Michael J Gandal

List of Publications by Year in Descending Order

74 papers	7,203 citations	36 h-index	84 g-index
98 ext. papers	10,639 ext. citations	15.5 avg, IF	5.53 L-index

#	Paper	IF	Citations
74	Human Astrocytes Exhibit Tumor Microenvironment-, Age-, and Sex-Related Transcriptomic Signatures.. *Journal of Neuroscience*, **2022**,	6.6	2
73	Mapping genomic loci implicates genes and synaptic biology in schizophrenia.. *Nature*, **2022**,	50.4	35
72	Full-length transcript sequencing of human and mouse cerebral cortex identifies widespread isoform diversity and alternative splicing. *Cell Reports*, **2021**, 37, 110022	10.6	5
71	Associations between patterns in comorbid diagnostic trajectories of individuals with schizophrenia and etiological factors. *Nature Communications*, **2021**, 12, 6617	17.4	1
70	Maternal Immune Activation during Pregnancy Alters Postnatal Brain Growth and Cognitive Development in Nonhuman Primate Offspring. *Journal of Neuroscience*, **2021**, 41, 9971-9987	6.6	3
69	Genome-wide association study of more than 40,000 bipolar disorder cases provides new insights into the underlying biology. *Nature Genetics*, **2021**, 53, 817-829	36.3	83
68	Leveraging eQTLs to identify individual-level tissue of interest for a complex trait. *PLoS Computational Biology*, **2021**, 17, e1008915	5	1
67	Brain gene co-expression networks link complement signaling with convergent synaptic pathology in schizophrenia. *Nature Neuroscience*, **2021**, 24, 799-809	25.5	9
66	Neuronal and glial 3D chromatin architecture informs the cellular etiology of brain disorders. *Nature Communications*, **2021**, 12, 3968	17.4	2
65	Transcriptomic Insight Into the Polygenic Mechanisms Underlying Psychiatric Disorders. *Biological Psychiatry*, **2021**, 89, 54-64	7.9	12
64	Polygenicity in Psychiatry-Like It or Not, We Have to Understand It. *Biological Psychiatry*, **2021**, 89, 2-4	7.9	3
63	Alterations in Retrotransposition, Synaptic Connectivity, and Myelination Implicated by Transcriptomic Changes Following Maternal Immune Activation in Nonhuman Primates. *Biological Psychiatry*, **2021**, 89, 896-910	7.9	7
62	Quantum computing at the frontiers of biological sciences. *Nature Methods*, **2021**, 18, 701-709	21.6	14
61	Identification of neural oscillations and epileptiform changes in human brain organoids. *Nature Neuroscience*, **2021**, 24, 1488-1500	25.5	20
60	Postnatal immune activation causes social deficits in a mouse model of tuberous sclerosis: Role of microglia and clinical implications. *Science Advances*, **2021**, 7, eabf2073	14.3	1
59	Dissecting the Shared Genetic Architecture of Suicide Attempt, Psychiatric Disorders, and Known Risk Factors. *Biological Psychiatry*, **2021**,	7.9	11
58	A Robust Method Uncovers Significant Context-Specific Heritability in Diverse Complex Traits. *American Journal of Human Genetics*, **2020**, 106, 71-91	11	21

57	Integrative genomics identifies a convergent molecular subtype that links epigenomic with transcriptomic differences in autism. *Nature Communications*, **2020**, 11, 4873	17.4	23
56	Synaptic and Gene Regulatory Mechanisms in Schizophrenia, Autism, and 22q11.2 Copy Number Variant-Mediated Risk for Neuropsychiatric Disorders. *Biological Psychiatry*, **2020**, 87, 150-163	7.9	23
55	Profiling allele-specific gene expression in brains from individuals with autism spectrum disorder reveals preferential minor allele usage. *Nature Neuroscience*, **2019**, 22, 1521-1532	25.5	17
54	A genome-wide association study of shared risk across psychiatric disorders implicates gene regulation during fetal neurodevelopment. *Nature Neuroscience*, **2019**, 22, 353-361	25.5	93
53	Human Gut Microbiota from Autism Spectrum Disorder Promote Behavioral Symptoms in Mice. *Cell* , **2019**, 177, 1600-1618.e17	56.2	379
52	Shared Molecular Neuropathology Across Major Psychiatric Disorders Parallels Polygenic Overlap. *Focus (American Psychiatric Publishing)*, **2019**, 17, 66-72	1.1	6
51	Inherited and De Novo Genetic Risk for Autism Impacts Shared Networks. *Cell*, **2019**, 178, 850-866.e26	56.2	142
50	Mechanisms of Neuronal Alternative Splicing and Strategies for Therapeutic Interventions. *Journal of Neuroscience*, **2019**, 39, 8193-8199	6.6	11
49	Genetic Control of Expression and Splicing in Developing Human Brain Informs Disease Mechanisms. *Cell*, **2019**, 179, 750-771.e22	56.2	70
48	Discovery of the first genome-wide significant risk loci for attention deficit/hyperactivity disorder. *Nature Genetics*, **2019**, 51, 63-75	36.3	826
47	Integrative network analysis reveals biological pathways associated with Williams syndrome. *Journal of Child Psychology and Psychiatry and Allied Disciplines*, **2019**, 60, 585-598	7.9	14
46	Shared molecular neuropathology across major psychiatric disorders parallels polygenic overlap. *Science*, **2018**, 359, 693-697	33.3	547
45	Strong correlation of downregulated genes related to synaptic transmission and mitochondria in post-mortem autism cerebral cortex. *Journal of Neurodevelopmental Disorders*, **2018**, 10, 18	4.6	31
44	Banking on Polygenicity to Disentangle Psychiatric Comorbidity. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, **2018**, 3, 577-578	3.4	
43	Spatial fine-mapping for gene-by-environment effects identifies risk hot spots for schizophrenia. *Nature Communications*, **2018**, 9, 5296	17.4	10
42	Transcriptome and epigenome landscape of human cortical development modeled in organoids. *Science*, **2018**, 362,	33.3	142
41	Integrative functional genomic analysis of human brain development and neuropsychiatric risks. *Science*, **2018**, 362,	33.3	277
40	Transcriptome-wide isoform-level dysregulation in ASD, schizophrenia, and bipolar disorder. *Science*, **2018**, 362,	33.3	434

39	Comprehensive functional genomic resource and integrative model for the human brain. *Science*, **2018**, 362,	33.3	319
38	The contribution of rare variants to risk of schizophrenia in individuals with and without intellectual disability. *Nature Genetics*, **2017**, 49, 1167-1173	36.3	132
37	The road to precision psychiatry: translating genetics into disease mechanisms. *Nature Neuroscience* , **2016**, 19, 1397-1407	25.5	131
36	Chromosome conformation elucidates regulatory relationships in developing human brain. *Nature*, **2016**, 538, 523-527	50.4	334
35	The Genetics-Driven Revival in Neuropsychiatric Drug Development. *Biological Psychiatry*, **2016**, 79, 628-30	7.9	2
34	Cannabis-induced psychosis associated with high potency "wax dabs". *Schizophrenia Research*, **2016**, 172, 211-2	3.6	56
33	Genome-wide changes in lncRNA, splicing, and regional gene expression patterns in autism. *Nature*, **2016**, 540, 423-427	50.4	362
32	Systems biology and gene networks in neurodevelopmental and neurodegenerative disorders. *Nature Reviews Genetics*, **2015**, 16, 441-58	30.1	270
31	Pyramidal cell selective ablation of N-methyl-D-aspartate receptor 1 causes increase in cellular and network excitability. *Biological Psychiatry*, **2015**, 77, 556-68	7.9	75
30	Parvalbumin cell ablation of NMDA-R1 causes increased resting network excitability with associated social and self-care deficits. *Neuropsychopharmacology*, **2014**, 39, 1603-13	8.7	81
29	Convergence of circuit dysfunction in ASD: a common bridge between diverse genetic and environmental risk factors and common clinical electrophysiology. *Frontiers in Cellular Neuroscience* , **2014**, 8, 414	6.1	25
28	Mice with reduced NMDA receptor expression: more consistent with autism than schizophrenia?. *Genes, Brain and Behavior*, **2012**, 11, 740-50	3.6	88
27	MeCP2+/- mouse model of RTT reproduces auditory phenotypes associated with Rett syndrome and replicate select EEG endophenotypes of autism spectrum disorder. *Neurobiology of Disease*, **2012**, 46, 88-92	7.5	40
26	NMDA antagonists recreate signal-to-noise ratio and timing perturbations present in schizophrenia. *Neurobiology of Disease*, **2012**, 46, 93-100	7.5	63
25	Gamma synchrony: towards a translational biomarker for the treatment-resistant symptoms of schizophrenia. *Neuropharmacology*, **2012**, 62, 1504-18	5.5	206
24	NMDA antagonist MK801 recreates auditory electrophysiology disruption present in autism and other neurodevelopmental disorders. *Behavioural Brain Research*, **2012**, 234, 233-7	3.4	30
23	GABAB-mediated rescue of altered excitatory-inhibitory balance, gamma synchrony and behavioral deficits following constitutive NMDAR-hypofunction. *Translational Psychiatry*, **2012**, 2, e142	8.6	144
22	Measuring the maturity of the fast-spiking interneuron transcriptional program in autism, schizophrenia, and bipolar disorder. *PLoS ONE*, **2012**, 7, e41215	3.7	49

21	Nicotine normalizes event related potentials in COMT-Val-tg mice and increases gamma and theta spectral density. *Behavioral Neuroscience*, **2012**, 126, 332-43	2.1	9
20	mGluR5-antagonist mediated reversal of elevated stereotyped, repetitive behaviors in the VPA model of autism. *PLoS ONE*, **2011**, 6, e26077	3.7	117
19	Dysbindin-1 mutant mice implicate reduced fast-phasic inhibition as a final common disease mechanism in schizophrenia. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, E962-70	11.5	83
18	Ketamine modulates theta and gamma oscillations. *Journal of Cognitive Neuroscience*, **2010**, 22, 1452-64	3.1	164
17	Validating oscillations and delayed auditory responses as translational biomarkers of autism. *Biological Psychiatry*, **2010**, 68, 1100-6	7.9	218
16	Mouse behavioral endophenotypes for schizophrenia. *Brain Research Bulletin*, **2010**, 83, 147-61	3.9	127
15	MEG detection of delayed auditory evoked responses in autism spectrum disorders: towards an imaging biomarker for autism. *Autism Research*, **2010**, 3, 8-18	5.1	172
14	In vitro-in vivo correlations of scalable PLGA-risperidone implants for the treatment of schizophrenia. *Pharmaceutical Research*, **2010**, 27, 1730-7	4.5	75
13	N-methyl-d-aspartic acid receptor antagonist-induced frequency oscillations in mice recreate pattern of electrophysiological deficits in schizophrenia. *Neuroscience*, **2009**, 158, 705-12	3.9	135
12	A novel electrophysiological model of chemotherapy-induced cognitive impairments in mice. *Neuroscience*, **2008**, 157, 95-104	3.9	64
11	Deletion of vanilloid receptor 1-expressing primary afferent neurons for pain control. *Journal of Clinical Investigation*, **2004**, 113, 1344-52	15.9	252
10	Genetic control of gene expression and splicing in the developing human brain		3
9	Shared molecular neuropathology across major psychiatric disorders parallels polygenic overlap		3
8	Discovery of the first genome-wide significant risk loci for ADHD		62
7	TGF superfamily signaling regulates the state of human stem cell pluripotency and competency to create telencephalic organoids		3
6	Brain gene co-expression networks link complement signaling with convergent synaptic pathology in schizophrenia		2
5	Genome-wide association study of over 40,000 bipolar disorder cases provides new insights into the underlying biology		11
4	Broad transcriptomic dysregulation across the cerebral cortex in ASD		3

3	Whole genome sequencing in multiplex families reveals novel inherited and de novo genetic risk in autism	5
2	Association between resting-state functional brain connectivity and gene expression is altered in autism spectrum disorder	1
1	Human Astrocytes Exhibit Tumor Microenvironment-, Age-, and Sex-Related Transcriptomic Signatures	1