Zachary A Knight

List of Publications by Year
in descending order

66 papers	12,199 citations	44069 48 h-index	106344 65 g-index
71 all docs	71 docs citations	71 times ranked	18688 citing authors

#	Article	IF	Citations
1	A Pharmacological Map of the PI3-K Family Defines a Role for p110Î± in Insulin Signaling. Cell, 2006, 125, 733-747.	28.9	1,074
2	Active-Site Inhibitors of mTOR Target Rapamycin-Resistant Outputs of mTORC1 and mTORC2. PLoS Biology, 2009, 7, e1000038.	5.6	973
3	T cell receptor signaling controls Foxp3 expression via PI3K, Akt, and mTOR. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7797-7802.	7.1	747
4	Targeting the cancer kinome through polypharmacology. Nature Reviews Cancer, 2010, 10, 130-137.	28.4	618
5	Features of Selective Kinase Inhibitors. Chemistry and Biology, 2005, 12, 621-637.	6.0	582
6	A dual PI3 kinase/mTOR inhibitor reveals emergent efficacy in glioma. Cancer Cell, 2006, 9, 341-349.	16.8	575
7	Sensory Detection of Food Rapidly Modulates Arcuate Feeding Circuits. Cell, 2015, 160, 829-841.	28.9	489
8	Regulation of Body Temperature by the Nervous System. Neuron, 2018, 98, 31-48.	8.1	460
9	Targeted polypharmacology: discovery of dual inhibitors of tyrosine and phosphoinositide kinases. Nature Chemical Biology, 2008, 4, 691-699.	8.0	393
10	Basal Subtype and MAPK/ERK Kinase (MEK)-Phosphoinositide 3-Kinase Feedback Signaling Determine Susceptibility of Breast Cancer Cells to MEK Inhibition. Cancer Research, 2009, 69, 565-572.	0.9	340
11	Warm-Sensitive Neurons that Control Body Temperature. Cell, 2016, 167, 47-59.e15.	28.9	281
12	Molecular Profiling of Activated Neurons by Phosphorylated Ribosome Capture. Cell, 2012, 151, 1126-1137.	28.9	270
13	Genetic Identification of Vagal Sensory Neurons That Control Feeding. Cell, 2019, 179, 1129-1143.e23.	28.9	265
14	Identification of preoptic sleep neurons using retrograde labelling and gene profiling. Nature, 2017, 545, 477-481.	27.8	246
15	Hyperleptinemia Is Required for the Development of Leptin Resistance. PLoS ONE, 2010, 5, e11376.	2.5	244
16	Phosphospecific proteolysis for mapping sites of protein phosphorylation. Nature Biotechnology, 2003, 21, 1047-1054.	17.5	237
17	Chemical Genetics: Where Genetics and Pharmacology Meet. Cell, 2007, 128, 425-430.	28.9	228
18	Thirst neurons anticipate the homeostatic consequences of eating and drinking. Nature, 2016, 537, 680-684.	27.8	207

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19	A Dual Phosphoinositide-3-Kinase Î±/mTOR Inhibitor Cooperates with Blockade of Epidermal Growth Factor Receptor in <i>PTEN</i>-Mutant Glioma. Cancer Research, 2007, 67, 7960-7965.	0.9	199
20	Dynamics of Gut-Brain Communication Underlying Hunger. Neuron, 2017, 96, 461-475.e5.	8.1	193
21	Neural circuits underlying thirst and fluid homeostasis. Nature Reviews Neuroscience, 2017, 18, 459-469.	10.2	190
22	Maintenance of Hormone-sensitive Phosphoinositide Pools in the Plasma Membrane Requires Phosphatidylinositol 4-Kinase IIIÎ±. Molecular Biology of the Cell, 2008, 19, 711-721.	2.1	174
23	PI-103, a dual inhibitor of Class IA phosphatidylinositide 3-kinase and mTOR, has antileukemic activity in AML. Leukemia, 2008, 22, 1698-1706.	7.2	170
24	PIK3CA Cooperates with Other Phosphatidylinositol 3â€²-Kinase Pathway Mutations to Effect Oncogenic Transformation. Cancer Research, 2008, 68, 8127-8136.	0.9	159
25	To stabilize neutrophil polarity, PIP3 and Cdc42 augment RhoA activity at the back as well as signals at the front. Journal of Cell Biology, 2006, 174, 437-445.	5.2	155
26	EGFR Signals to mTOR Through PKC and Independently of Akt in Glioma. Science Signaling, 2009, 2, ra4.	3.6	153
27	Ablation of PI3K blocks BCR-ABL leukemogenesis in mice, and a dual PI3K/mTOR inhibitor prevents expansion of human BCR-ABL+ leukemia cells. Journal of Clinical Investigation, 2008, 118, 3038-3050.	8.2	148
28	Hunger neurons drive feeding through a sustained, positive reinforcement signal. ELife, 2016, 5, .	6.0	142
29	Isoform-specific phosphoinositide 3-kinase inhibitors from an arylmorpholine scaffold. Bioorganic and Medicinal Chemistry, 2004, 12, 4749-4759.	3.0	138
30	Isoform-selective phosphoinositide 3â€²-kinase inhibitors inhibit CXCR4 signaling and overcome stromal cellâ€"mediated drug resistance in chronic lymphocytic leukemia: a novel therapeutic approach. Blood, 2009, 113, 5549-5557.	1.4	135
31	Molecular Profiling of Neurons Based on Connectivity. Cell, 2014, 157, 1230-1242.	28.9	134
32	A chemical screen in diverse breast cancer cell lines reveals genetic enhancers and suppressors of sensitivity to PI3K isoform-selective inhibition. Biochemical Journal, 2008, 415, 97-110.	3.7	123
33	Phosphatidylinositol 4-Kinase IIIÎ² Regulates the Transport of Ceramide between the Endoplasmic Reticulum and Golgi. Journal of Biological Chemistry, 2006, 281, 36369-36377.	3.4	120
34	A gut-to-brain signal of fluid osmolarity controls thirst satiation. Nature, 2019, 568, 98-102.	27.8	98
35	Discovery of Drug-Resistant and Drug-Sensitizing Mutations in the Oncogenic PI3K Isoform p110Î±. Cancer Cell, 2008, 14, 180-192.	16.8	95
36	HIV-1 Nef Assembles a Src Family Kinase-ZAP-70/Syk-PI3K Cascade to Downregulate Cell-Surface MHC-I. Cell Host and Microbe, 2007, 1, 121-133.	11.0	90

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37	The Forebrain Thirst Circuit Drives Drinking through Negative Reinforcement. Neuron, 2017, 96, 1272-1281.e4.	8.1	89
38	Thirst. Current Biology, 2016, 26, R1260-R1265.	3.9	85
39	Sustained NPY signaling enables AgRP neurons to drive feeding. ELife, 2019, 8, .	6.0	85
40	A novel pseudoknot element is essential for the action of a yeast telomerase. Genes and Development, 2003, 17, 1779-1788.	5.9	79
41	Discovery of Dual Inhibitors of the Immune Cell PI3Ks p110Î´ and p110Î³: a Prototype for New Anti-inflammatory Drugs. Chemistry and Biology, 2010, 17, 123-134.	6.0	76
42	Obesity causes selective and long-lasting desensitization of AgRP neurons to dietary fat. ELife, 2020, 9, .	6.0	70
43	Genetic or pharmaceutical blockade of p110Î´ phosphoinositide 3-kinase enhances IgE production. Journal of Allergy and Clinical Immunology, 2008, 122, 811-819.e2.	2.9	67
44	A critical role for mTORC1 in erythropoiesis and anemia. ELife, 2014, 3, e01913.	6.0	67
45	Characterization of structurally distinct, isoform-selective phosphoinositide 3â€²-kinase inhibitors in combination with radiation in the treatment of glioblastoma. Molecular Cancer Therapeutics, 2008, 7, 841-850.	4.1	66
46	Targeting the gatekeeper residue in phosphoinositide 3-kinases. Bioorganic and Medicinal Chemistry, 2005, 13, 2825-2836.	3.0	64
47	Ablation of AgRP neurons impairs adaption to restricted feeding. Molecular Metabolism, 2014, 3, 694-704.	6.5	63
48	Soma-Targeted Imaging of Neural Circuits by Ribosome Tethering. Neuron, 2020, 107, 454-469.e6.	8.1	58
49	Making sense of the sensory regulation of hunger neurons. BioEssays, 2016, 38, 316-324.	2.5	54
50	Dopamine subsystems that track internal states. Nature, 2022, 608, 374-380.	27.8	54
51	Dual Inhibition of PI3KÎ± and mTOR as an Alternative Treatment for Kaposi's Sarcoma. Cancer Research, 2008, 68, 8361-8368.	0.9	52
52	A membrane capture assay for lipid kinase activity. Nature Protocols, 2007, 2, 2459-2466.	12.0	44
53	Effect of combined DNA repair inhibition and G2 checkpoint inhibition on cell cycle progression after DNA damage. Molecular Cancer Therapeutics, 2006, 5, 885-892.	4.1	34
54	Design of Drug-Resistant Alleles of Type-III Phosphatidylinositol 4-Kinases Using Mutagenesis and Molecular Modeling. Biochemistry, 2008, 47, 1599-1607.	2.5	33

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55	Re-examination of Dietary Amino Acid Sensing Reveals a GCN2-Independent Mechanism. Cell Reports, 2015, 13, 1081-1089.	6.4	32
56	Layers of signals that regulate appetite. Current Opinion in Neurobiology, 2020, 64, 79-88.	4.2	27
57	Small Molecule Inhibitors of the PI3-Kinase Family. Current Topics in Microbiology and Immunology, 2010, 347, 263-278.	1.1	26
58	Activity of the p110-Î± subunit of phosphatidylinositol-3-kinase is required for activation of epithelial sodium transport. American Journal of Physiology - Renal Physiology, 2008, 295, F843-F850.	2.7	22
59	Linking smell to metabolism and aging. Science, 2017, 358, 718-719.	12.6	22
60	A Remodelled Protease That Cleaves Phosphotyrosine Substrates. Journal of the American Chemical Society, 2007, 129, 11672-11673.	13.7	20
61	Downregulation of MYCN through PI3K Inhibition in Mouse Models of Pediatric Neural Cancer. Frontiers in Oncology, 2015, 5, 111.	2.8	20
62	For a PDK1 inhibitor, the substrate matters. Biochemical Journal, 2011, 433, e1-e2.	3.7	16
63	A Spotlight on Appetite. Neuron, 2018, 97, 739-741.	8.1	16
64	Rapid Sensing of Dietary Amino Acid Deficiency Does Not Require GCN2. Cell Reports, 2016, 16, 2051-2052.	6.4	4
65	PI-103, a Dual Inhibitor of Class I Phosphatidylinositide 3-Kinase and mTOR, Has Anti-Leukemic Activity in Acute Myeloid Leukemia.. Blood, 2007, 110, 876-876.	1.4	1
66	Knock-outs and inhibitors: one and the same?. Blood, 2006, 107, 420-421.	1.4	0