

Paul A Clemons

List of Publications by Year in descending order

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Version: 2024-02-01

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	The Connectivity Map: Using Gene-Expression Signatures to Connect Small Molecules, Genes, and Disease. <i>Science</i> , 2006, 313, 1929-1935.	12.6	4,472
2	Regulation of Ferroptotic Cancer Cell Death by GPX4. <i>Cell</i> , 2014, 156, 317-331.	28.9	4,187
3	Dependency of a therapy-resistant state of cancer cells on a lipid peroxidase pathway. <i>Nature</i> , 2017, 547, 453-457.	27.8	1,194
4	Target identification and mechanism of action in chemical biology and drug discovery. <i>Nature Chemical Biology</i> , 2013, 9, 232-240.	8.0	814
5	Correlating chemical sensitivity and basal gene expression reveals mechanism of action. <i>Nature Chemical Biology</i> , 2016, 12, 109-116.	8.0	636
6	An Interactive Resource to Identify Cancer Genetic and Lineage Dependencies Targeted by Small Molecules. <i>Cell</i> , 2013, 154, 1151-1161.	28.9	615
7	Harnessing Connectivity in a Large-Scale Small-Molecule Sensitivity Dataset. <i>Cancer Discovery</i> , 2015, 5, 1210-1223.	9.4	575
8	Data-analysis strategies for image-based cell profiling. <i>Nature Methods</i> , 2017, 14, 849-863.	19.0	535
9	A GPX4-dependent cancer cell state underlies the clear-cell morphology and confers sensitivity to ferroptosis. <i>Nature Communications</i> , 2019, 10, 1617.	12.8	499
10	Plasticity of ether lipids promotes ferroptosis susceptibility and evasion. <i>Nature</i> , 2020, 585, 603-608.	27.8	420
11	Small molecules of different origins have distinct distributions of structural complexity that correlate with protein-binding profiles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18787-18792.	7.1	302
12	Predicting Cancer-Specific Vulnerability via Data-Driven Detection of Synthetic Lethality. <i>Cell</i> , 2014, 158, 1199-1209.	28.9	249
13	Route to three-dimensional fragments using diversity-oriented synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6799-6804.	7.1	246
14	Selective covalent targeting of GPX4 using masked nitrile-oxide electrophiles. <i>Nature Chemical Biology</i> , 2020, 16, 497-506.	8.0	229
15	Multiplex Cytological Profiling Assay to Measure Diverse Cellular States. <i>PLoS ONE</i> , 2013, 8, e80999.	2.5	224
16	Diversity-oriented synthesis yields novel multistage antimalarial inhibitors. <i>Nature</i> , 2016, 538, 344-349.	27.8	214
17	Toward performance-diverse small-molecule libraries for cell-based phenotypic screening using multiplexed high-dimensional profiling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10911-10916.	7.1	191
18	A precision oncology approach to the pharmacological targeting of mechanistic dependencies in neuroendocrine tumors. <i>Nature Genetics</i> , 2018, 50, 979-989.	21.4	168

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19	Comparison of Methods for Image-Based Profiling of Cellular Morphological Responses to Small-Molecule Treatment. <i>Journal of Biomolecular Screening</i> , 2013, 18, 1321-1329.	2.6	166
20	Inhibition of DYRK1A Stimulates Human β -Cell Proliferation. <i>Diabetes</i> , 2016, 65, 1660-1671.	0.6	157
21	Identification of Regulators of Polyploidization Presents Therapeutic Targets for Treatment of AMKL. <i>Cell</i> , 2012, 150, 575-589.	28.9	136
22	Advancing Biological Understanding and Therapeutics Discovery with Small-Molecule Probes. <i>Cell</i> , 2015, 161, 1252-1265.	28.9	135
23	An expanded universe of cancer targets. <i>Cell</i> , 2021, 184, 1142-1155.	28.9	135
24	A High-Throughput Platform to Identify Small-Molecule Inhibitors of CRISPR-Cas9. <i>Cell</i> , 2019, 177, 1067-1079.e19.	28.9	133
25	Small-molecule targeting of brachyury transcription factor addiction in chordoma. <i>Nature Medicine</i> , 2019, 25, 292-300.	30.7	120
26	Niche-based screening identifies small-molecule inhibitors of leukemia stem cells. <i>Nature Chemical Biology</i> , 2013, 9, 840-848.	8.0	103
27	A one-bead, one-stock solution approach to chemical genetics: part 2. <i>Chemistry and Biology</i> , 2001, 8, 1183-1195.	6.0	101
28	Quantifying structure and performance diversity for sets of small molecules comprising small-molecule screening collections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6817-6822.	7.1	98
29	Chemogenomic Data Analysis: Prediction of Small-Molecule Targets and the Advent of Biological Fingerprints. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2007, 10, 719-731.	1.1	97
30	A pipeline for ligand discovery using small-molecule microarrays. <i>Current Opinion in Chemical Biology</i> , 2007, 11, 74-82.	6.1	97
31	High-Throughput Luminescent Reporter of Insulin Secretion for Discovering Regulators of Pancreatic Beta-Cell Function. <i>Cell Metabolism</i> , 2015, 21, 126-137.	16.2	97
32	Complex phenotypic assays in high-throughput screening. <i>Current Opinion in Chemical Biology</i> , 2004, 8, 334-338.	6.1	93
33	Distinct Biological Network Properties between the Targets of Natural Products and Disease Genes. <i>Journal of the American Chemical Society</i> , 2010, 132, 9259-9261.	13.7	79
34	DNA Barcoding a Complete Matrix of Stereoisomeric Small Molecules. <i>Journal of the American Chemical Society</i> , 2019, 141, 10225-10235.	13.7	79
35	Identification of cancer-cytotoxic modulators of PDE3A by predictive chemogenomics. <i>Nature Chemical Biology</i> , 2016, 12, 102-108.	8.0	72
36	Small Molecules, Big Players: the National Cancer Institute's Initiative for Chemical Genetics. <i>Cancer Research</i> , 2006, 66, 8935-8942.	0.9	69

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37	Towards patient-based cancer therapeutics. <i>Nature Biotechnology</i> , 2010, 28, 904-906.	17.5	65
38	Uncleaved BAP31 in Association with A4 Protein at the Endoplasmic Reticulum Is an Inhibitor of Fas-initiated Release of Cytochrome c from Mitochondria. <i>Journal of Biological Chemistry</i> , 2003, 278, 14461-14468.	3.4	62
39	Small-molecule inducers of insulin expression in pancreatic β -cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15099-15104.	7.1	62
40	NAMPT Is the Cellular Target of STF-31-Like Small-Molecule Probes. <i>ACS Chemical Biology</i> , 2014, 9, 2247-2254.	3.4	60
41	Chemical Genomic Profiling of Biological Networks Using Graph Theory and Combinations of Small Molecule Perturbations. <i>Journal of the American Chemical Society</i> , 2003, 125, 10543-10545.	13.7	57
42	Linking Tumor Mutations to Drug Responses via a Quantitative Chemical-Genetic Interaction Map. <i>Cancer Discovery</i> , 2015, 5, 154-167.	9.4	57
43	Small-molecule enhancers of autophagy modulate cellular disease phenotypes suggested by human genetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4281-7.	7.1	56
44	A Human Islet Cell Culture System for High-Throughput Screening. <i>Journal of Biomolecular Screening</i> , 2012, 17, 509-518.	2.6	54
45	DiSCoVERing Innovative Therapies for Rare Tumors: Combining Genetically Accurate Disease Models with <i>In Silico</i> Analysis to Identify Novel Therapeutic Targets. <i>Clinical Cancer Research</i> , 2016, 22, 3903-3914.	7.0	54
46	Chromatin-targeting small molecules cause class-specific transcriptional changes in pancreatic endocrine cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5364-5369.	7.1	53
47	Assay of the Multiple Energy-Producing Pathways of Mammalian Cells. <i>PLoS ONE</i> , 2011, 6, e18147.	2.5	52
48	Human Genetics in Rheumatoid Arthritis Guides a High-Throughput Drug Screen of the CD40 Signaling Pathway. <i>PLoS Genetics</i> , 2013, 9, e1003487.	3.5	52
49	Small-Molecule Fluorophores To Detect Cell-State Switching in the Context of High-Throughput Screening. <i>Journal of the American Chemical Society</i> , 2008, 130, 4208-4209.	13.7	51
50	Commentary. <i>Current Opinion in Chemical Biology</i> , 1999, 3, 112-115.	6.1	50
51	Stereochemical and Skeletal Diversity Arising from Amino Propargylic Alcohols. <i>Organic Letters</i> , 2010, 12, 2822-2825.	4.6	50
52	Alpha Shapes Applied to Molecular Shape Characterization Exhibit Novel Properties Compared to Established Shape Descriptors. <i>Journal of Chemical Information and Modeling</i> , 2009, 49, 2231-2241.	5.4	48
53	Synergistic Effects of Stereochemistry and Appendages on the Performance Diversity of a Collection of Synthetic Compounds. <i>Journal of the American Chemical Society</i> , 2018, 140, 11784-11790.	13.7	47
54	Exploiting Site-Site Interactions on Solid Support to Generate Dimeric Molecules. <i>Organic Letters</i> , 2001, 3, 1185-1188.	4.6	46

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55	Real-Time Biological Annotation of Synthetic Compounds. <i>Journal of the American Chemical Society</i> , 2016, 138, 8920-8927.	13.7	39
56	Small-Molecule Suppressors of Cytokine-Induced \hat{I}^2 -Cell Apoptosis. <i>ACS Chemical Biology</i> , 2010, 5, 729-734.	3.4	38
57	Biolink Model: A universal schema for knowledge graphs in clinical, biomedical, and translational science. <i>Clinical and Translational Science</i> , 2022, 15, 1848-1855.	3.1	38
58	Synthesis of Calcineurin-Resistant Derivatives of FK506 and Selection of Compensatory Receptors. <i>Chemistry and Biology</i> , 2002, 9, 49-61.	6.0	37
59	Connecting Small Molecules with Similar Assay Performance Profiles Leads to New Biological Hypotheses. <i>Journal of Biomolecular Screening</i> , 2014, 19, 771-781.	2.6	37
60	Connecting synthetic chemistry decisions to cell and genome biology using small-molecule phenotypic profiling. <i>Current Opinion in Chemical Biology</i> , 2009, 13, 539-548.	6.1	34
61	Mapping Chemical Space Using Molecular Descriptors and Chemical Genetics: Deacetylase Inhibitors. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2004, 7, 669-76.	1.1	29
62	Kinase-Independent Small-Molecule Inhibition of JAK-STAT Signaling. <i>Journal of the American Chemical Society</i> , 2015, 137, 7929-7934.	13.7	29
63	Expanding Stereochemical and Skeletal Diversity Using Petasis Reactions and 1,3-Dipolar Cycloadditions. <i>Organic Letters</i> , 2010, 12, 5230-5233.	4.6	28
64	Quantitative-Proteomic Comparison of Alpha and Beta Cells to Uncover Novel Targets for Lineage Reprogramming. <i>PLoS ONE</i> , 2014, 9, e95194.	2.5	27
65	CTD2 Dashboard: a searchable web interface to connect validated results from the Cancer Target Discovery and Development Network. <i>Database: the Journal of Biological Databases and Curation</i> , 2017, 2017, .	3.0	23
66	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. <i>Journal of Biomolecular Screening</i> , 2014, 19, 614-627.	2.6	22
67	High-resolution specificity profiling and off-target prediction for site-specific DNA recombinases. <i>Nature Communications</i> , 2019, 10, 1937.	12.8	22
68	A Small-Molecule Screening Strategy To Identify Suppressors of Statin Myopathy. <i>ACS Chemical Biology</i> , 2011, 6, 900-904.	3.4	21
69	RWEN: response-weighted elastic net for prediction of chemosensitivity of cancer cell lines. <i>Bioinformatics</i> , 2018, 34, 3332-3339.	4.1	21
70	Machine Learning on DNA-Encoded Library Count Data Using an Uncertainty-Aware Probabilistic Loss Function. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 2316-2331.	5.4	20
71	Using Biological Performance Similarity To Inform Disaccharide Library Design. <i>Journal of the American Chemical Society</i> , 2009, 131, 5075-5083.	13.7	19
72	Automated Structure-Activity Relationship Mining: Connecting Chemical Structure to Biological Profiles. <i>Journal of Biomolecular Screening</i> , 2014, 19, 738-748.	2.6	19

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73	Modeling the impact of drug interactions on therapeutic selectivity. <i>Nature Communications</i> , 2018, 9, 3452.	12.8	18
74	Disease allele-dependent small-molecule sensitivities in blood cells from monogenic diabetes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 492-497.	7.1	16
75	Integrating phenotypic small-molecule profiling and human genetics: the next phase in drug discovery. <i>Trends in Genetics</i> , 2015, 31, 16-23.	6.7	16
76	Targeted brachyury degradation disrupts a highly specific autoregulatory program controlling chordoma cell identity. <i>Cell Reports Medicine</i> , 2021, 2, 100188.	6.5	15
77	An Economic Framework to Prioritize Confirmatory Tests after a High-Throughput Screen. <i>Journal of Biomolecular Screening</i> , 2010, 15, 680-686.	2.6	14
78	Chemical Genomics. <i>Molecular Diagnosis and Therapy</i> , 2004, 4, 313-320.	3.3	9
79	The Use of Informer Sets in Screening: Perspectives on an Efficient Strategy to Identify New Probes. <i>SLAS Discovery</i> , 2021, 26, 855-861.	2.7	8
80	Utility-Aware Screening with Clique-Oriented Prioritization. <i>Journal of Chemical Information and Modeling</i> , 2012, 52, 29-37.	5.4	7
81	Chemical Space Overlap with Critical Protein-Protein Interface Residues in Commercial and Specialized Small-Molecule Libraries. <i>ChemMedChem</i> , 2018, 14, 119-131.	3.2	4
82	Phenotypic Screening for Small Molecules that Protect β -Cells from Glucolipototoxicity. <i>ACS Chemical Biology</i> , 2022, , .	3.4	4
83	Inhibition of the Enzyme Dihydroorotate Dehydrogenase Overcomes Differentiation Blockade in Acute Myeloid Leukemia. <i>Blood</i> , 2016, 128, 1656-1656.	1.4	3
84	Phenothiazines Induce Apoptosis in T-Cell Acute Lymphoblastic Leukemia by Activating the Phosphatase Activity of the PP2A Tumor Suppressor. <i>Blood</i> , 2012, 120, 3558-3558.	1.4	2
85	Cover Picture: The Binding of Fluorophores to Proteins Depends on the Cellular Environment (<i>Angew. Chem. Int. Ed.</i> 12/2011). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2649-2649.	13.8	1
86	Computational Analyses Connect Small-Molecule Sensitivity to Cellular Features Using Large Panels of Cancer Cell Lines. <i>Methods in Molecular Biology</i> , 2019, 1888, 233-254.	0.9	1
87	Be still my beating heart. <i>Trends in Biotechnology</i> , 2000, 18, 407.	9.3	0
88	Better signaling through chemistry. <i>Trends in Biotechnology</i> , 2001, 19, 127.	9.3	0
89	Dual-purpose drug discovery. <i>Trends in Biotechnology</i> , 2002, 20, 492-493.	9.3	0
90	Knowledge from Small-Molecule Screening and Profiling Data. <i>Journal of Biomolecular Screening</i> , 2014, 19, 611-613.	2.6	0