Luke W Koblan

List of Publications by Citations

17 papers	3,255 citations	13 h-index	18 g-index
18 ext. papers	5,362 ext. citations	36.3 avg, IF	6.05 L-index

#	Paper	IF	Citations
17	Search-and-replace genome editing without double-strand breaks or donor DNA. *Nature*, **2019**, 576, 149-157	50.4	1318
16	Genome editing with CRISPR-Cas nucleases, base editors, transposases and prime editors. *Nature Biotechnology*, **2020**, 38, 824-844	44.5	466
15	Improved base excision repair inhibition and bacteriophage Mu Gam protein yields C:G-to-T:A base editors with higher efficiency and product purity. *Science Advances*, **2017**, 3, eaao4774	14.3	380
14	Improving cytidine and adenine base editors by expression optimization and ancestral reconstruction. *Nature Biotechnology*, **2018**, 36, 843-846	44.5	348
13	Phage-assisted evolution of an adenine base editor with improved Cas domain compatibility and activity. *Nature Biotechnology*, **2020**, 38, 883-891	44.5	171
12	Cytosine and adenine base editing of the brain, liver, retina, heart and skeletal muscle of mice via adeno-associated viruses. *Nature Biomedical Engineering*, **2020**, 4, 97-110	19	134
11	Continuous evolution of base editors with expanded target compatibility and improved activity. *Nature Biotechnology*, **2019**, 37, 1070-1079	44.5	111
10	In vivo base editing rescues Hutchinson-Gilford progeria syndrome in mice. *Nature*, **2021**, 589, 608-614	50.4	92
9	Adenine base editing in an adult mouse model of tyrosinaemia. *Nature Biomedical Engineering*, **2020**, 4, 125-130	19	86
8	Massively parallel assessment of human variants with base editor screens. *Cell*, **2021**, 184, 1064-1080.e20	66.2	49
7	Efficient C□-to-G□ base editors developed using CRISPRi screens, target-library analysis, and machine learning. *Nature Biotechnology*, **2021**, 39, 1414-1425	44.5	32
6	Base editing of haematopoietic stem cells rescues sickle cell disease in mice. *Nature*, **2021**, 595, 295-302	50.4	31
5	Programmable deletion, replacement, integration and inversion of large DNA sequences with twin prime editing. *Nature Biotechnology*, **2021**,	44.5	18
4	High-resolution specificity profiling and off-target prediction for site-specific DNA recombinases. *Nature Communications*, **2019**, 10, 1937	17.4	10
3	Massively parallel assessment of human variants with base editor screens		5
2	Mechanisms of angiogenic incompetence in Hutchinson-Gilford progeria via downregulation of endothelial NOS. *Aging Cell*, **2021**, 20, e13388	9.9	2
1	Programmable large DNA deletion, replacement, integration, and inversion with twin prime editing and site-specific recombinases		1