Kristen Brennand

List of Publications by Citations

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132 papers	8,530 citations	46 h-index	91 g-index
182 ext. papers	10,921 ext. citations	10.8 avg, IF	6.28 L-index

#	Paper	IF	Citations
132	Modelling schizophrenia using human induced pluripotent stem cells. *Nature*, **2011**, 473, 221-5	50.4	1006
131	Gene expression elucidates functional impact of polygenic risk for schizophrenia. *Nature Neuroscience*, **2016**, 19, 1442-1453	25.5	622
130	Identification of small-molecule inhibitors of Zika virus infection and induced neural cell death via a drug repurposing screen. *Nature Medicine*, **2016**, 22, 1101-1107	50.5	458
129	Mosaic copy number variation in human neurons. *Science*, **2013**, 342, 632-7	33.3	404
128	Reprogramming of pancreatic beta cells into induced pluripotent stem cells. *Current Biology*, **2008**, 18, 890-4	6.3	343
127	Differential responses to lithium in hyperexcitable neurons from patients with bipolar disorder. *Nature*, **2015**, 527, 95-9	50.4	315
126	Phenotypic differences in hiPSC NPCs derived from patients with schizophrenia. *Molecular Psychiatry*, **2015**, 20, 361-8	15.1	272
125	Altered proliferation and networks in neural cells derived from idiopathic autistic individuals. *Molecular Psychiatry*, **2017**, 22, 820-835	15.1	224
124	Modeling hippocampal neurogenesis using human pluripotent stem cells. *Stem Cell Reports*, **2014**, 2, 295-310	8	196
123	A role for noncoding variation in schizophrenia. *Cell Reports*, **2014**, 9, 1417-29	10.6	174
122	All beta cells contribute equally to islet growth and maintenance. *PLoS Biology*, **2007**, 5, e163	9.7	168
121	An Efficient Platform for Astrocyte Differentiation from Human Induced Pluripotent Stem Cells. *Stem Cell Reports*, **2017**, 9, 600-614	8	158
120	High-Content Screening in hPSC-Neural Progenitors Identifies Drug Candidates that Inhibit Zika Virus Infection in Fetal-like Organoids and Adult Brain. *Cell Stem Cell*, **2017**, 21, 274-283.e5	18	144
119	Induced pluripotent stem cells (iPSCs) and neurological disease modeling: progress and promises. *Human Molecular Genetics*, **2011**, 20, R109-15	5.6	142
118	Integrative network analysis of nineteen brain regions identifies molecular signatures and networks underlying selective regional vulnerability to Alzheimer's disease. *Genome Medicine*, **2016** , 8, 104	14.4	135
117	Investigating synapse formation and function using human pluripotent stem cell-derived neurons. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 3005-10	11.5	113
116	Normal ovarian surface epithelial label-retaining cells exhibit stem/progenitor cell characteristics. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 12469-73	11.5	109

115	Transcriptional signatures of schizophrenia in hiPSC-derived NPCs and neurons are concordant with post-mortem adult brains. *Nature Communications*, **2017**, 8, 2225	17.4	92
114	Modeling psychiatric disorders at the cellular and network levels. *Molecular Psychiatry*, **2012**, 17, 1239-53	15.1	92
113	Neuron-specific signatures in the chromosomal connectome associated with schizophrenia risk. *Science*, **2018**, 362,	33.3	91
112	Synergistic effects of common schizophrenia risk variants. *Nature Genetics*, **2019**, 51, 1475-1485	36.3	90
111	Cerebral organoids reveal early cortical maldevelopment in schizophrenia-computational anatomy and genomics, role of FGFR1. *Translational Psychiatry*, **2017**, 7, 6	8.6	90
110	The methyltransferase SETDB1 regulates a large neuron-specific topological chromatin domain. *Nature Genetics*, **2017**, 49, 1239-1250	36.3	88
109	Rapid cellular turnover in adipose tissue. *PLoS ONE*, **2011**, 6, e17637	3.7	85
108	Dysregulation of miRNA-9 in a Subset of Schizophrenia Patient-Derived Neural Progenitor Cells. *Cell Reports*, **2016**, 15, 1024-1036	10.6	82
107	Human iPSC neurons display activity-dependent neurotransmitter secretion: aberrant catecholamine levels in schizophrenia neurons. *Stem Cell Reports*, **2014**, 3, 531-8	8	82
106	A computational tool (H-MAGMA) for improved prediction of brain-disorder risk genes by incorporating brain chromatin interaction profiles. *Nature Neuroscience*, **2020**, 23, 583-593	25.5	81
105	Roles of heat shock factor 1 in neuronal response to fetal environmental risks and its relevance to brain disorders. *Neuron*, **2014**, 82, 560-72	13.9	80
104	9. MODELLING THE IMPACT OF RARE AND COMMON VARIANTS IN SCHIZOPHRENIA USING STEM CELLS. *Schizophrenia Bulletin*, **2019**, 45, S101-S101	1.3	78
103	Correction for Szotek et al., Normal ovarian surface epithelial label-retaining cells exhibit stem/progenitor cell characteristics. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 19024-19024	11.5	78
102	T9. EPIGENETIC PROFILING IN SCHIZOPHRENIA DERIVED HUMAN INDUCED PLURIPOTENT STEM CELLS (HIPSCS) AND NEURONS. *Schizophrenia Bulletin*, **2020**, 46, S234-S234	1.3	78
101	20. THE APPLICATION OF STEM CELL MODELS TO VALIDATE RARE AND COMMON VARIANTS CONTRIBUTING TO SCHIZOPHRENIA. *Schizophrenia Bulletin*, **2018**, 44, S32-S33	1.3	78
100	20.4 MODELING THE CONTRIBUTION OF COMMON VARIANTS TO SCHIZOPHRENIA RISK. *Schizophrenia Bulletin*, **2018**, 44, S34-S34	1.3	78
99	Landscape of Conditional eQTL in Dorsolateral Prefrontal Cortex and Co-localization with Schizophrenia GWAS. *American Journal of Human Genetics*, **2018**, 102, 1169-1184	11	73
98	Rapid Ngn2-induction of excitatory neurons from hiPSC-derived neural progenitor cells. *Methods*, **2016**, 101, 113-24	4.6	71

97	Creating Patient-Specific Neural Cells for the In Vitro Study of Brain Disorders. *Stem Cell Reports*, **2015**, 5, 933-945	8	63
96	Altered WNT Signaling in Human Induced Pluripotent Stem Cell Neural Progenitor Cells Derived from Four Schizophrenia Patients. *Biological Psychiatry*, **2015**, 78, e29-34	7.9	62
95	Concise review: the promise of human induced pluripotent stem cell-based studies of schizophrenia. *Stem Cells*, **2011**, 29, 1915-22	5.8	60
94	Brief report: efficient generation of hematopoietic precursors and progenitors from human pluripotent stem cell lines. *Stem Cells*, **2011**, 29, 1158-64	5.8	60
93	In utero exposure to maternal smoking is associated with DNA methylation alterations and reduced neuronal content in the developing fetal brain. *Epigenetics and Chromatin*, **2017**, 10, 4	5.8	55
92	Noncoding RNAs and neurobehavioral mechanisms in psychiatric disease. *Molecular Psychiatry*, **2015**, 20, 677-684	15.1	55
91	High-efficient generation of induced pluripotent stem cells from human astrocytes. *PLoS ONE*, **2010**, 5, e15526	3.7	53
90	Modeling psychiatric disorders through reprogramming. *DMM Disease Models and Mechanisms*, **2012**, 5, 26-32	4.1	52
89	Spatial genome organization and cognition. *Nature Reviews Neuroscience*, **2016**, 17, 681-691	13.5	49
88	MEF2C transcription factor is associated with the genetic and epigenetic risk architecture of schizophrenia and improves cognition in mice. *Molecular Psychiatry*, **2018**, 23, 123-132	15.1	46
87	Evaluating Synthetic Activation and Repression of Neuropsychiatric-Related Genes in hiPSC-Derived NPCs, Neurons, and Astrocytes. *Stem Cell Reports*, **2017**, 9, 615-628	8	46
86	Modeling heterogeneous patients with a clinical diagnosis of schizophrenia with induced pluripotent stem cells. *Biological Psychiatry*, **2014**, 75, 936-44	7.9	46
85	Sex-Specific Role for the Long Non-coding RNA LINC00473 in Depression. *Neuron*, **2020**, 106, 912-926.e5	13.9	46
84	New considerations for hiPSC-based models of neuropsychiatric disorders. *Molecular Psychiatry*, **2019**, 24, 49-66	15.1	45
83	A psychiatric disease-related circular RNA controls synaptic gene expression and cognition. *Molecular Psychiatry*, **2020**, 25, 2712-2727	15.1	44
82	Chronotype and cellular circadian rhythms predict the clinical response to lithium maintenance treatment in patients with bipolar disorder. *Neuropsychopharmacology*, **2019**, 44, 620-628	8.7	43
81	Characterization of molecular and cellular phenotypes associated with a heterozygous deletion using patient-derived hiPSC neural cells. *NPJ Schizophrenia*, **2015**, 1,	5.5	42
80	The Pharmacogenomics of Bipolar Disorder study (PGBD): identification of genes for lithium response in a prospective sample. *BMC Psychiatry*, **2016**, 16, 129	4.2	42

79	Neuronal impact of patient-specific aberrant NRXN1 splicing. *Nature Genetics*, **2019**, 51, 1679-1690	36.3	41
78	Molecular subtyping of Alzheimer's disease using RNA sequencing data reveals novel mechanisms and targets. *Science Advances*, **2021**, 7,	14.3	39
77	Expression-based drug screening of neural progenitor cells from individuals with schizophrenia. *Nature Communications*, **2018**, 9, 4412	17.4	39
76	A guide to generating and using hiPSC derived NPCs for the study of neurological diseases. *Journal of Visualized Experiments*, **2015**, e52495	1.6	38
75	Common developmental genome deprogramming in schizophrenia - Role of Integrative Nuclear FGFR1 Signaling (INFS). *Schizophrenia Research*, **2017**, 185, 17-32	3.6	37
74	GJA1 (connexin43) is a key regulator of Alzheimer's disease pathogenesis. *Acta Neuropathologica Communications*, **2018**, 6, 144	7.3	37
73	Increased abundance of translation machinery in stem cell-derived neural progenitor cells from four schizophrenia patients. *Translational Psychiatry*, **2015**, 5, e662	8.6	34
72	Global landscape and genetic regulation of RNA editing in cortical samples from individuals with schizophrenia. *Nature Neuroscience*, **2019**, 22, 1402-1412	25.5	32
71	Evolving toward a human-cell based and multiscale approach to drug discovery for CNS disorders. *Frontiers in Pharmacology*, **2014**, 5, 252	5.6	31
70	Neural organoids for disease phenotyping, drug screening and developmental biology studies. *Neurochemistry International*, **2017**, 106, 85-93	4.4	29
69	Activity-Dependent Changes in Gene Expression in Schizophrenia Human-Induced Pluripotent Stem Cell Neurons. *JAMA Psychiatry*, **2016**, 73, 1180-1188	14.5	29
68	Transformative Network Modeling of Multi-omics Data Reveals Detailed Circuits, Key Regulators, and Potential Therapeutics for Alzheimer's Disease. *Neuron*, **2021**, 109, 257-272.e14	13.9	29
67	Inhibition of STEP ameliorates deficits in mouse and hiPSC-based schizophrenia models. *Molecular Psychiatry*, **2018**, 23, 271-281	15.1	28
66	Slow and steady is the key to beta-cell replication. *Journal of Cellular and Molecular Medicine*, **2009**, 13, 472-87	5.6	25
65	Type I interferon response impairs differentiation potential of pluripotent stem cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 1384-1393	11.5	25
64	From "directed differentiation" to "neuronal induction": modeling neuropsychiatric disease. *Biomarker Insights*, **2015**, 10, 31-41	3.5	22
63	Common Genetic Variation in Humans Impacts In Vitro Susceptibility to SARS-CoV-2 Infection. *Stem Cell Reports*, **2021**, 16, 505-518	8	22
62	Patient-derived hiPSC neurons with heterozygous CNTNAP2 deletions display altered neuronal gene expression and network activity. *NPJ Schizophrenia*, **2017**, 3, 35	5.5	21

61	Modeling the complex genetic architectures of brain disease. *Nature Genetics*, **2020**, 52, 363-369	36.3	21
60	Mapping regulatory variants in hiPSC models. *Nature Genetics*, **2018**, 50, 1-2	36.3	21
59	THC exposure of human iPSC neurons impacts genes associated with neuropsychiatric disorders. *Translational Psychiatry*, **2018**, 8, 89	8.6	21
58	Modeling schizophrenia using induced pluripotent stem cell-derived and fibroblast-induced neurons. *Schizophrenia Bulletin*, **2013**, 39, 4-10	1.3	21
57	Application of CRISPR/Cas9 to the study of brain development and neuropsychiatric disease. *Molecular and Cellular Neurosciences*, **2017**, 82, 157-166	4.8	19
56	Functional annotation of rare structural variation in the human brain. *Nature Communications*, **2020**, 11, 2990	17.4	18
55	Neural stem and progenitor cells in health and disease. *Wiley Interdisciplinary Reviews: Systems Biology and Medicine*, **2013**, 5, 701-15	6.6	18
54	Massively parallel techniques for cataloguing the regulome of the human brain. *Nature Neuroscience*, **2020**, 23, 1509-1521	25.5	18
53	ASCL1- and DLX2-induced GABAergic neurons from hiPSC-derived NPCs. *Journal of Neuroscience Methods*, **2020**, 334, 108548	3	17
52	The Importance of Non-neuronal Cell Types in hiPSC-Based Disease Modeling and Drug Screening. *Frontiers in Cell and Developmental Biology*, **2017**, 5, 117	5.7	17
51	Marker chromosome genomic structure and temporal origin implicate a chromoanasynthesis event in a family with pleiotropic psychiatric phenotypes. *Human Mutation*, **2018**, 39, 939-946	4.7	16
50	Prospects for Modeling Abnormal Neuronal Function in Schizophrenia Using Human Induced Pluripotent Stem Cells. *Frontiers in Cellular Neuroscience*, **2017**, 11, 360	6.1	15
49	Dopaminergic differentiation of schizophrenia hiPSCs. *Molecular Psychiatry*, **2015**, 20, 549-50	15.1	15
48	Variations in brain defects result from cellular mosaicism in the activation of heat shock signalling. *Nature Communications*, **2017**, 8, 15157	17.4	14
47	Modeling Neuropsychiatric and Neurodegenerative Diseases With Induced Pluripotent Stem Cells. *Frontiers in Pediatrics*, **2018**, 6, 82	3.4	13
46	Examining the relationship between astrocyte dysfunction and neurodegeneration in ALS using hiPSCs. *Neurobiology of Disease*, **2019**, 132, 104562	7.5	13
45	Using hiPSCs to model neuropsychiatric copy number variations (CNVs) has potential to reveal underlying disease mechanisms. *Brain Research*, **2017**, 1655, 283-293	3.7	12
44	Differential transcriptional response following glucocorticoid activation in cultured blood immune cells: a novel approach to PTSD biomarker development. *Translational Psychiatry*, **2019**, 9, 201	8.6	12

43	Transcriptional signatures of participant-derived neural progenitor cells and neurons implicate altered Wnt signaling in Phelan-McDermid syndrome and autism. *Molecular Autism*, **2020**, 11, 53	6.5	11
42	Spatial genome exploration in the context of cognitive and neurological disease. *Current Opinion in Neurobiology*, **2019**, 59, 112-119	7.6	10
41	Integrating CRISPR Engineering and hiPSC-Derived 2D Disease Modeling Systems. *Journal of Neuroscience*, **2020**, 40, 1176-1185	6.6	9
40	Inducing cellular aging: enabling neurodegeneration-in-a-dish. *Cell Stem Cell*, **2013**, 13, 635-6	18	9
39	Circadian rhythms in bipolar disorder patient-derived neurons predict lithium response: preliminary studies. *Molecular Psychiatry*, **2021**, 26, 3383-3394	15.1	7
38	Divergent Levels of Marker Chromosomes in an hiPSC-Based Model of Psychosis. *Stem Cell Reports*, **2017**, 8, 519-528	8	6
37	Fitness selection of hyperfusogenic measles virus F proteins associated with neuropathogenic phenotypes. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	6
36	Applying stem cells and CRISPR engineering to uncover the etiology of schizophrenia. *Current Opinion in Neurobiology*, **2021**, 69, 193-201	7.6	6
35	Parsing the Functional Impact of Noncoding Genetic Variants in the Brain Epigenome. *Biological Psychiatry*, **2021**, 89, 65-75	7.9	5
34	THC Treatment Alters Glutamate Receptor Gene Expression in Human Stem Cell-Derived Neurons. *Molecular Neuropsychiatry*, **2017**, 3, 73-84	4.9	4
33	Entrainment of Circadian Rhythms to Temperature Reveals Amplitude Deficits in Fibroblasts from Patients with Bipolar Disorder and Possible Links to Calcium Channels. *Molecular Neuropsychiatry*, **2019**, 5, 115-124	4.9	4
32	Common genetic variation in humans impacts susceptibility to SARS-CoV-2 infection **2020**,		4
31	CRISPR-based functional evaluation of schizophrenia risk variants. *Schizophrenia Research*, **2020**, 217, 26-36	3.6	4
30	Publicly Available hiPSC Lines with Extreme Polygenic Risk Scores for Modeling Schizophrenia. *Complex Psychiatry*, **2021**, 6, 68-82	2.3	3
29	Investigation of Schizophrenia with Human Induced Pluripotent Stem Cells. *Advances in Neurobiology*, **2020**, 25, 155-206	2.1	3
28	Gene Expression Elucidates Functional Impact of Polygenic Risk for Schizophrenia		3
27	Publicly available hiPSC lines with extreme polygenic risk scores for modeling schizophrenia		3
26	Functional annotation of rare structural variation in the human brain		3

25	Integration of CRISPR-engineering and hiPSC-based models of psychiatric genomics. *Molecular and Cellular Neurosciences*, **2020**, 107, 103532	4.8	3
24	Chromatin profiling in human neurons reveals aberrant roles for histone acetylation and BET family proteins in schizophrenia.. *Nature Communications*, **2022**, 13, 2195	17.4	3
23	Cell Type-Specific In Vitro Gene Expression Profiling of Stem Cell-Derived Neural Models. *Cells*, **2020**, 9,	7.9	2
22	Modeling Hippocampal Neurogenesis Using Human Pluripotent Stem Cells. *Stem Cell Reports*, **2014**, 3, 217	8	2
21	Neural Induction of Embryonic Stem/Induced Pluripotent Stem Cells **2013**, 111-129		2
20	A bidirectional competitive interaction between circHomer1 and Homer1b within the orbitofrontal cortex regulates reversal learning.. *Cell Reports*, **2022**, 38, 110282	10.6	2
19	Is Huntington’s disease a neurodevelopmental disorder?. *Science Translational Medicine*, **2016**, 8, 320ec1-320ec1	17.9	2
18	Transcriptional signatures of schizophrenia in hiPSC-derived NPCs and neurons are concordant with signatures from post mortem adult brains		2
17	IL10RB as a key regulator of COVID-19 host susceptibility and severity **2021**,		2
16	Induction of dopaminergic neurons for neuronal subtype-specific modeling of psychiatric disease risk. *Molecular Psychiatry*, **2021**,	15.1	2
15	Induced Pluripotent Stem Cells in Psychiatry: An Overview and Critical Perspective. *Biological Psychiatry*, **2021**, 90, 362-372	7.9	2
14	Analysis framework and experimental design for evaluating synergy-driving gene expression. *Nature Protocols*, **2021**, 16, 812-840	18.8	2
13	Leveraging Human Induced Pluripotent Stem Cell-Based Models Provides Biological Context to Genome-wide Association Study Findings. *Biological Psychiatry*, **2019**, 85, 532-533	7.9	1
12	Molecular Networks and Key Regulators of the Dysregulated Neuronal System in Alzheimer’s Disease		1
11	Xenopus models suggest convergence of gene signatures on neurogenesis in autism. *Neuron*, **2021**, 109, 743-745	13.9	0
10	Using the dCas9-KRAB system to repress gene expression in hiPSC-derived neurons. *STAR Protocols* , **2021**, 2, 100580	1.4	0
9	Using Stem Cell Models to Explore the Genetics Underlying Psychiatric Disorders: Linking Risk Variants, Genes, and Biology in Brain Disease.. *American Journal of Psychiatry*, **2022**, 179, 322-328	11.9	0
8	If there is not one cure for schizophrenia, there may be many. *NPJ Schizophrenia*, **2020**, 6, 11	5.5	

7	Modeling the Brain in the Culture Dish: Advancements and Applications of Induced Pluripotent Stem-Cell-Derived Neurons **2018**, 119-157	
6	Quickly moving too slowly: Interneuron migration in Timothy Syndrome.. *Cell Stem Cell*, **2022**, 29, 181-183	18
5	CRISPR-based functional evaluation of common SZ risk variants. *FASEB Journal*, **2019**, 33, 205.2	0.9
4	Haploinsufficiency of POU4F1 causes an ataxia syndrome with hypotonia and intention tremor. *Human Mutation*, **2021**, 42, 685-693	4.7
3	hiPSC Models Relevant to Schizophrenia. *Handbook of Behavioral Neuroscience*, **2016**, 391-406	0.7
2	P1-021: Exploring Cell Autonomous and Non-Cell Autonomous Effects of APOE Genotype in IPSC-Derived Astrocytes and Neurons **2016**, 12, P407-P407	
1	Functional genomics of psychiatric disease risk using genome engineering **2021**, 711-734	