

Nathan R Rose

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

4,768
citations

218677

26
h-index

414414

32
g-index

36
all docs

36
docs citations

36
times ranked

6953
citing authors

#	ARTICLE	IF	CITATIONS
1	The oncometabolite 2-hydroxyglutarate inhibits histone lysine demethylases. <i>EMBO Reports</i> , 2011, 12, 463-469.	4.5	851
2	Understanding the relationship between DNA methylation and histone lysine methylation. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2014, 1839, 1362-1372.	1.9	430
3	KDM2B links the Polycomb Repressive Complex 1 (PRC1) to recognition of CpG islands. <i>ELife</i> , 2012, 1, e0205.	6.0	414
4	Inhibition of 2-oxoglutarate dependent oxygenases. <i>Chemical Society Reviews</i> , 2011, 40, 4364.	38.1	336
5	Targeting Polycomb systems to regulate gene expression: modifications to a complex story. <i>Nature Reviews Molecular Cell Biology</i> , 2015, 16, 643-649.	37.0	314
6	Crystal structures of histone demethylase JMJD2A reveal basis for substrate specificity. <i>Nature</i> , 2007, 448, 87-91.	27.8	297
7	Inhibitor Scaffolds for 2-Oxoglutarate-Dependent Histone Lysine Demethylases. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 7053-7056.	6.4	221
8	Quantitative High-Throughput Screening Identifies 8-Hydroxyquinolines as Cell-Active Histone Demethylase Inhibitors. <i>PLoS ONE</i> , 2010, 5, e15535.	2.5	194
9	Conversion of Cysteine into Dehydroalanine Enables Access to Synthetic Histones Bearing Diverse Post-translational Modifications. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1835-1839.	13.8	172
10	PHF8, a gene associated with cleft lip/palate and mental retardation, encodes for an N ^ε -dimethyl lysine demethylase. <i>Human Molecular Genetics</i> , 2010, 19, 217-222.	2.9	153
11	Selective Inhibitors of the JMJD2 Histone Demethylases: Combined Nondenaturing Mass Spectrometric Screening and Crystallographic Approaches. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 1810-1818.	6.4	146
12	Structural and Evolutionary Basis for the Dual Substrate Selectivity of Human KDM4 Histone Demethylase Family. <i>Journal of Biological Chemistry</i> , 2011, 286, 41616-41625.	3.4	143
13	5-Carboxy-8-hydroxyquinoline is a broad spectrum 2-oxoglutarate oxygenase inhibitor which causes iron translocation. <i>Chemical Science</i> , 2013, 4, 3110.	7.4	142
14	Plant Growth Regulator Daminozide Is a Selective Inhibitor of Human KDM2/7 Histone Demethylases. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 6639-6643.	6.4	125
15	RYBP stimulates PRC1 to shape chromatin-based communication between Polycomb repressive complexes. <i>ELife</i> , 2016, 5, .	6.0	111
16	Selective Small Molecule Probes for the Hypoxia Inducible Factor (HIF) Prolyl Hydroxylases. <i>ACS Chemical Biology</i> , 2013, 8, 1488-1496.	3.4	105
17	A miniaturized screen for inhibitors of Jumonji histone demethylases. <i>Molecular BioSystems</i> , 2010, 6, 357-364.	2.9	84
18	Inhibition of the histone lysine demethylase JMJD2A by ejection of structural Zn(ii). <i>Chemical Communications</i> , 2009, , 6376.	4.1	77

#	ARTICLE	IF	CITATIONS
19	Inhibition of Histone Demethylases by 4-Carboxy-2,2'-Bipyridyl Compounds. <i>ChemMedChem</i> , 2011, 6, 759-764.		76
20	Development of homogeneous luminescence assays for histone demethylase catalysis and binding. <i>Analytical Biochemistry</i> , 2010, 404, 86-93.	2.4	66
21	Linking of 2-Oxoglutarate and Substrate Binding Sites Enables Potent and Highly Selective Inhibition of JmjC Histone Demethylases. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 1631-1634.	13.8	64
22	Inhibition of the histone demethylase JMJD2E by 3-substituted pyridine 2,4-dicarboxylates. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 127-135.	2.8	52
23	Monitoring the Activity of 2-Oxoglutarate Dependent Histone Demethylases by NMR Spectroscopy: Direct Observation of Formaldehyde. <i>ChemBioChem</i> , 2010, 11, 506-510.	2.6	51
24	Is JmjC Oxygenase Catalysis Limited to Demethylation?. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 7709-7713.	13.8	32
25	2-Oxoglutarate oxygenases are inhibited by a range of transition metals. <i>Metallomics</i> , 2010, 2, 397.	2.4	26
26	Studies on the Glutathione-Dependent Formaldehyde-Activating Enzyme from <i>Paracoccus denitrificans</i> . <i>PLoS ONE</i> , 2015, 10, e0145085.	2.5	10
27	Self-limiting fall armyworm: a new approach in development for sustainable crop protection and resistance management. <i>BMC Biotechnology</i> , 2022, 22, 5.	3.3	9
28	Evaluation of Baylis-Hillman Routes to 3-(Aminomethyl)coumarin Derivatives. <i>Synthetic Communications</i> , 2014, 44, 251-258.	2.1	4
29	Biochemical Identification of Nonmethylated DNA by BioCAP-Seq. <i>Methods in Molecular Biology</i> , 2018, 1766, 15-29.	0.9	2