Paul A Clemons

List of Publications by Year
in descending order

90 papers	19,360 citations	44069 48 h-index	49909 87 g-index
95 all docs	95 docs citations	95 times ranked	25632 citing authors

#	Article	IF	Citations
1	Phenotypic Screening for Small Molecules that Protect Î²-Cells from Glucolipotoxicity. ACS Chemical Biology, 2022, , .	3.4	4
2	Machine Learning on DNA-Encoded Library Count Data Using an Uncertainty-Aware Probabilistic Loss Function. Journal of Chemical Information and Modeling, 2022, 62, 2316-2331.	5.4	20
3	Biolink Model: A universal schema for knowledge graphs in clinical, biomedical, and translational science. Clinical and Translational Science, 2022, 15, 1848-1855.	3.1	38
4	Targeted brachyury degradation disrupts a highly specific autoregulatory program controlling chordoma cell identity. Cell Reports Medicine, 2021, 2, 100188.	6.5	15
5	An expanded universe of cancer targets. Cell, 2021, 184, 1142-1155.	28.9	135
6	The Use of Informer Sets in Screening: Perspectives on an Efficient Strategy to Identify New Probes. SLAS Discovery, 2021, 26, 855-861.	2.7	8
7	Plasticity of ether lipids promotes ferroptosis susceptibility and evasion. Nature, 2020, 585, 603-608.	27.8	420
8	Selective covalent targeting of GPX4 using masked nitrile-oxide electrophiles. Nature Chemical Biology, 2020, 16, 497-506.	8.0	229
9	Small-molecule targeting of brachyury transcription factor addiction in chordoma. Nature Medicine, 2019, 25, 292-300.	30.7	120
10	DNA Barcoding a Complete Matrix of Stereoisomeric Small Molecules. Journal of the American Chemical Society, 2019, 141, 10225-10235.	13.7	79
11	A High-Throughput Platform to Identify Small-Molecule Inhibitors of CRISPR-Cas9. Cell, 2019, 177, 1067-1079.e19.	28.9	133
12	High-resolution specificity profiling and off-target prediction for site-specific DNA recombinases. Nature Communications, 2019, 10, 1937.	12.8	22
13	A GPX4-dependent cancer cell state underlies the clear-cell morphology and confers sensitivity to ferroptosis. Nature Communications, 2019, 10, 1617.	12.8	499
14	Computational Analyses Connect Small-Molecule Sensitivity to Cellular Features Using Large Panels of Cancer Cell Lines. Methods in Molecular Biology, 2019, 1888, 233-254.	0.9	1
15	RWEN: response-weighted elastic net for prediction of chemosensitivity of cancer cell lines. Bioinformatics, 2018, 34, 3332-3339.	4.1	21
16	Chemical Space Overlap with Critical Proteinâ€Protein Interface Residues in Commercial and Specialized Smallâ€Molecule Libraries. ChemMedChem, 2018, 14, 119-131.	3.2	4
17	Modeling the impact of drug interactions on therapeutic selectivity. Nature Communications, 2018, 9, 3452.	12.8	18
18	Synergistic Effects of Stereochemistry and Appendages on the Performance Diversity of a Collection of Synthetic Compounds. Journal of the American Chemical Society, 2018, 140, 11784-11790.	13.7	47

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19	A precision oncology approach to the pharmacological targeting of mechanistic dependencies in neuroendocrine tumors. Nature Genetics, 2018, 50, 979-989.	21.4	168
20	Data-analysis strategies for image-based cell profiling. Nature Methods, 2017, 14, 849-863.	19.0	535
21	Dependency of a therapy-resistant state of cancer cells on a lipid peroxidase pathway. Nature, 2017, 547, 453-457.	27.8	1,194
22	CTD2 Dashboard: a searchable web interface to connect validated results from the Cancer Target Discovery and Development Network. Database: the Journal of Biological Databases and Curation, 2017, 2017, .	3.0	23
23	Real-Time Biological Annotation of Synthetic Compounds. Journal of the American Chemical Society, 2016, 138, 8920-8927.	13.7	39
24	DiSCoVERing Innovative Therapies for Rare Tumors: Combining Genetically Accurate Disease Models with <i>In Silico</i> Analysis to Identify Novel Therapeutic Targets. Clinical Cancer Research, 2016, 22, 3903-3914.	7.0	54
25	Diversity-oriented synthesis yields novel multistage antimalarial inhibitors. Nature, 2016, 538, 344-349.	27.8	214
26	Identification of cancer-cytotoxic modulators of PDE3A by predictive chemogenomics. Nature Chemical Biology, 2016, 12, 102-108.	8.0	72
27	Correlating chemical sensitivity and basal gene expression reveals mechanism of action. Nature Chemical Biology, 2016, 12, 109-116.	8.0	636
28	Inhibition of DYRK1A Stimulates Human Î²-Cell Proliferation. Diabetes, 2016, 65, 1660-1671.	0.6	157
29	Inhibition of the Enzyme Dihydroorotate Dehydrogenase Overcomes Differentiation Blockade in Acute Myeloid Leukemia. Blood, 2016, 128, 1656-1656.	1.4	3
30	Kinase-Independent Small-Molecule Inhibition of JAK-STAT Signaling. Journal of the American Chemical Society, 2015, 137, 7929-7934.	13.7	29
31	Advancing Biological Understanding and Therapeutics Discovery with Small-Molecule Probes. Cell, 2015, 161, 1252-1265.	28.9	135
32	High-Throughput Luminescent Reporter of Insulin Secretion for Discovering Regulators of Pancreatic Beta-Cell Function. Cell Metabolism, 2015, 21, 126-137.	16.2	97
33	Harnessing Connectivity in a Large-Scale Small-Molecule Sensitivity Dataset. Cancer Discovery, 2015, 5, 1210-1223.	9.4	575
34	Small-molecule enhancers of autophagy modulate cellular disease phenotypes suggested by human genetics. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4281-7.	7.1	56
35	Integrating phenotypic small-molecule profiling and human genetics: the next phase in drug discovery. Trends in Genetics, 2015, 31, 16-23.	6.7	16
36	Linking Tumor Mutations to Drug Responses via a Quantitative Chemicalâ€“Genetic Interaction Map. Cancer Discovery, 2015, 5, 154-167.	9.4	57

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37	Quantitative-Proteomic Comparison of Alpha and Beta Cells to Uncover Novel Targets for Lineage Reprogramming. PLoS ONE, 2014, 9, e95194.	2.5	27
38	Automated Structureâ€"Activity Relationship Mining: Connecting Chemical Structure to Biological Profiles. Journal of Biomolecular Screening, 2014, 19, 738-748.	2.6	19
39	Connecting Small Molecules with Similar Assay Performance Profiles Leads to New Biological Hypotheses. Journal of Biomolecular Screening, 2014, 19, 771-781.	2.6	37
40	An Overview of the Challenges in Designing, Integrating, and Delivering BARD: A Public Chemical-Biology Resource and Query Portal for Multiple Organizations, Locations, and Disciplines. Journal of Biomolecular Screening, 2014, 19, 614-627.	2.6	22
41	Regulation of Ferroptotic Cancer Cell Death by GPX4. Cell, 2014, 156, 317-331.	28.9	4,187
42	NAMPT Is the Cellular Target of STF-31-Like Small-Molecule Probes. ACS Chemical Biology, 2014, 9, 2247-2254.	3.4	60
43	Predicting Cancer-Specific Vulnerability via Data-Driven Detection of Synthetic Lethality. Cell, 2014, 158, 1199-1209.	28.9	249
44	Toward performance-diverse small-molecule libraries for cell-based phenotypic screening using multiplexed high-dimensional profiling. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10911-10916.	7.1	191
45	Knowledge from Small-Molecule Screening and Profiling Data. Journal of Biomolecular Screening, 2014, 19, 611-613.	2.6	0
46	An Interactive Resource to Identify Cancer Genetic and Lineage Dependencies Targeted by Small Molecules. Cell, 2013, 154, 1151-1161.	28.9	615
47	Niche-based screening identifies small-molecule inhibitors of leukemia stem cells. Nature Chemical Biology, 2013, 9, 840-848.	8.0	103
48	Target identification and mechanism of action in chemical biology and drug discovery. Nature Chemical Biology, 2013, 9, 232-240.	8.0	814
49	Human Genetics in Rheumatoid Arthritis Guides a High-Throughput Drug Screen of the CD40 Signaling Pathway. PLoS Genetics, 2013, 9, e1003487.	3.5	52
50	Comparison of Methods for Image-Based Profiling of Cellular Morphological Responses to Small-Molecule Treatment. Journal of Biomolecular Screening, 2013, 18, 1321-1329.	2.6	166
51	Multiplex Cytological Profiling Assay to Measure Diverse Cellular States. PLoS ONE, 2013, 8, e80999.	2.5	224
52	Chromatin-targeting small molecules cause class-specific transcriptional changes in pancreatic endocrine cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 5364-5369.	7.1	53
53	Identification of Regulators of Polyploidization Presents Therapeutic Targets for Treatment of AMKL. Cell, 2012, 150, 575-589.	28.9	136
54	Utility-Aware Screening with Clique-Oriented Prioritization. Journal of Chemical Information and Modeling, 2012, 52, 29-37.	5.4	7

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55	A Human Islet Cell Culture System for High-Throughput Screening. Journal of Biomolecular Screening, 2012, 17, 509-518.	2.6	54
56	Phenothiazines Induce Apoptosis in T-Cell Acute Lymphoblastic Leukemia by Activating the Phosphatase Activity of the PP2A Tumor Suppressor. Blood, 2012, 120, 3558-3558.	1.4	2
57	Route to three-dimensional fragments using diversity-oriented synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6799-6804.	7.1	246
58	A Small-Molecule Screening Strategy To Identify Suppressors of Statin Myopathy. ACS Chemical Biology, 2011, 6, 900-904.	3.4	21
59	Assay of the Multiple Energy-Producing Pathways of Mammalian Cells. PLoS ONE, 2011, 6, e18147.	2.5	52
60	Cover Picture: The Binding of Fluorophores to Proteins Depends on the Cellular Environment (Angew. Chem. Int. Ed. 12/2011). Angewandte Chemie - International Edition, 2011, 50, 2649-2649.	13.8	1
61	Disease allele-dependent small-molecule sensitivities in blood cells from monogenic diabetes. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 492-497.	7.1	16
62	Quantifying structure and performance diversity for sets of small molecules comprising small-molecule screening collections. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6817-6822.	7.1	98
63	Towards patient-based cancer therapeutics. Nature Biotechnology, 2010, 28, 904-906.	17.5	65
64	Small molecules of different origins have distinct distributions of structural complexity that correlate with protein-binding profiles. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 18787-18792.	7.1	302
65	An Economic Framework to Prioritize Confirmatory Tests after a High-Throughput Screen. Journal of Biomolecular Screening, 2010, 15, 680-686.	2.6	14
66	Distinct Biological Network Properties between the Targets of Natural Products and Disease Genes. Journal of the American Chemical Society, 2010, 132, 9259-9261.	13.7	79
67	Small-molecule inducers of insulin expression in pancreatic Î±-cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15099-15104.	7.1	62
68	Expanding Stereochemical and Skeletal Diversity Using Petasis Reactions and 1,3-Dipolar Cycloadditions. Organic Letters, 2010, 12, 5230-5233.	4.6	28
69	Small-Molecule Suppressors of Cytokine-Induced Î²-Cell Apoptosis. ACS Chemical Biology, 2010, 5, 729-734.	3.4	38
70	Stereochemical and Skeletal Diversity Arising from Amino Propargylic Alcohols. Organic Letters, 2010, 12, 2822-2825.	4.6	50
71	Connecting synthetic chemistry decisions to cell and genome biology using small-molecule phenotypic profiling. Current Opinion in Chemical Biology, 2009, 13, 539-548.	6.1	34
72	Alpha Shapes Applied to Molecular Shape Characterization Exhibit Novel Properties Compared to Established Shape Descriptors. Journal of Chemical Information and Modeling, 2009, 49, 2231-2241.	5.4	48

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73	Using Biological Performance Similarity To Inform Disaccharide Library Design. Journal of the American Chemical Society, 2009, 131, 5075-5083.	13.7	19
74	Small-Molecule Fluorophores To Detect Cell-State Switching in the Context of High-Throughput Screening. Journal of the American Chemical Society, 2008, 130, 4208-4209.	13.7	51
75	Chemogenomic Data Analysis: Prediction of Small-Molecule Targets and the Advent of Biological Fingerprints. Combinatorial Chemistry and High Throughput Screening, 2007, 10, 719-731.	1.1	97
76	A pipeline for ligand discovery using small-molecule microarrays. Current Opinion in Chemical Biology, 2007, 11, 74-82.	6.1	97
77	The Connectivity Map: Using Gene-Expression Signatures to Connect Small Molecules, Genes, and Disease. Science, 2006, 313, 1929-1935.	12.6	4,472
78	Small Molecules, Big Players: the National Cancer Institute's Initiative for Chemical Genetics. Cancer Research, 2006, 66, 8935-8942.	0.9	69
79	Complex phenotypic assays in high-throughput screening. Current Opinion in Chemical Biology, 2004, 8, 334-338.	6.1	93
80	Chemical Genomics. Molecular Diagnosis and Therapy, 2004, 4, 313-320.	3.3	9
81	Mapping Chemical Space Using Molecular Descriptors and Chemical Genetics: Deacetylase Inhibitors. Combinatorial Chemistry and High Throughput Screening, 2004, 7, 669-76.	1.1	29
82	Chemical Genomic Profiling of Biological Networks Using Graph Theory and Combinations of Small Molecule Perturbations. Journal of the American Chemical Society, 2003, 125, 10543-10545.	13.7	57
83	Uncleaved BAP31 in Association with A4 Protein at the Endoplasmic Reticulum Is an Inhibitor of Fas-initiated Release of Cytochromec from Mitochondria. Journal of Biological Chemistry, 2003, 278, 14461-14468.	3.4	62
84	Dual-purpose drug discovery. Trends in Biotechnology, 2002, 20, 492-493.	9.3	0
85	Synthesis of Calcineurin-Resistant Derivatives of FK506 and Selection of Compensatory Receptors. Chemistry and Biology, 2002, 9, 49-61.	6.0	37
86	Exploiting Siteâˆ'Site Interactions on Solid Support to Generate Dimeric Molecules. Organic Letters, 2001, 3, 1185-1188.	4.6	46
87	A one-bead, one-stock solution approach to chemical genetics: part 2. Chemistry and Biology, 2001, 8, 1183-1195.	6.0	101
88	Better signaling through chemistry. Trends in Biotechnology, 2001, 19, 127.	9.3	0
89	Be still my beating heart. Trends in Biotechnology, 2000, 18, 407.	9.3	0
90	Commentary. Current Opinion in Chemical Biology, 1999, 3, 112-115.	6.1	50