

# Bridget K Wagner

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

4,414  
citations

168829

31  
h-index

156644

58  
g-index

63  
all docs

63  
docs citations

63  
times ranked

8580  
citing authors

#	ARTICLE	IF	CITATIONS
1	Target identification and mechanism of action in chemical biology and drug discovery. <i>Nature Chemical Biology</i> , 2013, 9, 232-240.	3.9	814
2	Correlating chemical sensitivity and basal gene expression reveals mechanism of action. <i>Nature Chemical Biology</i> , 2016, 12, 109-116.	3.9	636
3	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.	3.3	302
4	Targeting the pancreatic $\beta$ -cell to treat diabetes. <i>Nature Reviews Drug Discovery</i> , 2014, 13, 278-289.	21.5	228
5	Synthesis, cellular evaluation, and mechanism of action of piperlongumine analogs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15115-15120.	3.3	200
6	Large-scale chemical dissection of mitochondrial function. <i>Nature Biotechnology</i> , 2008, 26, 343-351.	9.4	186
7	Inhibition of DYRK1A Stimulates Human $\beta$ -Cell Proliferation. <i>Diabetes</i> , 2016, 65, 1660-1671.	0.3	157
8	A Small-Molecule Probe of the Histone Methyltransferase G9a Induces Cellular Senescence in Pancreatic Adenocarcinoma. <i>ACS Chemical Biology</i> , 2012, 7, 1152-1157.	1.6	141
9	A High-Throughput Platform to Identify Small-Molecule Inhibitors of CRISPR-Cas9. <i>Cell</i> , 2019, 177, 1067-1079.e19.	13.5	133
10	A one-bead, one-stock solution approach to chemical genetics: part 2. <i>Chemistry and Biology</i> , 2001, 8, 1183-1195.	6.2	101
11	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.	3.3	98
12	High-Throughput Luminescent Reporter of Insulin Secretion for Discovering Regulators of Pancreatic Beta-Cell Function. <i>Cell Metabolism</i> , 2015, 21, 126-137.	7.2	97
13	The Power of Sophisticated Phenotypic Screening and Modern Mechanism-of-Action Methods. <i>Cell Chemical Biology</i> , 2016, 23, 3-9.	2.5	97
14	Inhibition of Histone Deacetylase 3 Protects Beta Cells from Cytokine-Induced Apoptosis. <i>Chemistry and Biology</i> , 2012, 19, 669-673.	6.2	85
15	Gene expression-based screening identifies microtubule inhibitors as inducers of PGC-1 $\alpha$ and oxidative phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 4721-4726.	3.3	79
16	An Isochemogenic Set of Inhibitors To Define the Therapeutic Potential of Histone Deacetylases in $\beta$ -Cell Protection. <i>ACS Chemical Biology</i> , 2016, 11, 363-374.	1.6	78
17	Small-molecule inducers of insulin expression in pancreatic $\beta$ -cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15099-15104.	3.3	62
18	A Human Islet Cell Culture System for High-Throughput Screening. <i>Journal of Biomolecular Screening</i> , 2012, 17, 509-518.	2.6	54

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19	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.	6.6	51
20	A $\beta$ , Promoter Region Without Neuronal Specificity. <i>Journal of Neurochemistry</i> , 1996, 66, 2257-2263.	2.1	44
21	The resurgence of phenotypic screening in drug discovery and development. <i>Expert Opinion on Drug Discovery</i> , 2016, 11, 121-125.	2.5	44
22	Isoform-selective inhibitor of histone deacetylase 3 (HDAC3) limits pancreatic islet infiltration and protects female nonobese diabetic mice from diabetes. <i>Journal of Biological Chemistry</i> , 2017, 292, 17598-17608.	1.6	43
23	Synthesis of a Novel Suppressor of $\beta$ -Cell Apoptosis via Diversity-Oriented Synthesis. <i>ACS Medicinal Chemistry Letters</i> , 2011, 2, 698-702.	1.3	42
24	Real-Time Biological Annotation of Synthetic Compounds. <i>Journal of the American Chemical Society</i> , 2016, 138, 8920-8927.	6.6	39
25	Small-Molecule Suppressors of Cytokine-Induced $\beta$ -Cell Apoptosis. <i>ACS Chemical Biology</i> , 2010, 5, 729-734.	1.6	38
26	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
27	Nuisance compounds in cellular assays. <i>Cell Chemical Biology</i> , 2021, 28, 356-370.	2.5	37
28	Substrate-selective inhibitors that reprogram the activity of insulin-degrading enzyme. <i>Nature Chemical Biology</i> , 2019, 15, 565-574.	3.9	36
29	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.	2.8	34
30	A Small-Molecule Inducer of PDX1 Expression Identified by High-Throughput Screening. <i>Chemistry and Biology</i> , 2013, 20, 1513-1522.	6.2	34
31	Inhibition of HDAC3 as a strategy for developing novel diabetes therapeutics. <i>Epigenomics</i> , 2014, 6, 209-214.	1.0	32
32	Engineering designer beta cells with a CRISPR-Cas9 conjugation platform. <i>Nature Communications</i> , 2020, 11, 4043.	5.8	31
33	Kinase-Independent Small-Molecule Inhibition of JAK-STAT Signaling. <i>Journal of the American Chemical Society</i> , 2015, 137, 7929-7934.	6.6	29
34	Quantitative-Proteomic Comparison of Alpha and Beta Cells to Uncover Novel Targets for Lineage Reprogramming. <i>PLoS ONE</i> , 2014, 9, e95194.	1.1	27
35	The immunoproteasome is induced by cytokines and regulates apoptosis in human islets. <i>Journal of Endocrinology</i> , 2017, 233, 369-379.	1.2	26
36	Small-Molecule Inhibitors of Cytokine-Mediated STAT1 Signal Transduction in $\beta$ -Cells with Improved Aqueous Solubility. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 4125-4129.	2.9	22

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37	A 3D culture platform enables development of zinc-binding prodrugs for targeted proliferation of $\beta$ 2 cells. <i>Science Advances</i> , 2020, 6, .	4.7	22
38	Chemical Methods to Induce Beta-Cell Proliferation. <i>International Journal of Endocrinology</i> , 2012, 2012, 1-8.	0.6	20
39	Native Zinc Catalyzes Selective and Traceless Release of Small Molecules in $\beta$ 2-Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 6477-6482.	6.6	20
40	Automated Structure-Activity Relationship Mining: Connecting Chemical Structure to Biological Profiles. <i>Journal of Biomolecular Screening</i> , 2014, 19, 738-748.	2.6	19
41	Integrating phenotypic small-molecule profiling and human genetics: the next phase in drug discovery. <i>Trends in Genetics</i> , 2015, 31, 16-23.	2.9	16
42	Computational repurposing of therapeutic small molecules from cancer to pulmonary hypertension. <i>Science Advances</i> , 2021, 7, eabh3794.	4.7	16
43	GW8510 Increases Insulin Expression in Pancreatic Alpha Cells through Activation of p53 Transcriptional Activity. <i>PLoS ONE</i> , 2012, 7, e28808.	1.1	14
44	Evaluation of Compounds in Primary Human Islet Cell Culture. <i>Current Protocols in Chemical Biology</i> , 2014, 6, 157-168.	1.7	11
45	HDAC Inhibitor-Mediated Beta-Cell Protection Against Cytokine-Induced Toxicity Is STAT1 Tyr701 Phosphorylation Independent. <i>Journal of Interferon and Cytokine Research</i> , 2015, 35, 63-70.	0.5	11
46	Harnessing reaction-based probes to preferentially target pancreatic $\beta$ 2-cells and $\beta$ 2-like cells. <i>Life Science Alliance</i> , 2021, 4, e202000840.	1.3	10
47	The Use of Informer Sets in Screening: Perspectives on an Efficient Strategy to Identify New Probes. <i>SLAS Discovery</i> , 2021, 26, 855-861.	1.4	8
48	Grand Challenge Commentary: Chemical transdifferentiation and regenerative medicine. <i>Nature Chemical Biology</i> , 2010, 6, 877-879.	3.9	7
49	Addressing Compound Reactivity and Aggregation Assay Interferences: Case Studies of Biochemical High-Throughput Screening Campaigns Benefiting from the National Institutes of Health Assay Guidance Manual Guidelines. <i>SLAS Discovery</i> , 2021, 26, 1280-1290.	1.4	6
50	Phenotypic Screening for Small Molecules that Protect $\beta$ 2-Cells from Glucolipototoxicity. <i>ACS Chemical Biology</i> , 2022, , .	1.6	4
51	High-Throughput Real-Time PCR for Detection of Gene-Expression Levels. <i>Methods in Molecular Biology</i> , 2009, 486, 167-175.	0.4	3
52	Small-molecule discovery in the pancreatic beta cell. <i>Current Opinion in Chemical Biology</i> , 2022, 68, 102150.	2.8	3
53	The Genetic Landscape of $\beta$ 2-Cell Proliferation: Toward a Road Map. <i>Diabetes</i> , 2016, 65, 1789-1790.	0.3	2
54	When Small Molecules Are Like Real Estate: It's All about Location, Location, Location. <i>Cell Chemical Biology</i> , 2018, 25, 1169-1170.	2.5	2

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55	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.	7.2	1
56	Small Molecule-induced Beta-cell Regeneration from Alternate Cell Sources. Current Tissue Engineering, 2012, 1, 83-90.	0.2	1
57	From type 1 diabetes biology to therapy: The Human Islet Research Network. Molecular Metabolism, 2021, , 101283.	3.0	1
58	Low-fat worms on drugs. Nature Chemical Biology, 2011, 7, 194-195.	3.9	0