

# CRISPR Interference-Based Platform for Multimodal Genetically Targeted Neurons

Neuron

104, 239-255.e12

DOI: [10.1016/j.neuron.2019.07.014](https://doi.org/10.1016/j.neuron.2019.07.014)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Compromised function of the ESCRT pathway promotes endolysosomal escape of tau seeds and propagation of tau aggregation. <i>Journal of Biological Chemistry</i> , 2019, 294, 18952-18966.	1.6	103
2	A Comprehensive Resource for Induced Pluripotent Stem Cells from Patients with Primary Tauopathies. <i>Stem Cell Reports</i> , 2019, 13, 939-955.	2.3	62
3	Screen time: studying gene function in iPSCs. <i>Nature Reviews Neuroscience</i> , 2019, 20, 573-573.	4.9	1
4	Convergence in neuropsychiatric research. <i>Nature Methods</i> , 2019, 16, 961-964.	9.0	0
5	Application of CRISPR genetic screens to investigate neurological diseases. <i>Molecular Neurodegeneration</i> , 2019, 14, 41.	4.4	25
6	Single-Cell Transcriptomics of Parkinson's Disease Human In Vitro Models Reveals Dopamine Neuron-Specific Stress Responses. <i>Cell Reports</i> , 2020, 33, 108263.	2.9	79
7	A high-throughput CRISPR interference screen for dissecting functional regulators of GPCR/cAMP signaling. <i>PLoS Genetics</i> , 2020, 16, e1009103.	1.5	15
8	Loss-of-function Mutations of CUL3, a High Confidence Gene for Psychiatric Disorders, Lead to Aberrant Neurodevelopment In Human Induced Pluripotent Stem Cells. <i>Neuroscience</i> , 2020, 448, 234-254.	1.1	6
9	Autophagy Assays for Biological Discovery and Therapeutic Development. <i>Trends in Biochemical Sciences</i> , 2020, 45, 1080-1093.	3.7	100
10	New gene discoveries highlight functional convergence in autism and related neurodevelopmental disorders. <i>Current Opinion in Genetics and Development</i> , 2020, 65, 195-206.	1.5	27
11	Applying gene editing technology to elucidate the functional consequence of genetic and epigenetic variation in Alzheimer's disease. <i>Brain Pathology</i> , 2020, 30, 992-1004.	2.1	8
12	Massively parallel techniques for cataloguing the regulome of the human brain. <i>Nature Neuroscience</i> , 2020, 23, 1509-1521.	7.1	39
13	Master Regulators and Cofactors of Human Neuronal Cell Fate Specification Identified by CRISPR Gene Activation Screens. <i>Cell Reports</i> , 2020, 33, 108460.	2.9	38
14	Modelling frontotemporal dementia using patient-derived induced pluripotent stem cells. <i>Molecular and Cellular Neurosciences</i> , 2020, 109, 103553.	1.0	19
15	High-throughput single-cell functional elucidation of neurodevelopmental disease-associated genes reveals convergent mechanisms altering neuronal differentiation. <i>Genome Research</i> , 2020, 30, 1317-1331.	2.4	50
16	FMR1 loss in a human stem cell model reveals early changes to intrinsic membrane excitability. <i>Developmental Biology</i> , 2020, 468, 93-100.	0.9	6
17	Resolving Neurodevelopmental and Vision Disorders Using Organoid Single-Cell Multi-omics. <i>Neuron</i> , 2020, 107, 1000-1013.	3.8	24
18	Methodologies and Challenges for CRISPR/Cas9 Mediated Genome Editing of the Mammalian Brain. <i>Frontiers in Genome Editing</i> , 2020, 2, 602970.	2.7	17

#	ARTICLE	IF	CITATIONS
19	Disease modeling and stem cell immunoengineering in regenerative medicine using CRISPR/Cas9 systems. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 3649-3665.	1.9	7
20	CRISPR Screening Explores New Dimensions. <i>Genetic Engineering and Biotechnology News</i> , 2020, 40, 26-28, 30.	0.1	0
21	CRISPR-Cas Tools and Their Application in Genetic Engineering of Human Stem Cells and Organoids. <i>Cell Stem Cell</i> , 2020, 27, 705-731.	5.2	95
22	Strategies to Promote Long-Distance Optic Nerve Regeneration. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 119.	1.8	33
23	Synaptic Vesicle Precursors and Lysosomes Are Transported by Different Mechanisms in the Axon of Mammalian Neurons. <i>Cell Reports</i> , 2020, 31, 107775.	2.9	44
24	Divergence, Convergence, and Therapeutic Implications: A Cell Biology Perspective of C9ORF72-ALS/FTD. <i>Molecular Neurodegeneration</i> , 2020, 15, 34.	4.4	32
25	Modeling the complex genetic architectures of brain disease. <i>Nature Genetics</i> , 2020, 52, 363-369.	9.4	35
26	Multiparametric Assays for Accelerating Early Drug Discovery. <i>Trends in Pharmacological Sciences</i> , 2020, 41, 318-335.	4.0	14
27	LRP1 is a master regulator of tau uptake and spread. <i>Nature</i> , 2020, 580, 381-385.	13.7	326
28	Mitochondrial stress is relayed to the cytosol by an OMA1-DELE1-HRI pathway. <i>Nature</i> , 2020, 579, 427-432.	13.7	343
29	CRISPR-based functional genomics for neurological disease. <i>Nature Reviews Neurology</i> , 2020, 16, 465-480.	4.9	89
30	CRISPR-based screens uncover determinants of immunotherapy response in multiple myeloma. <i>Blood Advances</i> , 2020, 4, 2899-2911.	2.5	36
31	Exploiting CRISPR Cas9 in Three-Dimensional Stem Cell Cultures to Model Disease. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 692.	2.0	21
32	Integrating CRISPR Engineering and hiPSC-Derived 2D Disease Modeling Systems. <i>Journal of Neuroscience</i> , 2020, 40, 1176-1185.	1.7	13
33	Titrating gene expression using libraries of systematically attenuated CRISPR guide RNAs. <i>Nature Biotechnology</i> , 2020, 38, 355-364.	9.4	108
34	If there is not one cure for schizophrenia, there may be many. <i>NPJ Schizophrenia</i> , 2020, 6, 11.	2.0	0
35	Modeling Psychiatric Disorder Biology with Stem Cells. <i>Current Psychiatry Reports</i> , 2020, 22, 24.	2.1	25
36	Massively Parallel Reporter Assays: Defining Functional Psychiatric Genetic Variants Across Biological Contexts. <i>Biological Psychiatry</i> , 2021, 89, 76-89.	0.7	34

#	ARTICLE	IF	CITATIONS
37	A Presynaptic Perspective on Transport and Assembly Mechanisms for Synapse Formation. <i>Neuron</i> , 2021, 109, 27-41.	3.8	43
38	Transformative Network Modeling of Multi-omics Data Reveals Detailed Circuits, Key Regulators, and Potential Therapeutics for Alzheimer's Disease. <i>Neuron</i> , 2021, 109, 257-272.e14.	3.8	108
39	Combinatorial genetics methods for discovering high-order regulatory combinations and engineering genetic drivers for neural differentiation. <i>Neural Regeneration Research</i> , 2021, 16, 2403.	1.6	0
40	Human in vitro disease models to aid pathway and target discovery for neurological disorders. , 2021, , 81-106.		0
42	CRISPR-Cas9 based genome editing for defective gene correction in humans and other mammals. <i>Progress in Molecular Biology and Translational Science</i> , 2021, 181, 185-229.	0.9	4
43	Functional genomics of psychiatric disease risk using genome engineering. , 2021, , 711-734.		0
45	Induced pluripotent stem cells as tools to investigate the neurobiology of bipolar disorder and advance novel therapeutic discovery. , 2021, , 155-173.		0
46	Molecular characterization of selectively vulnerable neurons in Alzheimer's disease. <i>Nature Neuroscience</i> , 2021, 24, 276-287.	7.1	238
47	CRISPR/Cas9 technologies to manipulate human induced pluripotent stem cells. , 2021, , 249-287.		0
48	Arrayed CRISPR reveals genetic regulators of tau aggregation, autophagy and mitochondria in Alzheimer's disease model. <i>Scientific Reports</i> , 2021, 11, 2879.	1.6	14
49	Mind the translational gap: using iPSC cell models to bridge from genetic discoveries to perturbed pathways and therapeutic targets. <i>Molecular Autism</i> , 2021, 12, 10.	2.6	15
50	<i>Toxoplasma gondii</i> infection and its implications within the central nervous system. <i>Nature Reviews Microbiology</i> , 2021, 19, 467-480.	13.6	101
51	Genome-wide CRISPR/Cas9-knockout in human induced Pluripotent Stem Cell (iPSC)-derived macrophages. <i>Scientific Reports</i> , 2021, 11, 4245.	1.6	25
53	Cellular Models and High-Throughput Screening for Genetic Causality of Intellectual Disability. <i>Trends in Molecular Medicine</i> , 2021, 27, 220-230.	3.5	8
54	Overlapping roles of JIP3 and JIP4 in promoting axonal transport of lysosomes in human iPSC-derived neurons. <i>Molecular Biology of the Cell</i> , 2021, 32, 1094-1103.	0.9	33
56	Neuronal enhancers are hotspots for DNA single-strand break repair. <i>Nature</i> , 2021, 593, 440-444.	13.7	126
57	Genome Editing in iPSC-Based Neural Systems: From Disease Models to Future Therapeutic Strategies. <i>Frontiers in Genome Editing</i> , 2021, 3, 630600.	2.7	22
59	Stem Cell Neurodevelopmental Solutions for Restorative Treatments of the Human Trunk and Spine. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 667590.	1.8	13

#	ARTICLE	IF	CITATIONS
61	Genome-wide programmable transcriptional memory by CRISPR-based epigenome editing. <i>Cell</i> , 2021, 184, 2503-2519.e17.	13.5	312
62	The frontier of live tissue imaging across space and time. <i>Cell Stem Cell</i> , 2021, 28, 603-622.	5.2	24
63	CRISPR Screens in Toxicology Research: An Overview. <i>Current Protocols</i> , 2021, 1, e136.	1.3	5
64	Repetitive mild head trauma induces activity mediated lifelong brain deficits in a novel <i>Drosophila</i> model. <i>Scientific Reports</i> , 2021, 11, 9738.	1.6	14
65	Genome-wide CRISPRi/a screens in human neurons link lysosomal failure to ferroptosis. <i>Nature Neuroscience</i> , 2021, 24, 1020-1034.	7.1	170
67	Using the dCas9-KRAB system to repress gene expression in hiPSC-derived NGN2 neurons. <i>STAR Protocols</i> , 2021, 2, 100580.	0.5	4
69	dCas9 techniques for transcriptional repression in mammalian cells: Progress, applications and challenges. <i>BioEssays</i> , 2021, 43, 2100086.	1.2	3
70	Phenotyping Neurodegeneration in Human iPSCs. <i>Annual Review of Biomedical Data Science</i> , 2021, 4, 83-100.	2.8	3
71	Transcriptional-regulatory convergence across functional MDD risk variants identified by massively parallel reporter assays. <i>Translational Psychiatry</i> , 2021, 11, 403.	2.4	11
72	CRISPR/Cas-Based Epigenome Editing: Advances, Applications, and Clinical Utility. <i>Trends in Biotechnology</i> , 2021, 39, 678-691.	4.9	47
73	High-resolution characterization of gene function using single-cell CRISPR tiling screen. <i>Nature Communications</i> , 2021, 12, 4063.	5.8	23
75	Applying stem cells and CRISPR engineering to uncover the etiology of schizophrenia. <i>Current Opinion in Neurobiology</i> , 2021, 69, 193-201.	2.0	13
76	Transcription Factor-Based Strategies to Generate Neural Cell Types from Human Pluripotent Stem Cells. <i>Cellular Reprogramming</i> , 2021, 23, 206-220.	0.5	7
79	Deficiency of the Lysosomal Protein CLN5 Alters Lysosomal Function and Movement. <i>Biomolecules</i> , 2021, 11, 1412.	1.8	13
80	CRISPR-Cas Gene Perturbation and Editing in Human Induced Pluripotent Stem Cells. <i>CRISPR Journal</i> , 2021, 4, 634-655.	1.4	5
81	Improved modeling of human AD with an automated culturing platform for iPSC neurons, astrocytes and microglia. <i>Nature Communications</i> , 2021, 12, 5220.	5.8	38
82	Deciphering pathogenicity of variants of uncertain significance with CRISPR-edited iPSCs. <i>Trends in Genetics</i> , 2021, 37, 1109-1123.	2.9	14
83	A new era in functional genomics screens. <i>Nature Reviews Genetics</i> , 2022, 23, 89-103.	7.7	104

#	ARTICLE	IF	CITATIONS
85	Nuclear dynamics and stress responses in Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2021, 16, 65.	4.4	11
86	Application of CHyMErA Cas9-Cas12a combinatorial genome-editing platform for genetic interaction mapping and gene fragment deletion screening. <i>Nature Protocols</i> , 2021, 16, 4722-4765.	5.5	8
87	Induced Pluripotent Stem Cells in Psychiatry: An Overview and Critical Perspective. <i>Biological Psychiatry</i> , 2021, 90, 362-372.	0.7	23
88	Emerging strategies for the genetic dissection of gene functions, cell types, and neural circuits in the mammalian brain. <i>Molecular Psychiatry</i> , 2022, 27, 422-435.	4.1	2
89	Screening Platforms for Genetic Epilepsies in Zebrafish, iPSC-Derived Neurons, and Organoids. <i>Neurotherapeutics</i> , 2021, 18, 1478-1489.	2.1	10
90	Synaptic Hyaluronan Synthesis and CD44-Mediated Signaling Coordinate Neural Circuit Development. <i>Cells</i> , 2021, 10, 2574.	1.8	6
91	A human iPSC-derived inducible neuronal model of Niemann-Pick disease, type C1. <i>BMC Biology</i> , 2021, 19, 218.	1.7	7
92	Moving from in vitro to in vivo CRISPR screens. <i>Gene and Genome Editing</i> , 2021, 2, 100008.	1.3	25
93	Image-based pooled whole-genome CRISPRi screening for subcellular phenotypes. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	48
94	De Novo VPS4A Mutations Cause Multisystem Disease with Abnormal Neurodevelopment. <i>American Journal of Human Genetics</i> , 2020, 107, 1129-1148.	2.6	38
102	Truncated stathmin-2 is a marker of TDP-43 pathology in frontotemporal dementia. <i>Journal of Clinical Investigation</i> , 2020, 130, 6080-6092.	3.9	117
103	CRISPR/Cas: a potential gene-editing tool in the nervous system. <i>Cell Regeneration</i> , 2020, 9, 12.	1.1	8
104	Generation and validation of versatile inducible CRISPRi embryonic stem cell and mouse model. <i>PLoS Biology</i> , 2020, 18, e3000749.	2.6	12
105	Optimized culture of retinal ganglion cells and amacrine cells from adult mice. <i>PLoS ONE</i> , 2020, 15, e0242426.	1.1	7
106	Genetically Engineering the Nervous System with CRISPR-Cas. <i>ENeuro</i> , 2020, 7, ENEURO.0419-19.2020.	0.9	12
107	Surfaceome CRISPR screen identifies OLFML3 as a rhinovirus-inducible IFN antagonist. <i>Genome Biology</i> , 2021, 22, 297.	3.8	7
108	Dual inhibition of TMPRSS2 and Cathepsin B prevents SARS-CoV-2 infection in iPS cells. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 26, 1107-1114.	2.3	35
109	A functional genetic toolbox for human tissue-derived organoids. <i>ELife</i> , 2021, 10, .	2.8	33

#	ARTICLE	IF	CITATIONS
110	Unraveling Human Brain Development and Evolution Using Organoid Models. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 737429.	1.8	9
111	Mechanistic insights into the pathogenesis of microtubule-targeting agent-induced peripheral neuropathy from pharmacogenetic and functional studies. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2022, 130, 60-74.	1.2	14
116	Human iPSC-Derived Neurons as A Platform for Deciphering the Mechanisms behind Brain Aging. <i>Biomedicines</i> , 2021, 9, 1635.	1.4	5
120	Developing nociceptor-selective treatments for acute and chronic pain. <i>Science Translational Medicine</i> , 2021, 13, eabj9837.	5.8	22
122	Making neurons, made easy: The use of Neurogenin-2 in neuronal differentiation. <i>Stem Cell Reports</i> , 2022, 17, 14-34.	2.3	35
123	Human stem cell models of neurodegeneration: From basic science of amyotrophic lateral sclerosis to clinical translation. <i>Cell Stem Cell</i> , 2022, 29, 11-35.	5.2	39
124	Editing the Epigenome in Neurodegenerative Diseases. <i>Neurochemical Journal</i> , 2021, 15, 359-366.	0.2	0
125	NudC guides client transfer between the Hsp40/70 and Hsp90 chaperone systems. <i>Molecular Cell</i> , 2022, 82, 555-569.e7.	4.5	20
126	BRD2 inhibition blocks SARS-CoV-2 infection by reducing transcription of the host cell receptor ACE2. <i>Nature Cell Biology</i> , 2022, 24, 24-34.	4.6	47
127	Expression of Lineage Transcription Factors Identifies Differences in Transition States of Induced Human Oligodendrocyte Differentiation. <i>Cells</i> , 2022, 11, 241.	1.8	5
129	Reaching into the toolbox: Stem cell models to study neuropsychiatric disorders. <i>Stem Cell Reports</i> , 2022, 17, 187-210.	2.3	13
130	Orientin, a Bio-Flavonoid from <i>Trigonella hamosa</i> L., Regulates COX-2/PGE-2 in A549 Cell Lines via miR-26b and miR-146a. <i>Pharmaceuticals</i> , 2022, 15, 154.	1.7	15
131	Functional characterisation of the amyotrophic lateral sclerosis risk locus GPX3/TNIP1. <i>Genome Medicine</i> , 2022, 14, 7.	3.6	12
133	Harnessing the Power of Stem Cell Models to Study Shared Genetic Variants in Congenital Heart Diseases and Neurodevelopmental Disorders. <i>Cells</i> , 2022, 11, 460.	1.8	0
135	High-Content Screening in Cell Biology. , 2022, , .		0
136	CRISPR Guide RNA Library Screens in Human Induced Pluripotent Stem Cells. <i>Methods in Molecular Biology</i> , 2022, , 1.	0.4	1
137	TDP-43 loss and ALS-risk SNPs drive mis-splicing and depletion of UNC13A. <i>Nature</i> , 2022, 603, 131-137.	13.7	188
142	Rabphilin3A reduces integrin-dependent growth cone signaling to restrict axon regeneration after trauma. <i>Experimental Neurology</i> , 2022, 353, 114070.	2.0	5

#	ARTICLE	IF	CITATIONS
143	Genome-wide CRISPR/Cas9 screen identifies host factors important for porcine reproductive and respiratory syndrome virus replication. <i>Virus Research</i> , 2022, 314, 198738.	1.1	1
144	Genomics, convergent neuroscience and progress in understanding autism spectrum disorder. <i>Nature Reviews Neuroscience</i> , 2022, 23, 323-341.	4.9	81
146	Using Stem Cell Models to Explore the Genetics Underlying Psychiatric Disorders: Linking Risk Variants, Genes, and Biology in Brain Disease. <i>American Journal of Psychiatry</i> , 2022, 179, 322-328.	4.0	7
147	Modifier pathways in polyglutamine (PolyQ) diseases: from genetic screens to drug targets. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, 274.	2.4	4
148	A CRISPR view on autophagy. <i>Trends in Cell Biology</i> , 2022, , .	3.6	2
149	Evaluation of advances in cortical development using model systems. <i>Developmental Neurobiology</i> , 2022, 82, 408-427.	1.5	1
151	dCas9-mediated dysregulation of gene expression in human induced pluripotent stem cells during primitive streak differentiation. <i>Metabolic Engineering</i> , 2022, 73, 70-81.	3.6	1
152	Multiparameter phenotypic screening for endogenous TFEB and TFE3 translocation identifies novel chemical series modulating lysosome function. <i>Autophagy</i> , 2023, 19, 692-705.	4.3	6
153	Emerging Therapies and Novel Targets for TDP-43 Proteinopathy in ALS/FTD. <i>Neurotherapeutics</i> , 2022, 19, 1061-1084.	2.1	17
155	CRISPR-surfaceome: An online tool for designing highly efficient sgRNAs targeting cell surface proteins. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 3833-3838.	1.9	0
156	Association of a common genetic variant with Parkinson's disease is mediated by microglia. <i>Science Translational Medicine</i> , 2022, 14, .	5.8	40
157	High throughput CRISPRi and CRISPRa technologies in 3D genome regulation for neuropsychiatric diseases. <i>Human Molecular Genetics</i> , 0, , .	1.4	1
158	AP-4 regulates neuronal lysosome composition, function, and transport via regulating export of critical lysosome receptor proteins at the trans-Golgi network. <i>Molecular Biology of the Cell</i> , 2022, 33, .	0.9	9
160	Organ-on-a-Chip Models of the Blood-Brain Barrier: Recent Advances and Future Prospects. <i>Small</i> , 2022, 18, .	5.2	14
161	Motor neuron-derived induced pluripotent stem cells as a drug screening platform for amyotrophic lateral sclerosis. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	1.8	1
162	Systematic exploration of dynamic splicing networks reveals conserved multistage regulators of neurogenesis. <i>Molecular Cell</i> , 2022, 82, 2982-2999.e14.	4.5	10
163	A CRISPRi/a platform in human iPSC-derived microglia uncovers regulators of disease states. <i>Nature Neuroscience</i> , 2022, 25, 1149-1162.	7.1	79
165	Allosteric HSP70 inhibitors perturb mitochondrial proteostasis and overcome proteasome inhibitor resistance in multiple myeloma. <i>Cell Chemical Biology</i> , 2022, 29, 1288-1302.e7.	2.5	10



#	ARTICLE	IF	CITATIONS
166	Functional regulatory variants implicate distinct transcriptional networks in dementia. <i>Science</i> , 2022, 377, .	6.0	49
167	GNMB confers risk for Parkinson's disease through interaction with $\alpha$ -synuclein. <i>Science</i> , 2022, 377, .	6.0	65
168	<i>SOX9</i> maintains human foetal lung tip progenitor state by enhancing <i>WNT</i> and <i>RTK</i> signalling. <i>EMBO Journal</i> , 2022, 41, .	3.5	15
169	Regulation of mitophagy by the NSL complex underlies genetic risk for Parkinson's disease at 16q11.2 and <i>MAPT</i> H1 loci. <i>Brain</i> , 2022, 145, 4349-4367.	3.7	24
170	Modeling Schizophrenia In Vitro: Challenges and Insights on Studying Brain Cells. <i>Advances in Experimental Medicine and Biology</i> , 2022, , 35-51.	0.8	0
171	Allele-specific silencing of the gain-of-function mutation in Huntington's disease using CRISPR/Cas9. <i>JCI Insight</i> , 2022, 7, .	2.3	9
173	CRISPR and iPSCs: Recent Developments and Future Perspectives in Neurodegenerative Disease Modelling, Research, and Therapeutics. <i>Neurotoxicity Research</i> , 2022, 40, 1597-1623.	1.3	10
174	Multiplexed functional genomic assays to decipher the noncoding genome. <i>Human Molecular Genetics</i> , 2022, 31, R84-R96.	1.4	4
175	Diseased, differentiated and difficult: Strategies for improved engineering of in vitro neurological systems. <i>Frontiers in Cellular Neuroscience</i> , 0, 16, .	1.8	2
176	Cerebral Organoids as an Experimental Platform for Human Neurogenomics. <i>Cells</i> , 2022, 11, 2803.	1.8	14
177	New Players in Neuronal Iron Homeostasis: Insights from CRISPRi Studies. <i>Antioxidants</i> , 2022, 11, 1807.	2.2	1
181	CRISPRi screens in human iPSC-derived astrocytes elucidate regulators of distinct inflammatory reactive states. <i>Nature Neuroscience</i> , 2022, 25, 1528-1542.	7.1	35
183	A Novel CRISPR Interference Effector Enabling Functional Gene Characterization with Synthetic Guide RNAs. <i>CRISPR Journal</i> , 2022, 5, 769-786.	1.4	2
184	Adding a Chemical Biology Twist to CRISPR Screening. <i>Israel Journal of Chemistry</i> , 0, , .	1.0	0
185	The industrial genomic revolution: A new era in neuroimmunology. <i>Neuron</i> , 2022, 110, 3429-3443.	3.8	2
186	Pooled genetic screens with image-based profiling. <i>Molecular Systems Biology</i> , 2022, 18, .	3.2	8
187	Towards elucidating disease-relevant states of neurons and glia by CRISPR-based functional genomics. <i>Genome Medicine</i> , 2022, 14, .	3.6	1
188	Massively Parallel CRISPR-Based Genetic Perturbation Screening at Single-Cell Resolution. <i>Advanced Science</i> , 2023, 10, .	5.6	6

#	ARTICLE	IF	CITATIONS
189	Active DNA demethylation promotes cell fate specification and the DNA damage response. <i>Science</i> , 2022, 378, 983-989.	6.0	39
190	A reference human induced pluripotent stem cell line for large-scale collaborative studies. <i>Cell Stem Cell</i> , 2022, 29, 1685-1702.e22.	5.2	59
194	Development and Application of Brain Region-Specific Organoids for Investigating Psychiatric Disorders. <i>Biological Psychiatry</i> , 2023, 93, 594-605.	0.7	10
195	Impaired ribosome-associated quality control of <i>C9orf72</i> arginine-rich dipeptide-repeat proteins. <i>Brain</i> , 2023, 146, 2897-2912.	3.7	6
196	CRISPR/Cas-Based Approaches to Study Schizophrenia and Other Neurodevelopmental Disorders. <i>International Journal of Molecular Sciences</i> , 2023, 24, 241.	1.8	2
197	An E3 ligase network engages GCN1 to promote the degradation of translation factors on stalled ribosomes. <i>Cell</i> , 2023, 186, 346-362.e17.	13.5	18
199	Escape from NK cell tumor surveillance by NGFR-induced lipid remodeling in melanoma. <i>Science Advances</i> , 2023, 9, .	4.7	3
200	Automated high-content imaging in iPSC-derived neuronal progenitors. <i>SLAS Discovery</i> , 2023, 28, 42-51.	1.4	3
201	Maximizing CRISPRi efficacy and accessibility with dual-sgRNA libraries and optimal effectors. <i>ELife</i> , 0, 11, .	2.8	27
202	Human LUHMES and NES cells as models for studying primary cilia in neurons. <i>Methods in Cell Biology</i> , 2023, , 27-41.	0.5	2
203	Base editing screens map mutations affecting interferon- $\beta$ signaling in cancer. <i>Cancer Cell</i> , 2023, 41, 288-303.e6.	7.7	14
204	The motor system is exceptionally vulnerable to absence of the ubiquitously expressed superoxide dismutase-1. <i>Brain Communications</i> , 2022, 5, .	1.5	1
206	Gene Modulation with CRISPR-based Tools in Human iPSC-Cardiomyocytes. <i>Stem Cell Reviews and Reports</i> , 0, , .	1.7	3
210	A cellular taxonomy of the adult human spinal cord. <i>Neuron</i> , 2023, 111, 328-344.e7.	3.8	48
211	Neurodegeneration cell per cell. <i>Neuron</i> , 2023, 111, 767-786.	3.8	8
212	Emerging trends in organ-on-a-chip systems for drug screening. <i>Acta Pharmaceutica Sinica B</i> , 2023, 13, 2483-2509.	5.7	6
213	Natural variation in gene expression and viral susceptibility revealed by neural progenitor cell villages. <i>Cell Stem Cell</i> , 2023, 30, 312-332.e13.	5.2	20
215	<i>Drosophila melanogaster</i> as a model to study age and sex differences in brain injury and neurodegeneration after mild head trauma. <i>Frontiers in Neuroscience</i> , 0, 17, .	1.4	4

#	ARTICLE	IF	CITATIONS
216	Neurons require glucose uptake and glycolysis in vivo. Cell Reports, 2023, 42, 112335.	2.9	18
217	Optimized whole-genome CRISPR interference screens identify ARID1A-dependent growth regulators in human induced pluripotent stem cells. Stem Cell Reports, 2023, , .	2.3	3
218	Understanding neural development and diseases using CRISPR screens in human pluripotent stem cell-derived cultures. Frontiers in Cell and Developmental Biology, 0, 11, .	1.8	1
219	CRISPR-based functional genomics screening in human-pluripotent-stem-cell-derived cell types. Cell Genomics, 2023, 3, 100300.	3.0	3
220	High-content synaptic phenotyping in human cellular models reveals a role for BET proteins in synapse assembly. ELife, 0, 12, .	2.8	3
258	In Vitro Models of Amyotrophic Lateral Sclerosis. Cellular and Molecular Neurobiology, 2023, 43, 3783-3799.	1.7	1