

Philip A Cole

List of Publications by Year in descending order

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112
papers

11,923
citations

53939

47
h-index

33145

104
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140
all docs

140
docs citations

140
times ranked

16964
citing authors

#	ARTICLE	IF	CITATIONS
1	Histone H2B Deacylation Selectivity: Exploring Chromatin's Dark Matter with an Engineered Sortase. <i>Journal of the American Chemical Society</i> , 2022, 144, 3360-3364.	6.6	24
2	Enzymatic analysis of WWP2 E3 ubiquitin ligase using protein microarrays identifies autophagy-related substrates. <i>Journal of Biological Chemistry</i> , 2022, 298, 101854.	1.6	6
3	Multifaceted Regulation of Akt by Diverse C-Terminal Post-translational Modifications. <i>ACS Chemical Biology</i> , 2022, 17, 68-76.	1.6	7
4	Distinct biochemical properties of the class I histone deacetylase complexes. <i>Current Opinion in Chemical Biology</i> , 2022, 70, 102179.	2.8	5
5	N-Terminal Protein Labeling with <i>N</i> -Hydroxysuccinimide Esters and Microscale Thermophoresis Measurements of Protein-Protein Interactions Using Labeled Protein. <i>Current Protocols</i> , 2021, 1, e14.	1.3	12
6	The regulatory enzymes and protein substrates for the lysine ϵ^2 -hydroxybutyrylation pathway. <i>Science Advances</i> , 2021, 7, .	4.7	87
7	HDAC2 targeting stabilizes the CoREST complex in renal tubular cells and protects against renal ischemia/reperfusion injury. <i>Scientific Reports</i> , 2021, 11, 9018.	1.6	10
8	Discovery of spirohydantoin as selective, orally bioavailable inhibitors of p300/CBP histone acetyltransferases. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021, 39, 127854.	1.0	9
9	Chemical Screen Identifies Diverse and Novel Histone Deacetylase Inhibitors as Repressors of NUT Function: Implications for NUT Carcinoma Pathogenesis and Treatment. <i>Molecular Cancer Research</i> , 2021, 19, 1818-1830.	1.5	12
10	Ubiquitin Ligase Activities of WWP1 Germline Variants K740N and N745S. <i>Biochemistry</i> , 2021, 60, 357-364.	1.2	6
11	The structural basis of PTEN regulation by multi-site phosphorylation. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 858-868.	3.6	20
12	Site-Specific 5-Formyl Cytosine Mediated DNA-Histone Cross-Links: Synthesis and Polymerase Bypass by Human DNA Polymerase β . <i>Angewandte Chemie</i> , 2021, 133, 26693-26698.	1.6	3
13	Site-Specific 5-Formyl Cytosine Mediated DNA-Histone Cross-Links: Synthesis and Polymerase Bypass by Human DNA Polymerase β . <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26489-26494.	7.2	7
14	Analysis of Site-Specific Phosphorylation of PTEN by Using Enzyme-Catalyzed Expressed Protein Ligation. <i>ChemBioChem</i> , 2020, 21, 64-68.	1.3	17
15	Lysine-Specific Demethylase 1 Mediates AKT Activity and Promotes Epithelial-to-Mesenchymal Transition in <i>PIK3CA</i> -Mutant Colorectal Cancer. <i>Molecular Cancer Research</i> , 2020, 18, 264-277.	1.5	29
16	The Chemical Biology of Reversible Lysine Post-translational Modifications. <i>Cell Chemical Biology</i> , 2020, 27, 953-969.	2.5	76
17	Combined Targeting of the BRD4-NUT-p300 Axis in NUT Midline Carcinoma by Dual Selective Bromodomain Inhibitor, NEO2734. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 1406-1414.	1.9	51
18	The protein kinase Akt acts as a coat adaptor in endocytic recycling. <i>Nature Cell Biology</i> , 2020, 22, 927-933.	4.6	13

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19	Selective protein N-terminal labeling with N-hydroxysuccinimide esters. <i>Methods in Enzymology</i> , 2020, 639, 333-353.	0.4	12
20	Mechanism of Crosstalk between the LSD1 Demethylase and HDAC1 Deacetylase in the CoREST Complex. <i>Cell Reports</i> , 2020, 30, 2699-2711.e8.	2.9	74
21	Inhibiting the coregulator CoREST impairs Foxp3+ Treg function and promotes antitumor immunity. <i>Journal of Clinical Investigation</i> , 2020, 130, 1830-1842.	3.9	41
22	Diverse nucleosome Site-Selectivity among histone deacetylase complexes. <i>ELife</i> , 2020, 9, .	2.8	37
23	The structural determinants of PH domain-mediated regulation of Akt revealed by segmental labeling. <i>ELife</i> , 2020, 9, .	2.8	41
24	Methods and Applications of Expressed Protein Ligation. <i>Methods in Molecular Biology</i> , 2020, 2133, 1-13.	0.4	8
25	Re-programing Chromatin with a Bifunctional LSD1/HDAC Inhibitor Induces Therapeutic Differentiation in DIPG. <i>Cancer Cell</i> , 2019, 36, 528-544.e10.	7.7	128
26	Comparative analysis of the catalytic regulation of NEDD4-1 and WWP2 ubiquitin ligases. <i>Journal of Biological Chemistry</i> , 2019, 294, 17421-17436.	1.6	23
27	Editorial overview: Biological catalysis at the cross-roads of signaling and metabolism. <i>Current Opinion in Structural Biology</i> , 2019, 59, iii-v.	2.6	0
28	CREB Promotes Beta Cell Gene Expression by Targeting Its Coactivators to Tissue-Specific Enhancers. <i>Molecular and Cellular Biology</i> , 2019, 39, .	1.1	29
29	Complementary Roles of GCN5 and PCAF in Foxp3+ T-Regulatory Cells. <i>Cancers</i> , 2019, 11, 554.	1.7	9
30	Getting the Most Out of Your Crystals: Data Collection at the New High-Flux, Microfocus MX Beamlines at NSLS-II. <i>Molecules</i> , 2019, 24, 496.	1.7	13
31	AKTivation mechanisms. <i>Current Opinion in Structural Biology</i> , 2019, 59, 47-53.	2.6	34
32	MITF Expression Predicts Therapeutic Vulnerability to p300 Inhibition in Human Melanoma. <i>Cancer Research</i> , 2019, 79, 2649-2661.	0.4	47
33	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. <i>PLoS ONE</i> , 2019, 14, e0213095.	1.1	10
34	Combination Targeting of the Bromodomain and Acetyltransferase Active Site of p300/CBP. <i>Biochemistry</i> , 2019, 58, 2133-2143.	1.2	30
35	Targeting the CoREST complex with dual histone deacetylase and demethylase inhibitors. <i>Nature Communications</i> , 2018, 9, 53.	5.8	175
36	Analysis of Cellular Tyrosine Phosphorylation via Chemical Rescue of Conditionally Active Abl Kinase. <i>Biochemistry</i> , 2018, 57, 1390-1398.	1.2	4

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37	Discovery of Spiro Oxazolidinediones as Selective, Orally Bioavailable Inhibitors of p300/CBP Histone Acetyltransferases. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 28-33.	1.3	53
38	GENE-22. RE-PROGRAMING CHROMATIN WITH A BIFUNCTIONAL LSD1/HDAC INHIBITOR INDUCES THERAPEUTIC DIFFERENTIATION IN DIPG. <i>Neuro-Oncology</i> , 2018, 20, vi107-vi108.	0.6	0
39	Time-Resolved Analysis Reveals Rapid Dynamics and Broad Scope of the CBP/p300 Acetylome. <i>Cell</i> , 2018, 174, 231-244.e12.	13.5	313
40	Akt Kinase Activation Mechanisms Revealed Using Protein Semisynthesis. <i>Cell</i> , 2018, 174, 897-907.e14.	13.5	96
41	Site-Specific Protein Labeling with <i>N</i> -Hydroxysuccinimide-Esters and the Analysis of Ubiquitin Ligase Mechanisms. <i>Journal of the American Chemical Society</i> , 2018, 140, 9374-9378.	6.6	36
42	Lysine-14 acetylation of histone H3 in chromatin confers resistance to the deacetylase and demethylase activities of an epigenetic silencing complex. <i>ELife</i> , 2018, 7, .	2.8	43
43	Hydrazide Mimics for Protein Lysine Acylation To Assess Nucleosome Dynamics and Deubiquitinase Action. <i>Journal of the American Chemical Society</i> , 2018, 140, 9478-9485.	6.6	33
44	Protein Chemical Approaches to Understanding PTEN Lipid Phosphatase Regulation. <i>Methods in Enzymology</i> , 2018, 607, 405-422.	0.4	5
45	A Tunable Brake for HECT Ubiquitin Ligases. <i>Molecular Cell</i> , 2017, 66, 345-357.e6.	4.5	83
46	Genetically encoded biosensors for visualizing live-cell biochemical activity at super-resolution. <i>Nature Methods</i> , 2017, 14, 427-434.	9.0	138
47	Discovery of a selective catalytic p300/CBP inhibitor that targets lineage-specific tumours. <i>Nature</i> , 2017, 550, 128-132.	13.7	498
48	CBP Regulates Recruitment and Release of Promoter-Proximal RNA Polymerase II. <i>Molecular Cell</i> , 2017, 68, 491-503.e5.	4.5	59
49	Measurement of nanoscale DNA translocation by uracil DNA glycosylase in human cells. <i>Nucleic Acids Research</i> , 2017, 45, 12413-12424.	6.5	21
50	Investigation of N-Terminal Phospho-Regulation of Uracil DNA Glycosylase Using Protein Semisynthesis. <i>Biophysical Journal</i> , 2017, 113, 393-401.	0.2	30
51	Endotoxemia-mediated activation of acetyltransferase P300 impairs insulin signaling in obesity. <i>Nature Communications</i> , 2017, 8, 131.	5.8	59
52	Disordered N-Terminal Domain of Human Uracil DNA Glycosylase (hUNG2) Enhances DNA Translocation. <i>ACS Chemical Biology</i> , 2017, 12, 2260-2263.	1.6	18
53	Allosteric regulation of epigenetic modifying enzymes. <i>Current Opinion in Chemical Biology</i> , 2017, 39, 109-115.	2.8	14
54	Molecular Features of Phosphatase and Tensin Homolog (PTEN) Regulation by C-terminal Phosphorylation. <i>Journal of Biological Chemistry</i> , 2016, 291, 14160-14169.	1.6	41

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55	Histone deacetylase inhibitors decrease NHEJ both by acetylation of repair factors and trapping of PARP1 at DNA double-strand breaks in chromatin. <i>Leukemia Research</i> , 2016, 45, 14-23.	0.4	65
56	Enzyme-catalyzed expressed protein ligation. <i>Nature Methods</i> , 2016, 13, 925-927.	9.0	49
57	An Fc-Small Molecule Conjugate for Targeted Inhibition of the Adenosine ^{2A} Receptor. <i>ChemBioChem</i> , 2016, 17, 1951-1960.	1.3	1
58	Interaction with the DNA Repair Protein Thymine DNA Glycosylase Regulates Histone Acetylation by p300. <i>Biochemistry</i> , 2016, 55, 6766-6775.	1.2	17
59	Enzymatic Analysis of PTEN Ubiquitylation by WWP2 and NEDD4-1 E3 Ligases. <i>Biochemistry</i> , 2016, 55, 3658-3666.	1.2	34
60	Modulation of p300/CBP Acetylation of Nucleosomes by Bromodomain Ligand I-CBP112. <i>Biochemistry</i> , 2016, 55, 3727-3734.	1.2	41
61	CBP binding outside of promoters and enhancers in <i>Drosophila melanogaster</i> . <i>Epigenetics and Chromatin</i> , 2015, 8, 48.	1.8	24
62	Protein Lysine Acetylation by p300/CBP. <i>Chemical Reviews</i> , 2015, 115, 2419-2452.	23.0	398
63	Mechanistic analysis of ghrelin-O-acyltransferase using substrate analogs. <i>Bioorganic Chemistry</i> , 2015, 62, 64-73.	2.0	17
64	Synthetic approaches to protein phosphorylation. <i>Current Opinion in Chemical Biology</i> , 2015, 28, 115-122.	2.8	93
65	YcgC represents a new protein deacetylase family in prokaryotes. <i>ELife</i> , 2015, 4, .	2.8	52
66	Switching immune signals on and off. <i>ELife</i> , 2015, 4, .	2.8	1
67	The Interplay of Phosphorylation and Ubiquitylation in the Regulation of PTEN. <i>FASEB Journal</i> , 2015, 29, 570.2.	0.2	0
68	Targeting Reversible Lysine Modifications. <i>FASEB Journal</i> , 2015, 29, 107.3.	0.2	0
69	Structural basis of nSH2 regulation and lipid binding in PI3K β . <i>Oncotarget</i> , 2014, 5, 5198-5208.	0.8	62
70	Regulation of S-Adenosylhomocysteine Hydrolase by Lysine Acetylation. <i>Journal of Biological Chemistry</i> , 2014, 289, 31361-31372.	1.6	24
71	Catalytic Mechanisms and Regulation of Protein Kinases. <i>Methods in Enzymology</i> , 2014, 548, 1-21.	0.4	107
72	Two Histone/Protein Acetyltransferases, CBP and p300, Are Indispensable for Foxp3 ^{hi} T-Regulatory Cell Development and Function. <i>Molecular and Cellular Biology</i> , 2014, 34, 3993-4007.	1.1	75

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73	An Fc Domain Protein–Small Molecule Conjugate as an Enhanced Immunomodulator. <i>Journal of the American Chemical Society</i> , 2014, 136, 3370-3373.	6.6	14
74	A Selective Phenelzine Analogue Inhibitor of Histone Demethylase LSD1. <i>ACS Chemical Biology</i> , 2014, 9, 1284-1293.	1.6	88
75	How IGF-1 activates its receptor. <i>ELife</i> , 2014, 3, .	2.8	154
76	Inhibition of p300 impairs Foxp3+ T regulatory cell function and promotes antitumor immunity. <i>Nature Medicine</i> , 2013, 19, 1173-1177.	15.2	168
77	Open questions: two challenges in chemical biology - chemical engineering and the science of diet. <i>BMC Biology</i> , 2013, 11, 87.	1.7	1
78	Selective Inhibition of p300 HAT Blocks Cell Cycle Progression, Induces Cellular Senescence, and Inhibits the DNA Damage Response in Melanoma Cells. <i>Journal of Investigative Dermatology</i> , 2013, 133, 2444-2452.	0.3	87
79	Phosphorylation-mediated PTEN conformational closure and deactivation revealed with protein semisynthesis. <i>ELife</i> , 2013, 2, e00691.	2.8	89
80	The Epigenetic Regulators CBP and p300 Facilitate Leukemogenesis and Represent Therapeutic Targets In Acute Myeloid Leukemia (AML). <i>Blood</i> , 2013, 122, 3732-3732.	0.6	0
81	Regulation of CK2 by phosphorylation and O-GlcNAcylation revealed by semisynthesis. <i>Nature Chemical Biology</i> , 2012, 8, 262-269.	3.9	148
82	Azalsine Analogues as Probes for Protein Lysine Deacetylation and Demethylation. <i>Journal of the American Chemical Society</i> , 2012, 134, 5138-5148.	6.6	49
83	Live–Cell Studies of p300/CBP Histone Acetyltransferase Activity and Inhibition. <i>ChemBioChem</i> , 2012, 13, 2113-2121.	1.3	47
84	Regulation of Myf5 Early Enhancer by Histone Acetyltransferase P300 during Stem Cell Differentiation. <i>Molecular Biology (Los Angeles, Calif)</i> , 2012, 01, .	0.0	19
85	Tackling Targets in Epigenetics. <i>FASEB Journal</i> , 2012, 26, 230.3.	0.2	0
86	Inhibition of the Acetyltransferases p300 and CBP Reveals a Targetable Function for p300 in the Survival and Invasion Pathways of Prostate Cancer Cell Lines. <i>Molecular Cancer Therapeutics</i> , 2011, 10, 1644-1655.	1.9	188
87	Virtual Ligand Screening of the p300/CBP Histone Acetyltransferase: Identification of a Selective Small Molecule Inhibitor. <i>Chemistry and Biology</i> , 2010, 17, 471-482.	6.2	538
88	Site-Specific Introduction of an Acetyl-Lysine Mimic into Peptides and Proteins by Cysteine Alkylation. <i>Journal of the American Chemical Society</i> , 2010, 132, 9986-9987.	6.6	107
89	Comparative Analysis of Small Molecules and Histone Substrate Analogues as LSD1 Lysine Demethylase Inhibitors. <i>Journal of the American Chemical Society</i> , 2010, 132, 3164-3176.	6.6	149
90	Analysis of p300/CBP Histone Acetyltransferase Regulation Using Circular Permutation and Semisynthesis. <i>Journal of the American Chemical Society</i> , 2010, 132, 1222-1223.	6.6	19

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91	BCL6 repression of EP300 in human diffuse large B cell lymphoma cells provides a basis for rational combinatorial therapy. <i>Journal of Clinical Investigation</i> , 2010, 120, 4569-4582.	3.9	101
92	In Vitro Enzymatic Characterization of Near Full Length EGFR in Activated and Inhibited States. <i>Biochemistry</i> , 2009, 48, 6624-6632.	1.2	47
93	Structure and chemistry of the human p300/CBP and yeast Rtt109 histone acetyltransferase. <i>FASEB Journal</i> , 2009, 23, 89.2.	0.2	0
94	The structural basis of protein acetylation by the p300/CBP transcriptional coactivator. <i>Nature</i> , 2008, 451, 846-850.	13.7	381
95	Structure and chemistry of the p300/CBP and Rtt109 histone acetyltransferases: implications for histone acetyltransferase evolution and function. <i>Current Opinion in Structural Biology</i> , 2008, 18, 741-747.	2.6	152
96	Chemical probes for histone-modifying enzymes. <i>Nature Chemical Biology</i> , 2008, 4, 590-597.	3.9	231
97	Mechanistic Analysis of a Suicide Inactivator of Histone Demethylase LSD1. <i>Biochemistry</i> , 2007, 46, 6892-6902.	1.2	87
98	LSD1 and the chemistry of histone demethylation. <i>Current Opinion in Chemical Biology</i> , 2007, 11, 561-568.	2.8	128
99	Connectivity Mapping of BCL6 Targeted Therapy Guides Rational Design of Potent and Specific Non-Chemotherapy Combinatorial Regimens in DLBCL. <i>Blood</i> , 2007, 110, 523-523.	0.6	1
100	The Role of the Phospho-CDK2/Cyclin A Recruitment Site in Substrate Recognition. <i>Journal of Biological Chemistry</i> , 2006, 281, 23167-23179.	1.6	79
101	Chemical Rescue of a Mutant Enzyme in Living Cells. <i>Science</i> , 2006, 311, 1293-1297.	6.0	111
102	Protein semisynthesis and expressed protein ligation: chasing a protein's tail. <i>Current Opinion in Chemical Biology</i> , 2005, 9, 561-569.	2.8	79
103	p300/CBP-associated Factor Drives DEK into Interchromatin Granule Clusters. <i>Journal of Biological Chemistry</i> , 2005, 280, 31760-31767.	1.6	53
104	Regulation of the p300 HAT domain via a novel activation loop. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 308-315.	3.6	374
105	Histone Demethylation Mediated by the Nuclear Amine Oxidase Homolog LSD1. <i>Cell</i> , 2004, 119, 941-953.	13.5	3,626
106	Histone Acetyltransferase Activity of p300 Is Required for Transcriptional Repression by the Promyelocytic Leukemia Zinc Finger Protein. <i>Blood</i> , 2004, 104, 359-359.	0.6	0
107	Protein tyrosine kinases Src and Csk: a tail's tale. <i>Current Opinion in Chemical Biology</i> , 2003, 7, 580-585.	2.8	84
108	Chemical Approaches to Reversible Protein Phosphorylation. <i>Accounts of Chemical Research</i> , 2003, 36, 444-452.	7.6	26

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109	Down-regulation of p300/CBP histone acetyltransferase activates a senescence checkpoint in human melanocytes. <i>Cancer Research</i> , 2002, 62, 6231-9.	0.4	120
110	Mechanism-based design of a protein kinase inhibitor. <i>Nature Structural Biology</i> , 2001, 8, 37-41.	9.7	185
111	p300/CBP-associated Factor Histone Acetyltransferase Processing of a Peptide Substrate. <i>Journal of Biological Chemistry</i> , 2000, 275, 21953-21959.	1.6	100
112	HATs off. <i>Molecular Cell</i> , 2000, 5, 589-595.	4.5	376