Randall J. Platt

List of Publications by Citations

29 papers	4,331 citations	16 h-index	33 g-index
33 ext. papers	5,478 ext. citations	23 avg, IF	5.64 L-index

#	Paper	IF	Citations
29	CRISPR-Cas9 knockin mice for genome editing and cancer modeling. *Cell*, **2014**, 159, 440-55	56.2	1089
28	Therapeutic genome editing: prospects and challenges. *Nature Medicine*, **2015**, 21, 121-31	50.5	809
27	Optical control of mammalian endogenous transcription and epigenetic states. *Nature*, **2013**, 500, 472-476	36.4	635
26	Genome-scale CRISPR-Cas9 knockout and transcriptional activation screening. *Nature Protocols*, **2017**, 12, 828-863	18.8	459
25	A Genome-wide CRISPR Screen in Primary Immune Cells to Dissect Regulatory Networks. *Cell*, **2015**, 162, 675-86	56.2	288
24	Efficient CRISPR-Cas9-mediated genome editing in Plasmodium falciparum. *Nature Methods*, **2014**, 11, 915-8	21.6	162
23	Optogenetic skeletal muscle-powered adaptive biological machines. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 3497-502	11.5	150
22	Microfluidic device for the formation of optically excitable, three-dimensional, compartmentalized motor units. *Science Advances*, **2016**, 2, e1501429	14.3	138
21	AAV-mediated direct in vivo CRISPR screen identifies functional suppressors in glioblastoma. *Nature Neuroscience*, **2017**, 20, 1329-1341	25.5	119
20	Chd8 Mutation Leads to Autistic-like Behaviors and Impaired Striatal Circuits. *Cell Reports*, **2017**, 19, 335-350	8.0	115
19	Multiplexed genome engineering by Cas12a and CRISPR arrays encoded on single transcripts. *Nature Methods*, **2019**, 16, 887-893	21.6	103
18	Transcriptional recording by CRISPR spacer acquisition from RNA. *Nature*, **2018**, 562, 380-385	50.4	70
17	Mapping human cell phenotypes to genotypes with single-cell genomics. *Science*, **2019**, 365, 1401-1405	33.3	43
16	Mapping a functional cancer genome atlas of tumor suppressors in mouse liver using AAV-CRISPR-mediated direct in vivo screening. *Science Advances*, **2018**, 4, eaao5508	14.3	37
15	Thyroid hormone receptor beta and NCOA4 regulate terminal erythrocyte differentiation. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 10107-10112	11.5	24
14	Stapling mimics noncovalent interactions of γ-carboxyglutamates in conantokins, peptidic antagonists of N-methyl-D-aspartic acid receptors. *Journal of Biological Chemistry*, **2012**, 287, 20727-36	5.4	19
13	Conantokins derived from the Asprella clade impart conRl-B, an N-methyl d-aspartate receptor antagonist with a unique selectivity profile for NR2B subunits. *Biochemistry*, **2012**, 51, 4685-92	3.2	13

List of Publications

12	Applications of CRISPR-Cas for synthetic biology and genetic recording. *Current Opinion in Systems Biology*, **2017**, 5, 9-15	3.2	12
11	From molecular phylogeny towards differentiating pharmacology for NMDA receptor subtypes. *Toxicon*, **2014**, 81, 67-79	2.8	9
10	Recording transcriptional histories using Record-seq. *Nature Protocols*, **2020**, 15, 513-539	18.8	8
9	Engineered bacteria to report gut function: technologies and implementation. *Current Opinion in Microbiology*, **2021**, 59, 24-33	7.9	6
8	Noninvasive assessment of gut function using transcriptional recording sentinel cells.. *Science*, **2022**, 376, eabm6038	33.3	5
7	Moving from in vitro to in vivo CRISPR screens **2021**, 2, 100008		4
6	Protocol: Genome-scale CRISPR-Cas9 Knockout and Transcriptional Activation Screening		2
5	Temporal controls over inter-areal cortical projection neuron fate diversity. *Nature*, **2021**, 599, 453-457	50.4	1
4	Voices of biotech research. *Nature Biotechnology*, **2021**, 39, 281-286	44.5	1
3	Regulation of purine metabolism connects KCTD13 to a metabolic disorder with autistic features. *IScience*, **2021**, 24, 101935	6.1	1
2	Multiplexed Genome Engineering with Cas12a. *Methods in Molecular Biology*, **2021**, 2312, 171-192	1.4	0
1	miR-137 and miR-122, two outer subventricular zone non-coding RNAs, regulate basal progenitor expansion and neuronal differentiation.. *Cell Reports*, **2022**, 38, 110381	10.6	0