assisted Bisulfite Sequencing. *Methods in Molecular Biology*, **2021**, 2198, 321-331	1.4	3
62	Bisulfite-Free Sequencing of 5-Hydroxymethylcytosine with APOBEC-Coupled Epigenetic Sequencing (ACE-Seq). *Methods in Molecular Biology*, **2021**, 2198, 349-367	1.4	3
61	Targeting evolution to inhibit antibiotic resistance. *FEBS Journal*, **2020**, 287, 4341-4353	5.7	4
60	The Kinetic and Molecular Basis for the Interaction of LexA and Activated RecA Revealed by a Fluorescent Amino Acid Probe. *ACS Chemical Biology*, **2020**, 15, 1127-1133	4.9	10

59	Nucleobase Modifiers Identify TET Enzymes as Bifunctional DNA Dioxygenases Capable of Direct N-Demethylation. *Angewandte Chemie - International Edition*, **2020**, 59, 11312-11315	16.4	8
58	High-performance CRISPR-Cas12a genome editing for combinatorial genetic screening. *Nature Communications*, **2020**, 11, 3455	17.4	26
57	Modular affinity-labeling of the cytosine demethylation base elements in DNA. *Scientific Reports*, **2020**, 10, 20253	4.9	
56	Nucleobase Modifiers Identify TET Enzymes as Bifunctional DNA Dioxygenases Capable of Direct N-Demethylation. *Angewandte Chemie*, **2020**, 132, 11408-11411	3.6	0
55	A vitamin-C-derived DNA modification catalysed by an algal TET homologue. *Nature*, **2019**, 569, 581-585	50.4	41
54	Selectivity and Promiscuity in TET-Mediated Oxidation of 5-Methylcytosine in DNA and RNA. *Biochemistry*, **2019**, 58, 411-421	3.2	22
53	The SOS Response Mediates Sustained Colonization of the Mammalian Gut. *Infection and Immunity*, **2019**, 87,	3.7	10
52	Improving the Fluorescent Probe Acridonylalanine Through a Combination of Theory and Experiment. *Journal of Physical Organic Chemistry*, **2018**, 31, e3813	2.1	13
51	Harnessing natural DNA modifying activities for editing of the genome and epigenome. *Current Opinion in Chemical Biology*, **2018**, 45, 10-17	9.7	9
50	Inhibitors of LexA Autoproteolysis and the Bacterial SOS Response Discovered by an Academic-Industry Partnership. *ACS Infectious Diseases*, **2018**, 4, 349-359	5.5	28
49	Non-equilibrium repressor binding kinetics link DNA damage dose to transcriptional timing within the SOS gene network. *PLoS Genetics*, **2018**, 14, e1007405	6	21
48	OGT binds a conserved C-terminal domain of TET1 to regulate TET1 activity and function in development. *ELife*, **2018**, 7,	8.9	27
47	Advancement of the 5-Amino-1-(Carbamoylmethyl)-1H-1,2,3-Triazole-4-Carboxamide Scaffold to Disarm the Bacterial SOS Response. *Frontiers in Microbiology*, **2018**, 9, 2961	5.7	10
46	Exploiting Substrate Promiscuity To Develop Activity-Based Probes for Ten-Eleven Translocation Family Enzymes. *Journal of the American Chemical Society*, **2018**, 140, 17329-17332	16.4	12
45	Nondestructive, base-resolution sequencing of 5-hydroxymethylcytosine using a DNA deaminase. *Nature Biotechnology*, **2018**,	44.5	91
44	Systematic Evaluation of Soluble Protein Expression Using a Fluorescent Unnatural Amino Acid Reveals No Reliable Predictors of Tolerability. *ACS Chemical Biology*, **2018**, 13, 2855-2861	4.9	19
43	Disruption of TET2 promotes the therapeutic efficacy of CD19-targeted T cells. *Nature*, **2018**, 558, 307-312	50.4	362
42	Mechanisms for targeted, purposeful mutation revealed in an APOBEC-DNA complex. *Nature Structural and Molecular Biology*, **2017**, 24, 97-98	17.6	

41	Improving target amino acid selectivity in a permissive aminoacyl tRNA synthetase through counter-selection. *Organic and Biomolecular Chemistry*, **2017**, 15, 3603-3610	3.9	16
40	DNA Methyltransferases Demonstrate Reduced Activity against Arabinosylcytosine: Implications for Epigenetic Instability in Acute Myeloid Leukemia. *Biochemistry*, **2017**, 56, 2166-2169	3.2	1
39	APOBEC3A efficiently deaminates methylated, but not TET-oxidized, cytosine bases in DNA. *Nucleic Acids Research*, **2017**, 45, 7655-7665	20.1	35
38	Mutations along a TET2 active site scaffold stall oxidation at 5-hydroxymethylcytosine. *Nature Chemical Biology*, **2017**, 13, 181-187	11.7	45
37	Solid-State Nanopore Analysis of Diverse DNA Base Modifications Using a Modular Enzymatic Labeling Process. *Nano Letters*, **2017**, 17, 7110-7116	11.5	15
36	A Small-Molecule Inducible Synthetic Circuit for Control of the SOS Gene Network without DNA Damage. *ACS Synthetic Biology*, **2017**, 6, 2067-2076	5.7	4
35	Systematically Altering Bacterial SOS Activity under Stress Reveals Therapeutic Strategies for Potentiating Antibiotics. *MSphere*, **2016**, 1,	5	50
34	The expanding scope and impact of epigenetic cytosine modifications. *Current Opinion in Chemical Biology*, **2016**, 33, 67-73	9.7	19
33	Tet2 Catalyzes Stepwise 5-Methylcytosine Oxidation by an Iterative and de novo Mechanism. *Journal of the American Chemical Society*, **2016**, 138, 730-3	16.4	51
32	Targets for Combating the Evolution of Acquired Antibiotic Resistance. *Biochemistry*, **2015**, 54, 3573-82	3.2	84
31	High-throughput mutagenesis reveals functional determinants for DNA targeting by activation-induced deaminase. *Nucleic Acids Research*, **2014**, 42, 9964-75	20.1	11
30	Specificity determinants for autoproteolysis of LexA, a key regulator of bacterial SOS mutagenesis. *Biochemistry*, **2014**, 53, 3158-68	3.2	37
29	Different modes of retrovirus restriction by human APOBEC3A and APOBEC3G in vivo. *PLoS Pathogens*, **2014**, 10, e1004145	7.6	43
28	TET enzymes, TDG and the dynamics of DNA demethylation. *Nature*, **2013**, 502, 472-9	50.4	1026
27	APOBEC3 inhibition of mouse mammary tumor virus infection: the role of cytidine deamination versus inhibition of reverse transcription. *Journal of Virology*, **2013**, 87, 4808-17	6.6	45
26	Nucleic acid determinants for selective deamination of DNA over RNA by activation-induced deaminase. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 14225-30	11.5	25
25	AID/APOBEC deaminases disfavor modified cytosines implicated in DNA demethylation. *Nature Chemical Biology*, **2012**, 8, 751-8	11.7	238
24	The curious chemical biology of cytosine: deamination, methylation, and oxidation as modulators of genomic potential. *ACS Chemical Biology*, **2012**, 7, 20-30	4.9	122

23	Molecular biology. Demystifying DNA demethylation. *Science*, **2011**, 333, 1229-30	33.3	60
22	Grand challenge commentary: The chemistry of a dynamic genome. *Nature Chemical Biology*, **2010**, 6, 866-8	11.7	3
21	Local sequence targeting in the AID/APOBEC family differentially impacts retroviral restriction and antibody diversification. *Journal of Biological Chemistry*, **2010**, 285, 40956-64	5.4	58
20	Sensitivity of V75I HIV-1 reverse transcriptase mutant selected in vitro by acyclovir to anti-HIV drugs. *Aids*, **2010**, 24, 319-23	3.5	4
19	A portable hot spot recognition loop transfers sequence preferences from APOBEC family members to activation-induced cytidine deaminase. *Journal of Biological Chemistry*, **2009**, 284, 22898-904	5.4	106
18	When to think of zebras. *American Journal of Medicine*, **2009**, 122, 424-6	2.4	
17	The antiherpetic drug acyclovir inhibits HIV replication and selects the V75I reverse transcriptase multidrug resistance mutation. *Journal of Biological Chemistry*, **2008**, 283, 31289-93	5.4	71
16	Type II thioesterase restores activity of a NRPS module stalled with an aminoacyl-S-enzyme that cannot be elongated. *ChemBioChem*, **2004**, 5, 1290-3	3.8	87
15	Enhanced macrocyclizing activity of the thioesterase from tyrocidine synthetase in presence of nonionic detergent. *Chemistry and Biology*, **2004**, 11, 1573-82		21
14	Enzymology of acyl chain macrocyclization in natural product biosynthesis. *Chemical Communications*, **2003**, 297-307	5.8	113
13	Chemoenzymatic route to macrocyclic hybrid peptide/polyketide-like molecules. *Journal of the American Chemical Society*, **2003**, 125, 7160-1	16.4	57
12	Structural basis for the cyclization of the lipopeptide antibiotic surfactin by the thioesterase domain SrfTE. *Structure*, **2002**, 10, 301-10	5.2	184
11	Biomimetic synthesis and optimization of cyclic peptide antibiotics. *Nature*, **2002**, 418, 658-61	50.4	241
10	The thioesterase domain from a nonribosomal peptide synthetase as a cyclization catalyst for integrin binding peptides. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 1247-52	11.5	50
9	Timing of epimerization and condensation reactions in nonribosomal peptide assembly lines: kinetic analysis of phenylalanine activating elongation modules of tyrocidine synthetase B. *Biochemistry*, **2002**, 41, 9184-96	3.2	63
8	Characterization of the surfactin synthetase C-terminal thioesterase domain as a cyclic depsipeptide synthase. *Biochemistry*, **2002**, 41, 13350-9	3.2	88
7	Chain termination steps in nonribosomal peptide synthetase assembly lines: directed acyl-S-enzyme breakdown in antibiotic and siderophore biosynthesis. *ChemBioChem*, **2001**, 2, 99-107	3.8	68
6	Cyclization of backbone-substituted peptides catalyzed by the thioesterase domain from the tyrocidine nonribosomal peptide synthetase. *Biochemistry*, **2001**, 40, 7092-8	3.2	94

5	Generality of peptide cyclization catalyzed by isolated thioesterase domains of nonribosomal peptide synthetases. *Biochemistry*, **2001**, 40, 7099-108	3.2	132
4	Peptide cyclization catalysed by the thioesterase domain of tyrocidine synthetase. *Nature*, **2000**, 407, 215-8	50.4	266
3	The role of threonine 37 in flavin reactivity of the old yellow enzyme. *Proceedings of the National Academy of Sciences of the United States of America*, **1999**, 96, 3556-61	11.5	64
2	The oxidative half-reaction of Old Yellow Enzyme. The role of tyrosine 196. *Journal of Biological Chemistry*, **1998**, 273, 32763-70	5.4	170
1	Site-directed mutagenesis using PCR-mediated introduction of silent mutations. *BioTechniques*, **1998**, 25, 184-8	2.5	7