

# Neville E Sanjana

## List of Publications by Citations

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**Version:** 2024-04-20

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

12,579

citations

30

h-index

78

g-index

78

ext. papers

16,335

ext. citations

21.4

avg, IF

6.7

L-index

#	Paper	IF	Citations
66	Genome-scale CRISPR-Cas9 knockout screening in human cells. <i>Science</i> , <b>2014</b> , 343, 84-87	33.3	3080
65	Improved vectors and genome-wide libraries for CRISPR screening. <i>Nature Methods</i> , <b>2014</b> , 11, 783-784	21.6	2552
64	High-throughput functional genomics using CRISPR-Cas9. <i>Nature Reviews Genetics</i> , <b>2015</b> , 16, 299-311	30.1	748
63	Perturbation of m6A writers reveals two distinct classes of mRNA methylation at internal and 5V sites. <i>Cell Reports</i> , <b>2014</b> , 8, 284-96	10.6	700
62	Genome-wide CRISPR screen in a mouse model of tumor growth and metastasis. <i>Cell</i> , <b>2015</b> , 160, 1246-60	56.2	544
61	BCL11A enhancer dissection by Cas9-mediated in situ saturating mutagenesis. <i>Nature</i> , <b>2015</b> , 527, 192-7	50.4	528
60	A transcription activator-like effector toolbox for genome engineering. <i>Nature Protocols</i> , <b>2012</b> , 7, 171-92	28.8	480
59	Identification of essential genes for cancer immunotherapy. <i>Nature</i> , <b>2017</b> , 548, 537-542	50.4	460
58	Genome-scale CRISPR-Cas9 knockout and transcriptional activation screening. <i>Nature Protocols</i> , <b>2017</b> , 12, 828-863	18.8	459
57	A Genome-wide CRISPR Screen in Primary Immune Cells to Dissect Regulatory Networks. <i>Cell</i> , <b>2015</b> , 162, 675-86	56.2	288
56	Hypoxia as a therapy for mitochondrial disease. <i>Science</i> , <b>2016</b> , 352, 54-61	33.3	251
55	Genome-scale activation screen identifies a lncRNA locus regulating a gene neighbourhood. <i>Nature</i> , <b>2017</b> , 548, 343-346	50.4	243
54	Identification of Required Host Factors for SARS-CoV-2 Infection in Human Cells. <i>Cell</i> , <b>2021</b> , 184, 92-105	56.6	240
53	High-resolution interrogation of functional elements in the noncoding genome. <i>Science</i> , <b>2016</b> , 353, 1545-1549	33.3	197
52	A fast flexible ink-jet printing method for patterning dissociated neurons in culture. <i>Journal of Neuroscience Methods</i> , <b>2004</b> , 136, 151-63	3	189
51	Mice with Shank3 Mutations Associated with ASD and Schizophrenia Display Both Shared and Distinct Defects. <i>Neuron</i> , <b>2016</b> , 89, 147-62	13.9	180
50	Multiplexed detection of proteins, transcriptomes, clonotypes and CRISPR perturbations in single cells. <i>Nature Methods</i> , <b>2019</b> , 16, 409-412	21.6	175

49	Transcription control by the ENL YEATS domain in acute leukaemia. <i>Nature</i> , <b>2017</b> , 543, 270-274	50.4	159
48	GENOME ENGINEERING. The Genome Project-Write. <i>Science</i> , <b>2016</b> , 353, 126-7	33.3	138
47	Rapid neurogenesis through transcriptional activation in human stem cells. <i>Molecular Systems Biology</i> , <b>2014</b> , 10, 760	12.2	130
46	Massively parallel Cas13 screens reveal principles for guide RNA design. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 722-727	44.5	92
45	The Spike D614G mutation increases SARS-CoV-2 infection of multiple human cell types. <i>ELife</i> , <b>2021</b> , 10,	8.9	86
44	Genome-Scale Networks Link Neurodegenerative Disease Genes to $\beta$ synuclein through Specific Molecular Pathways. <i>Cell Systems</i> , <b>2017</b> , 4, 157-170.e14	10.6	76
43	GFAP Mutations in Astrocytes Impair Oligodendrocyte Progenitor Proliferation and Myelination in an hiPSC Model of Alexander Disease. <i>Cell Stem Cell</i> , <b>2018</b> , 23, 239-251.e6	18	65
42	The Spike D614G mutation increases SARS-CoV-2 infection of multiple human cell types <b>2020</b> ,		62
41	Effects of 3D culturing conditions on the transcriptomic profile of stem-cell-derived neurons. <i>Nature Biomedical Engineering</i> , <b>2018</b> , 2, 540-554	19	52
40	Integrated design, execution, and analysis of arrayed and pooled CRISPR genome-editing experiments. <i>Nature Protocols</i> , <b>2018</b> , 13, 946-986	18.8	42
39	GUIDES: sgRNA design for loss-of-function screens. <i>Nature Methods</i> , <b>2017</b> , 14, 831-832	21.6	42
38	High-Throughput Approaches to Pinpoint Function within the Noncoding Genome. <i>Molecular Cell</i> , <b>2017</b> , 68, 44-59	17.6	37
37	Genome-scale CRISPR pooled screens. <i>Analytical Biochemistry</i> , <b>2017</b> , 532, 95-99	3.1	35
36	Activity-dependent A-to-I RNA editing in rat cortical neurons. <i>Genetics</i> , <b>2012</b> , 192, 281-7	4	30
35	Identification of Cancer Drivers at CTCF Insulators in 1,962 Whole Genomes. <i>Cell Systems</i> , <b>2019</b> , 8, 446-455.e8	15.68	29
34	High-Throughput Screens of PAM-Flexible Cas9 Variants for Gene Knockout and Transcriptional Modulation. <i>Cell Reports</i> , <b>2020</b> , 30, 2859-2868.e5	10.6	27
33	Applying genome-wide CRISPR-Cas9 screens for therapeutic discovery in facioscapulohumeral muscular dystrophy. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	24
32	CRISPR Screens to Discover Functional Noncoding Elements. <i>Trends in Genetics</i> , <b>2016</b> , 32, 526-529	8.5	24

31	Overexpression of NEUROG2 and NEUROG1 in human embryonic stem cells produces a network of excitatory and inhibitory neurons. <i>FASEB Journal</i> , <b>2019</b> , 33, 5287-5299	0.9	12
30	Two Angelman families with unusually advanced neurodevelopment carry a start codon variant in the most highly expressed UBE3A isoform. <i>American Journal of Medical Genetics, Part A</i> , <b>2018</b> , 176, 1641-1647	2.5	12
29	Integrative approach identifies SLC6A20 and CXCR6 as putative causal genes for the COVID-19 GWAS signal in the 3p21.31 locus. <i>Genome Biology</i> , <b>2021</b> , 22, 242	18.3	11
28	CRISPR in cancer biology and therapy.. <i>Nature Reviews Cancer</i> , <b>2022</b> ,	31.3	11
27	Target Discovery for Precision Medicine Using High-Throughput Genome Engineering. <i>Advances in Experimental Medicine and Biology</i> , <b>2017</b> , 1016, 123-145	3.6	5
26	Automated design of CRISPR prime editors for thousands of human pathogenic variants		5
25	Discovery of target genes and pathways of blood trait loci using pooled CRISPR screens and single cell RNA sequencing		5
24	Generation of a knock-in MAP2-tdTomato reporter human embryonic stem cell line with inducible expression of NEUROG2/1 (NYGce001-A). <i>Stem Cell Research</i> , <b>2019</b> , 41, 101643	1.6	4
23	Scalable pooled CRISPR screens with single-cell chromatin accessibility profiling		4
22	Profiling the genetic determinants of chromatin accessibility with scalable single-cell CRISPR screens. <i>Nature Biotechnology</i> , <b>2021</b> , 39, 1270-1277	44.5	4
21	Crispr-Cas9 Saturating Mutagenesis Reveals an Achilles Heel in the BCL11A Erythroid Enhancer for Fetal Hemoglobin Induction (by Genome Editing). <i>Blood</i> , <b>2015</b> , 126, 638-638	2.2	3
20	Principles for rational Cas13d guide design		3
19	Transcriptome-wide Cas13 guide RNA design for model organisms and viral RNA pathogens		3
18	Integrative approach identifies and as putative causal genes for the COVID-19 GWAS signal in the 3p21.31 locus <b>2021</b> ,		3
17	Author response: The Spike D614G mutation increases SARS-CoV-2 infection of multiple human cell types <b>2021</b> ,		3
16	Chemically modified guide RNAs enhance CRISPR-Cas13 knockdown in human cells. <i>Cell Chemical Biology</i> , <b>2021</b> ,	8.2	3
15	Transcriptome-wide Cas13 guide RNA design for model organisms and viral RNA pathogens. <i>Cell Genomics</i> , <b>2021</b> , 1, 100001		3
14	A genome-scale screen for synthetic drivers of T cell proliferation.. <i>Nature</i> , <b>2022</b> , 603, 728-735	50.4	3

13	High-throughput screens of PAM-flexible Cas9 variants for gene knock-out and transcriptional modulation		2
12	High-resolution interrogation of functional elements in the noncoding genome		2
11	Genome-Scale Crispr-Cas9 Knockout Studies Reveal Multifactorial and Functionally Overlapping Mechanisms of Myeloma Cell Resistance to Proteasome Inhibition. <i>Blood</i> , <b>2014</b> , 124, 273-273	2.2	2
10	Protocol: Genome-scale CRISPR-Cas9 Knockout and Transcriptional Activation Screening		2
9	Immunomagnetic cell sorting. <i>Nature Biomedical Engineering</i> , <b>2019</b> , 3, 759-760	19	1
8	Automated design of CRISPR prime editors for 56,000 human pathogenic variants. <i>iScience</i> , <b>2021</b> , 103380.1		1
7	Expanding the CITE-seq tool-kit: Detection of proteins, transcriptomes, clonotypes and CRISPR perturbations with multiplexing, in a single assay		1
6	Tracking cell lineages to improve research reproducibility. <i>Nature Biotechnology</i> , <b>2021</b> , 39, 666-670	44.5	1
5	The BTB transcription factors ZBTB11 and ZFP131 maintain pluripotency by repressing pro-differentiation genes.. <i>Cell Reports</i> , <b>2022</b> , 38, 110524	10.6	0
4	The wanderlust of newborn neocortical interneurons. <i>Journal of Neuroscience</i> , <b>2009</b> , 29, 7114-5	6.6	
3	Development of Novel CAR Therapies for Diffuse Large B-Cell Lymphoma Using Genome-Wide Overexpression Screens. <i>Blood</i> , <b>2021</b> , 138, 1726-1726	2.2	
2	Multiscale Genome Engineering: Genome-Wide Screens and Targeted Approaches. <i>Research and Perspectives in Neurosciences</i> , <b>2017</b> , 83-86		
1	Voices of the new generation: open science is good for science (and for you). <i>Nature Reviews Molecular Cell Biology</i> , <b>2021</b> , 22, 709	48.7	