Philip A Cole

List of Publications by Year
in descending order

112	11,923	47006 47	29157 104
papers	citations	h-index	g-index

140	140	140	15224
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Histone Demethylation Mediated by the Nuclear Amine Oxidase Homolog LSD1. Cell, 2004, 119, 941-953.	28.9	3,626
2	Virtual Ligand Screening of the p300/CBP Histone Acetyltransferase: Identification of a Selective Small Molecule Inhibitor. Chemistry and Biology, 2010, 17, 471-482.	6.0	538
3	Discovery of a selective catalytic p300/CBP inhibitor that targets lineage-specific tumours. Nature, 2017, 550, 128-132.	27.8	498
4	Protein Lysine Acetylation by p300/CBP. Chemical Reviews, 2015, 115, 2419-2452.	47.7	398
5	The structural basis of protein acetylation by the p300/CBP transcriptional coactivator. Nature, 2008, 451, 846-850.	27.8	381
6	HATs off. Molecular Cell, 2000, 5, 589-595.	9.7	376
7	Regulation of the p300 HAT domain via a novel activation loop. Nature Structural and Molecular Biology, 2004, 11, 308-315.	8.2	374
8	Time-Resolved Analysis Reveals Rapid Dynamics and Broad Scope of the CBP/p300 Acetylome. Cell, 2018, 174, 231-244.e12.	28.9	313
9	Chemical probes for histone-modifying enzymes. Nature Chemical Biology, 2008, 4, 590-597.	8.0	231
10	Inhibition of the Acetyltransferases p300 and CBP Reveals a Targetable Function for p300 in the Survival and Invasion Pathways of Prostate Cancer Cell Lines. Molecular Cancer Therapeutics, 2011, 10, 1644-1655.	4.1	188
11	Mechanism-based design of a protein kinase inhibitor. Nature Structural Biology, 2001, 8, 37-41.	9.7	185
12	Targeting the CoREST complex with dual histone deacetylase and demethylase inhibitors. Nature Communications, 2018, 9, 53.	12.8	175
13	Inhibition of p300 impairs Foxp3+ T regulatory cell function and promotes antitumor immunity. Nature Medicine, 2013, 19, 1173-1177.	30.7	168
14	How IGF-1 activates its receptor. ELife, 2014, 3, .	6.0	154
15	Structure and chemistry of the p300/CBP and Rtt109 histone acetyltransferases: implications for histone acetyltransferase evolution and function. Current Opinion in Structural Biology, 2008, 18, 741-747.	5.7	152
16	Comparative Analysis of Small Molecules and Histone Substrate Analogues as LSD1 Lysine Demethylase Inhibitors. Journal of the American Chemical Society, 2010, 132, 3164-3176.	13.7	149
17	Regulation of CK2 by phosphorylation and O-GlcNAcylation revealed by semisynthesis. Nature Chemical Biology, 2012, 8, 262-269.	8.0	148
18	Genetically encoded biosensors for visualizing live-cell biochemical activity at super-resolution. Nature Methods, 2017, 14, 427-434.	19.0	138

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19	LSD1 and the chemistry of histone demethylation. Current Opinion in Chemical Biology, 2007, 11, 561-568.	6.1	128
20	Re-programing Chromatin with a Bifunctional LSD1/HDAC Inhibitor Induces Therapeutic Differentiation in DIPG. Cancer Cell, 2019, 36, 528-544.e10.	16.8	128
21	Down-regulation of p300/CBP histone acetyltransferase activates a senescence checkpoint in human melanocytes. Cancer Research, 2002, 62, 6231-9.	0.9	120
22	Chemical Rescue of a Mutant Enzyme in Living Cells. Science, 2006, 311, 1293-1297.	12.6	111
23	Site-Specific Introduction of an Acetyl-Lysine Mimic into Peptides and Proteins by Cysteine Alkylation. Journal of the American Chemical Society, 2010, 132, 9986-9987.	13.7	107
24	Catalytic Mechanisms and Regulation of Protein Kinases. Methods in Enzymology, 2014, 548, 1-21.	1.0	107
25	BCL6 repression of EP300 in human diffuse large B cell lymphoma cells provides a basis for rational combinatorial therapy. Journal of Clinical Investigation, 2010, 120, 4569-4582.	8.2	101
26	p300/CBP-associated Factor Histone Acetyltransferase Processing of a Peptide Substrate. Journal of Biological Chemistry, 2000, 275, 21953-21959.	3.4	100
27	Akt Kinase Activation Mechanisms Revealed Using Protein Semisynthesis. Cell, 2018, 174, 897-907.e14.	28.9	96
28	Synthetic approaches to protein phosphorylation. Current Opinion in Chemical Biology, 2015, 28, 115-122.	6.1	93
29	Phosphorylation-mediated PTEN conformational closure and deactivation revealed with protein semisynthesis. ELife, 2013, 2, e00691.	6.0	89
30	A Selective Phenelzine Analogue Inhibitor of Histone Demethylase LSD1. ACS Chemical Biology, 2014, 9, 1284-1293.	3.4	88
31	Mechanistic Analysis of a Suicide Inactivator of Histone Demethylase LSD1â€. Biochemistry, 2007, 46, 6892-6902.	2.5	87
32	Selective Inhibition of p300 HAT Blocks Cell Cycle Progression, Induces Cellular Senescence, and Inhibits the DNA Damage Response in Melanoma Cells. Journal of Investigative Dermatology, 2013, 133, 2444-2452.	0.7	87
33	The regulatory enzymes and protein substrates for the lysine Î²-hydroxybutyrylation pathway. Science Advances, 2021, 7, .	10.3	87
34	Protein tyrosine kinases Src and Csk: a tail's tale. Current Opinion in Chemical Biology, 2003, 7, 580-585.	6.1	84
35	A Tunable Brake for HECT Ubiquitin Ligases. Molecular Cell, 2017, 66, 345-357.e6.	9.7	83
36	Protein semisynthesis and expressed protein ligation: chasing a protein's tail. Current Opinion in Chemical Biology, 2005, 9, 561-569.	6.1	79

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37	The Role of the Phospho-CDK2/Cyclin A Recruitment Site in Substrate Recognition. Journal of Biological Chemistry, 2006, 281, 23167-23179.	3.4	79
38	The Chemical Biology of Reversible Lysine Post-translational Modifications. Cell Chemical Biology, 2020, 27, 953-969.	5.2	76
39	Two Histone/Protein Acetyltransferases, CBP and p300, Are Indispensable for Foxp3⁺ T-Regulatory Cell Development and Function. Molecular and Cellular Biology, 2014, 34, 3993-4007.	2.3	75
40	Mechanism of Crosstalk between the LSD1 Demethylase and HDAC1 Deacetylase in the CoREST Complex. Cell Reports, 2020, 30, 2699-2711.e8.	6.4	74
41	Histone deacetylase inhibitors decrease NHEJ both by acetylation of repair factors and trapping of PARP1 at DNA double-strand breaks in chromatin. Leukemia Research, 2016, 45, 14-23.	0.8	65
42	Structural basis of nSH2 regulation and lipid binding in PI3KÎ±. Oncotarget, 2014, 5, 5198-5208.	1.8	62
43	CBP Regulates Recruitment and Release of Promoter-Proximal RNA Polymerase II. Molecular Cell, 2017, 68, 491-503.e5.	9.7	59
44	Endotoxemia-mediated activation of acetyltransferase P300 impairs insulin signaling in obesity. Nature Communications, 2017, 8, 131.	12.8	59
45	p300/CBP-associated Factor Drives DEK into Interchromatin Granule Clusters. Journal of Biological Chemistry, 2005, 280, 31760-31767.	3.4	53
46	Discovery of Spiro Oxazolidinediones as Selective, Orally Bioavailable Inhibitors of p300/CBP Histone Acetyltransferases. ACS Medicinal Chemistry Letters, 2018, 9, 28-33.	2.8	53
47	YcgC represents a new protein deacetylase family in prokaryotes. ELife, 2015, 4, .	6.0	52
48	Combined Targeting of the BRD4â€“NUTâ€“p300 Axis in NUT Midline Carcinoma by Dual Selective Bromodomain Inhibitor, NEO2734. Molecular Cancer Therapeutics, 2020, 19, 1406-1414.	4.1	51
49	Azalysine Analogues as Probes for Protein Lysine Deacetylation and Demethylation. Journal of the American Chemical Society, 2012, 134, 5138-5148.	13.7	49
50	Enzyme-catalyzed expressed protein ligation. Nature Methods, 2016, 13, 925-927.	19.0	49
51	In Vitro Enzymatic Characterization of Near Full Length EGFR in Activated and Inhibited States. Biochemistry, 2009, 48, 6624-6632.	2.5	47
52	Liveâ€€Cell Studies of p300/CBP Histone Acetyltransferase Activity and Inhibition. ChemBioChem, 2012, 13, 2113-2121.	2.6	47
53	MITF Expression Predicts Therapeutic Vulnerability to p300 Inhibition in Human Melanoma. Cancer Research, 2019, 79, 2649-2661.	0.9	47
54	Lysine-14 acetylation of histone H3 in chromatin confers resistance to the deacetylase and demethylase activities of an epigenetic silencing complex. ELife, 2018, 7, .	6.0	43

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55	Molecular Features of Phosphatase and Tensin Homolog (PTEN) Regulation by C-terminal Phosphorylation. Journal of Biological Chemistry, 2016, 291, 14160-14169.	3.4	41
56	Modulation of p300/CBP Acetylation of Nucleosomes by Bromodomain Ligand I-CBP112. Biochemistry, 2016, 55, 3727-3734.	2.5	41
57	Inhibiting the coregulator CoREST impairs Foxp3+ Treg function and promotes antitumor immunity. Journal of Clinical Investigation, 2020, 130, 1830-1842.	8.2	41
58	The structural determinants of PH domain-mediated regulation of Akt revealed by segmental labeling. ELife, 2020, 9, .	6.0	41
59	Diverse nucleosome Site-Selectivity among histone deacetylase complexes. ELife, 2020, 9, .	6.0	37
60	Site-Specific Protein Labeling with N-Hydroxysuccinimide-Esters and the Analysis of Ubiquitin Ligase Mechanisms. Journal of the American Chemical Society, 2018, 140, 9374-9378.	13.7	36
61	Enzymatic Analysis of PTEN Ubiquitylation by WWP2 and NEDD4-1 E3 Ligases. Biochemistry, 2016, 55, 3658-3666.	2.5	34
62	AKTivation mechanisms. Current Opinion in Structural Biology, 2019, 59, 47-53.	5.7	34
63	Hydrazide Mimics for Protein Lysine Acylation To Assess Nucleosome Dynamics and Deubiquitinase Action. Journal of the American Chemical Society, 2018, 140, 9478-9485.	13.7	33
64	Investigation of N-Terminal Phospho-Regulation ofÂUracil DNA Glycosylase Using Protein Semisynthesis. Biophysical Journal, 2017, 113, 393-401.	0.5	30
65	Combination Targeting of the Bromodomain and Acetyltransferase Active Site of p300/CBP. Biochemistry, 2019, 58, 2133-2143.	2.5	30
66	CREB Promotes Beta Cell Gene Expression by Targeting Its Coactivators to Tissue-Specific Enhancers. Molecular and Cellular Biology, 2019, 39, .	2.3	29
67	Lysine-Specific Demethylase 1 Mediates AKT Activity and Promotes Epithelial-to-Mesenchymal Transition in PIK3CA-Mutant Colorectal Cancer. Molecular Cancer Research, 2020, 18, 264-277.	3.4	29
68	Chemical Approaches to Reversible Protein Phosphorylation. Accounts of Chemical Research, 2003, 36, 444-452.	15.6	26
69	Regulation of S-Adenosylhomocysteine Hydrolase by Lysine Acetylation. Journal of Biological Chemistry, 2014, 289, 31361-31372.	3.4	24
70	CBP binding outside of promoters and enhancers in Drosophila melanogaster. Epigenetics and Chromatin, 2015, 8, 48.	3.9	24
71	Histone H2B Deacylation Selectivity: Exploring Chromatinâ€™s Dark Matter with an Engineered Sortase. Journal of the American Chemical Society, 2022, 144, 3360-3364.	13.7	24
72	Comparative analysis of the catalytic regulation of NEDD4-1 and WWP2 ubiquitin ligases. Journal of Biological Chemistry, 2019, 294, 17421-17436.	3.4	23

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73	Measurement of nanoscale DNA translocation by uracil DNA glycosylase in human cells. Nucleic Acids Research, 2017, 45, 12413-12424.	14.5	21
74	The structural basis of PTEN regulation by multi-site phosphorylation. Nature Structural and Molecular Biology, 2021, 28, 858-868.	8.2	20
75	Analysis of p300/CBP Histone Acetyltransferase Regulation Using Circular Permutation and Semisynthesis. Journal of the American Chemical Society, 2010, 132, 1222-1223.	13.7	19
76	Regulation of Myf5 Early Enhancer by Histone Acetyltransferase P300 during Stem Cell Differentiation. Molecular Biology (Los Angeles, Calif), 2012, 01, .	0.0	19
77	Disordered N-Terminal Domain of Human Uracil DNA Glycosylase (hUNG2) Enhances DNA Translocation. ACS Chemical Biology, 2017, 12, 2260-2263.	3.4	18
78	Mechanistic analysis of ghrelin-O-acyltransferase using substrate analogs. Bioorganic Chemistry, 2015, 62, 64-73.	4.1	17
79	Interaction with the DNA Repair Protein Thymine DNA Glycosylase Regulates Histone Acetylation by p300. Biochemistry, 2016, 55, 6766-6775.	2.5	17
80	Analysis of Siteâ€Specific Phosphorylation of PTEN by Using Enzymeâ€Catalyzed Expressed Protein Ligation. ChemBioChem, 2020, 21, 64-68.	2.6	17
81	An Fc Domain Proteinâ€“Small Molecule Conjugate as an Enhanced Immunomodulator. Journal of the American Chemical Society, 2014, 136, 3370-3373.	13.7	14
82	Allosteric regulation of epigenetic modifying enzymes. Current Opinion in Chemical Biology, 2017, 39, 109-115.	6.1	14
83	Getting the Most Out of Your Crystals: Data Collection at the New High-Flux, Microfocus MX Beamlines at NSLS-II. Molecules, 2019, 24, 496.	3.8	13
84	The protein kinase Akt acts as a coat adaptor in endocytic recycling. Nature Cell Biology, 2020, 22, 927-933.	10.3	13
85	Selective protein N-terminal labeling with N-hydroxysuccinimide esters. Methods in Enzymology, 2020, 639, 333-353.	1.0	12
86	Nâ€Terminal Protein Labeling with Nâ€Hydroxysuccinimide Esters and Microscale Thermophoresis Measurements of Proteinâ€Protein Interactions Using Labeled Protein. Current Protocols, 2021, 1, e14.	2.9	12
87	Chemical Screen Identifies Diverse and Novel Histone Deacetylase Inhibitors as Repressors of NUT Function: Implications for NUT Carcinoma Pathogenesis and Treatment. Molecular Cancer Research, 2021, 19, 1818-1830.	3.4	12
88	Investigation into the use of histone deacetylase inhibitor MS-275 as a topical agent for the prevention and treatment of cutaneous squamous cell carcinoma in an SKH-1 hairless mouse model. PLoS ONE, 2019, 14, e0213095.	2.5	10
89	HDAC2 targeting stabilizes the CoREST complex in renal tubular cells and protects against renal ischemia/reperfusion injury. Scientific Reports, 2021, 11, 9018.	3.3	10
90	Complementary Roles of GCN5 and PCAF in Foxp3+ T-Regulatory Cells. Cancers, 2019, 11, 554.	3.7	9

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91	Discovery of spirohydantoins as selective, orally bioavailable inhibitors of p300/CBP histone acetyltransferases. Bioorganic and Medicinal Chemistry Letters, 2021, 39, 127854.	2.2	9
92	Methods and Applications of Expressed Protein Ligation. Methods in Molecular Biology, 2020, 2133, 1-13.	0.9	8
93	Siteâ€Specific 5â€Formyl Cytosine Mediated DNAâ€Histone Crossâ€Links: Synthesis and Polymerase Bypass by Human DNA Polymerase Î·. Angewandte Chemie - International Edition, 2021, 60, 26489-26494.	13.8	7
94	Multifaceted Regulation of Akt by Diverse C-Terminal Post-translational Modifications. ACS Chemical Biology, 2022, 17, 68-76.	3.4	7
95	Ubiquitin Ligase Activities of WWP1 Germline Variants K740N and N745S. Biochemistry, 2021, 60, 357-364.	2.5	6
96	Enzymatic analysis of WWP2 E3 ubiquitin ligase using protein microarrays identifies autophagy-related substrates. Journal of Biological Chemistry, 2022, 298, 101854.	3.4	6
97	Protein Chemical Approaches to Understanding PTEN Lipid Phosphatase Regulation. Methods in Enzymology, 2018, 607, 405-422.	1.0	5
98	Distinct biochemical properties of the class I histone deacetylaseÂcomplexes. Current Opinion in Chemical Biology, 2022, 70, 102179.	6.1	5
99	Analysis of Cellular Tyrosine Phosphorylation via Chemical Rescue of Conditionally Active Abl Kinase. Biochemistry, 2018, 57, 1390-1398.	2.5	4
100	Siteâ€Specific 5â€Formyl Cytosine Mediated DNAâ€Histone Crossâ€Links: Synthesis and Polymerase Bypass by Human DNA Polymerase Î·. Angewandte Chemie, 2021, 133, 26693-26698.	2.0	3
101	Open questions: two challenges in chemical biology - chemical engineering and the science of diet. BMC Biology, 2013, 11, 87.	3.8	1
102	An Fcâ€“Small Molecule Conjugate for Targeted Inhibition of the Adenosineâ€…2A Receptor. ChemBioChem, 2016, 17, 1951-1960.	2.6	1
103	Connectivity Mapping of BCL6 Targeted Therapy Guides Rational Design of Potent and Specific Non-Chemotherapy Combinatorial Regimens in DLBCL.. Blood, 2007, 110, 523-523.	1.4	1
104	Switching immune signals on and off. ELife, 2015, 4, .	6.0	1
105	GENE-22. RE-PROGRAMING CHROMATIN WITH A BIFUNCTIONAL LSD1/HDAC INHIBITOR INDUCES THERAPEUTIC DIFFERENTIATION IN DIPG. Neuro-Oncology, 2018, 20, vi107-vi108.	1.2	0
106	Editorial overview: Biological catalysis at the cross-roads of signaling and metabolism. Current Opinion in Structural Biology, 2019, 59, iii-v.	5.7	0
107	Histone Acetyltransferase Activity of p300 Is Required for Transcriptional Repression by the Promyelocytic Leukemia Zinc Finger Protein.. Blood, 2004, 104, 359-359.	1.4	0
108	Structure and chemistry of the human p300/CBP and yeast Rtt109 histone acetyltransferase. FASEB Journal, 2009, 23, 89.2.	0.5	0

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109	Tackling Targets in Epigenetics. FASEB Journal, 2012, 26, 230.3.	0.5	0
110	The Epigenetic Regulators CBP and p300 Facilitate Leukemogenesis and Represent Therapeutic Targets In Acute Myeloid Leukemia (AML). Blood, 2013, 122, 3732-3732.	1.4	0
111	The Interplay of Phosphorylation and Ubiquitylation in the Regulation of PTEN. FASEB Journal, 2015, 29, 570.2.	0.5	0
112	Targeting Reversible Lysine Modifications. FASEB Journal, 2015, 29, 107.3.	0.5	0