

# Michael E Talkowski

## List of Publications by Year in Descending Order

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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.

135  
papers

11,186  
citations

43  
h-index

105  
g-index

167  
ext. papers

16,717  
ext. citations

14.1  
avg, IF

5.58  
L-index

#	Paper	IF	Citations
135	Centers for Mendelian Genomics: A decade of facilitating gene discovery.. <i>Genetics in Medicine</i> , <b>2022</b> ,	8.1	5
134	Dystonia-specific mutations in THAP1 alter transcription of genes associated with neurodevelopment and myelin. <i>American Journal of Human Genetics</i> , <b>2021</b> , 108, 2145-2158	11	1
133	Prevalence and phenotypic impact of rare potentially damaging variants in autism spectrum disorder. <i>Molecular Autism</i> , <b>2021</b> , 12, 65	6.5	4
132	Whole exome sequencing analyses reveal gene-microbiota interactions in the context of IBD. <i>Gut</i> , <b>2021</b> , 70, 285-296	19.2	9
131	Xenopus models suggest convergence of gene signatures on neurogenesis in autism. <i>Neuron</i> , <b>2021</b> , 109, 743-745	13.9	0
130	Familial thrombocytopenia due to a complex structural variant resulting in a WAC-ANKRD26 fusion transcript. <i>Journal of Experimental Medicine</i> , <b>2021</b> , 218,	16.6	5
129	Haplotype-resolved diverse human genomes and integrated analysis of structural variation. <i>Science</i> , <b>2021</b> , 372,	33.3	100
128	De novo structural mutation rates and gamete-of-origin biases revealed through genome sequencing of 2,396 families. <i>American Journal of Human Genetics</i> , <b>2021</b> , 108, 597-607	11	13
127	Contribution of Copy Number Variation in Idiopathic Hypogonadotropic Hypogonadism. <i>Journal of the Endocrine Society</i> , <b>2021</b> , 5, A756-A756	0.4	78
126	16p11.2 deletion is associated with hyperactivation of human iPSC-derived dopaminergic neuron networks and is rescued by RHOA inhibition in vitro. <i>Nature Communications</i> , <b>2021</b> , 12, 2897	17.4	5
125	Expectations and blind spots for structural variation detection from long-read assemblies and short-read genome sequencing technologies. <i>American Journal of Human Genetics</i> , <b>2021</b> , 108, 919-928	11	13
124	A deep learning approach to identify gene targets of a therapeutic for human splicing disorders. <i>Nature Communications</i> , <b>2021</b> , 12, 3332	17.4	3
123	Genome-encoded cytoplasmic double-stranded RNAs, found in ALS-FTD brain, propagate neuronal loss. <i>Science Translational Medicine</i> , <b>2021</b> , 13,	17.5	5
122	Addendum: The mutational constraint spectrum quantified from variation in 141,456 humans. <i>Nature</i> , <b>2021</b> , 597, E3-E4	50.4	3
121	The mutational constraint spectrum quantified from variation in 141,456 humans. <i>Nature</i> , <b>2020</b> , 581, 434-443	50.4	2278
120	A structural variation reference for medical and population genetics. <i>Nature</i> , <b>2020</b> , 581, 444-451	50.4	223
119	Functional annotation of rare structural variation in the human brain. <i>Nature Communications</i> , <b>2020</b> , 11, 2990	17.4	18

118	Transcriptional consequences of MBD5 disruption in mouse brain and CRISPR-derived neurons. <i>Molecular Autism</i> , <b>2020</b> , 11, 45	6.5	3
117	Age dependent association of inbreeding with risk for schizophrenia in Egypt. <i>Schizophrenia Research</i> , <b>2020</b> , 216, 450-459	3.6	1
116	Large-Scale Exome Sequencing Study Implicates Both Developmental and Functional Changes in the Neurobiology of Autism. <i>Cell</i> , <b>2020</b> , 180, 568-584.e23	56.2	578
115	Whole-Genome and RNA Sequencing Reveal Variation and Transcriptomic Coordination in the Developing Human Prefrontal Cortex. <i>Cell Reports</i> , <b>2020</b> , 31, 107489	10.6	43
114	Loss of MAGEL2 in Prader-Willi syndrome leads to decreased secretory granule and neuropeptide production. <i>JCI Insight</i> , <b>2020</b> , 5,	9.9	15
113	Histone deacetylase knockouts modify transcription, CAG instability and nuclear pathology in Huntington disease mice. <i>ELife</i> , <b>2020</b> , 9,	8.9	6
112	Biallelic mutation of FBXL7 suggests a novel form of Hennekam syndrome. <i>American Journal of Medical Genetics, Part A</i> , <b>2020</b> , 182, 189-194	2.5	7
111	TSC patient-derived isogenic neural progenitor cells reveal altered early neurodevelopmental phenotypes and rapamycin-induced MNK-eIF4E signaling. <i>Molecular Autism</i> , <b>2020</b> , 11, 2	6.5	14
110	SYCP2 Translocation-Mediated Dysregulation and Frameshift Variants Cause Human Male Infertility. <i>American Journal of Human Genetics</i> , <b>2020</b> , 106, 41-57	11	39
109	Evidence for secondary-variant genetic burden and non-random distribution across biological modules in a recessive ciliopathy. <i>Nature Genetics</i> , <b>2020</b> , 52, 1145-1150	36.3	12
108	New gene discoveries highlight functional convergence in autism and related neurodevelopmental disorders. <i>Current Opinion in Genetics and Development</i> , <b>2020</b> , 65, 195-206	4.9	13
107	A Balanced Translocation in Kallmann Syndrome Implicates a Long Noncoding RNA, RMST, as a GnRH Neuronal Regulator. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2020</b> , 105,	5.6	11
106	Role of the Chromosome Architectural Factor SMCHD1 in X-Chromosome Inactivation, Gene Regulation, and Disease in Humans. <i>Genetics</i> , <b>2019</b> , 213, 685-703	4	2
105	Introduction of genomics into prenatal diagnostics. <i>Lancet, The</i> , <b>2019</b> , 393, 719-721	40	9
104	Whole-Genome Sequencing to Characterize Monogenic and Polygenic Contributions in Patients Hospitalized With Early-Onset Myocardial Infarction. <i>Circulation</i> , <b>2019</b> , 139, 1593-1602	16.7	112
103	Primary cilia defects causing mitral valve prolapse. <i>Science Translational Medicine</i> , <b>2019</b> , 11,	17.5	39
102	Multi-platform discovery of haplotype-resolved structural variation in human genomes. <i>Nature Communications</i> , <b>2019</b> , 10, 1784	17.4	346
101	Hypomorphic mutation of the mouse Huntington's disease gene orthologue. <i>PLoS Genetics</i> , <b>2019</b> , 15, e1007765	6	6

100	Prioritization of genes driving congenital phenotypes of patients with de novo genomic structural variants. <i>Genome Medicine</i> , <b>2019</b> , 11, 79	14.4	11
99	Next Generation Sequencing of Prenatal Structural Chromosomal Rearrangements Using Large-Insert Libraries. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1885, 251-265	1.4	
98	Kctd13-deficient mice display short-term memory impairment and sex-dependent genetic interactions. <i>Human Molecular Genetics</i> , <b>2019</b> , 28, 1474-1486	5.6	14
97	Dissecting the Causal Mechanism of X-Linked Dystonia-Parkinsonism by Integrating Genome and Transcriptome Assembly. <i>Cell</i> , <b>2018</b> , 172, 897-909.e21	56.2	106
96	Phenotypic interpretation of complex chromosomal rearrangements informed by nucleotide-level resolution and structural organization of chromatin. <i>European Journal of Human Genetics</i> , <b>2018</b> , 26, 374-381	5.3	8
95	An analytical framework for whole-genome sequence association studies and its implications for autism spectrum disorder. <i>Nature Genetics</i> , <b>2018</b> , 50, 727-736	36.3	156
94	Insights into clonal haematopoiesis from 8,342 mosaic chromosomal alterations. <i>Nature</i> , <b>2018</b> , 559, 350-354	35.4	144
93	20.1 DISSECTING THE FUNCTIONAL CONSEQUENCES OF RECIPROCAL GENOMIC DISORDERS. <i>Schizophrenia Bulletin</i> , <b>2018</b> , 44, S33-S33	1.3	78
92	Genome-wide de novo risk score implicates promoter variation in autism spectrum disorder. <i>Science</i> , <b>2018</b> , 362,	33.3	134
91	Risks and Recommendations in Prenatally Detected De Novo Balanced Chromosomal Rearrangements from Assessment of Long-Term Outcomes. <i>American Journal of Human Genetics</i> , <b>2018</b> , 102, 1090-1103	11	19
90	SMCHD1 mutations associated with a rare muscular dystrophy can also cause isolated arhinia and Bosma arhinia microphthalmia syndrome. <i>Nature Genetics</i> , <b>2017</b> , 49, 238-248	36.3	88
89	Potential molecular consequences of transgene integration: The R6/2 mouse example. <i>Scientific Reports</i> , <b>2017</b> , 7, 41120	4.9	8
88	Defining the diverse spectrum of inversions, complex structural variation, and chromothripsis in the morbid human genome. <i>Genome Biology</i> , <b>2017</b> , 18, 36	18.3	109
87	Complex and Dynamic Chromosomal Rearrangements in a Family With Seemingly Non-Mendelian Inheritance of Dopa-Responsive Dystonia. <i>JAMA Neurology</i> , <b>2017</b> , 74, 806-812	17.2	6
86	Ectopic expression of RAD52 and dn53BP1 improves homology-directed repair during CRISPR-Cas9 genome editing. <i>Nature Biomedical Engineering</i> , <b>2017</b> , 1, 878-888	19	48
85	Indexcov: fast coverage quality control for whole-genome sequencing. <i>GigaScience</i> , <b>2017</b> , 6, 1-6	7.6	24
84	Computational Prediction of Position Effects of Apparently Balanced Human Chromosomal Rearrangements. <i>American Journal of Human Genetics</i> , <b>2017</b> , 101, 206-217	11	38
83	A novel microduplication of ARID1B: Clinical, genetic, and proteomic findings. <i>American Journal of Medical Genetics, Part A</i> , <b>2017</b> , 173, 2478-2484	2.5	5

82	WNT/ $\beta$ -Catenin Pathway and Epigenetic Mechanisms Regulate the Pitt-Hopkins Syndrome and Schizophrenia Risk Gene. <i>Molecular Neuropsychiatry</i> , <b>2017</b> , 3, 53-71	4.9	14
81	Mapping and phasing of structural variation in patient genomes using nanopore sequencing. <i>Nature Communications</i> , <b>2017</b> , 8, 1326	17.4	191
80	The genomic landscape of balanced cytogenetic abnormalities associated with human congenital anomalies. <i>Nature Genetics</i> , <b>2017</b> , 49, 36-45	36.3	172
79	Implication of LRRC4C and DPP6 in neurodevelopmental disorders. <i>American Journal of Medical Genetics, Part A</i> , <b>2017</b> , 173, 395-406	2.5	22
78	Mutated Huntingtin Causes Testicular Pathology in Transgenic Minipig Boars. <i>Neurodegenerative Diseases</i> , <b>2016</b> , 16, 245-59	2.3	19
77	Structural Chromosomal Rearrangements Require Nucleotide-Level Resolution: Lessons from Next-Generation Sequencing in Prenatal Diagnosis. <i>American Journal of Human Genetics</i> , <b>2016</b> , 99, 1015-1033	11.33	43
76	Engineering microdeletions and microduplications by targeting segmental duplications with CRISPR. <i>Nature Neuroscience</i> , <b>2016</b> , 19, 517-22	25.5	39
75	Actin capping protein CAPZB regulates cell morphology, differentiation, and neural crest migration in craniofacial morphogenesis. <i>Human Molecular Genetics</i> , <b>2016</b> , 25, 1255-70	5.6	22
74	An eMERGE Clinical Center at Partners Personalized Medicine. <i>Journal of Personalized Medicine</i> , <b>2016</b> , 6,	3.6	22
73	Estrogen-related receptor gamma implicated in a phenotype including hearing loss and mild developmental delay. <i>European Journal of Human Genetics</i> , <b>2016</b> , 24, 1622-1626	5.3	12
72	An Ancient, Unified Mechanism for Metformin Growth Inhibition in <i>C. elegans</i> and Cancer. <i>Cell</i> , <b>2016</b> , 167, 1705-1718.e13	56.2	134
71	Paired-Duplication Signatures Mark Cryptic Inversions and Other Complex Structural Variation. <i>American Journal of Human Genetics</i> , <b>2015</b> , 97, 170-6	11	37
70	Loss of $\beta$ -catenin function in severe autism. <i>Nature</i> , <b>2015</b> , 520, 51-6	50.4	97
69	A Potential Contributory Role for Ciliary Dysfunction in the 16p11.2 600 kb BP4-BP5 Pathology. <i>American Journal of Human Genetics</i> , <b>2015</b> , 96, 784-96	11	35
68	Insights into Autism Spectrum Disorder Genomic Architecture and Biology from 71 Risk Loci. <i>Neuron</i> , <b>2015</b> , 87, 1215-1233	13.9	806
67	Mutations in DCHS1 cause mitral valve prolapse. <i>Nature</i> , <b>2015</b> , 525, 109-13	50.4	107
66	Htt CAG repeat expansion confers pleiotropic gains of mutant huntingtin function in chromatin regulation. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 2442-57	5.6	38
65	Describing sequencing results of structural chromosome rearrangements with a suggested next-generation cytogenetic nomenclature. <i>American Journal of Human Genetics</i> , <b>2014</b> , 94, 695-709	11	40

64	Disruption of the ASTN2/TRIM32 locus at 9q33.1 is a risk factor in males for autism spectrum disorders, ADHD and other neurodevelopmental phenotypes. <i>Human Molecular Genetics</i> , <b>2014</b> , 23, 2752-56	56	104
63	Efficient ablation of genes in human hematopoietic stem and effector cells using CRISPR/Cas9. <i>Cell Stem Cell</i> , <b>2014</b> , 15, 643-52	18	324
62	Cryptic and complex chromosomal aberrations in early-onset neuropsychiatric disorders. <i>American Journal of Human Genetics</i> , <b>2014</b> , 95, 454-61	11	37
61	Low incidence of off-target mutations in individual CRISPR-Cas9 and TALEN targeted human stem cell clones detected by whole-genome sequencing. <i>Cell Stem Cell</i> , <b>2014</b> , 15, 27-30	18	394
60	CHD8 regulates neurodevelopmental pathways associated with autism spectrum disorder in neural progenitors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, E4468-77	11.5	210
59	Transcriptional consequences of 16p11.2 deletion and duplication in mouse cortex and multiplex autism families. <i>American Journal of Human Genetics</i> , <b>2014</b> , 94, 870-83	11	78
58	Reciprocal deletion and duplication at 2q23.1 indicates a role for MBD5 in autism spectrum disorder. <i>European Journal of Human Genetics</i> , <b>2014</b> , 22, 57-63	5.3	29
57	Genomic and functional overlap between somatic and germline chromosomal rearrangements. <i>Cell Reports</i> , <b>2014</b> , 9, 2001-10	10.6	18
56	Autism spectrum disorder genetics: diverse genes with diverse clinical outcomes. <i>Harvard Review of Psychiatry</i> , <b>2014</b> , 22, 65-75	4.1	48
55	Lack of association of rare functional variants in TSC1/TSC2 genes with autism spectrum disorder. <i>Molecular Autism</i> , <b>2013</b> , 4, 5	6.5	9
54	Haploinsufficiency of KDM6A is associated with severe psychomotor retardation, global growth restriction, seizures and cleft palate. <i>Human Genetics</i> , <b>2013</b> , 132, 537-52	6.3	48
53	Mosaic copy number variation in schizophrenia. <i>European Journal of Human Genetics</i> , <b>2013</b> , 21, 1007-11	5.3	10
52	Molecular analysis of a deletion hotspot in the NRXN1 region reveals the involvement of short inverted repeats in deletion CNVs. <i>American Journal of Human Genetics</i> , <b>2013</b> , 92, 375-86	11	38
51	Mechanisms for Structural Variation in the Human Genome. <i>Current Genetic Medicine Reports</i> , <b>2013</b> , 1, 81-90	2.2	18
50	Exonic deletions in AUTS2 cause a syndromic form of intellectual disability and suggest a critical role for the C terminus. <i>American Journal of Human Genetics</i> , <b>2013</b> , 92, 210-20	11	108
49	Haploinsufficiency of SOX5 at 12p12.1 is associated with developmental delays with prominent language delay, behavior problems, and mild dysmorphic features. <i>Human Mutation</i> , <b>2012</b> , 33, 728-40	4.7	62
48	The cell adhesion gene PVRL3 is associated with congenital ocular defects. <i>Human Genetics</i> , <b>2012</b> , 131, 235-50	6.3	41
47	Highly penetrant alterations of a critical region including BDNF in human psychopathology and obesity. <i>Archives of General Psychiatry</i> , <b>2012</b> , 69, 1238-46		16

46	Clinical diagnosis by whole-genome sequencing of a prenatal sample. <i>New England Journal of Medicine</i> , <b>2012</b> , 367, 2226-32	59.2	144
45	Complex reorganization and predominant non-homologous repair following chromosomal breakage in karyotypically balanced germline rearrangements and transgenic integration. <i>Nature Genetics</i> , <b>2012</b> , 44, 390-7, S1	36.3	190
44	KCTD13 is a major driver of mirrored neuroanatomical phenotypes of the 16p11.2 copy number variant. <i>Nature</i> , <b>2012</b> , 485, 363-7	50.4	281
43	Translocations disrupting PHF21A in the Potocki-Shaffer-syndrome region are associated with intellectual disability and craniofacial anomalies. <i>American Journal of Human Genetics</i> , <b>2012</b> , 91, 56-72	11	42
42	Sequencing chromosomal abnormalities reveals neurodevelopmental loci that confer risk across diagnostic boundaries. <i>Cell</i> , <b>2012</b> , 149, 525-37	56.2	441
41	Disruption of a large intergenic noncoding RNA in subjects with neurodevelopmental disabilities. <i>American Journal of Human Genetics</i> , <b>2012</b> , 91, 1128-34	11	53
40	Genetic associations between neuregulin-1 SNPs and neurocognitive function in multigenerational, multiplex schizophrenia families. <i>Psychiatric Genetics</i> , <b>2012</b> , 22, 70-81	2.9	19
39	Next-generation sequencing strategies enable routine detection of balanced chromosome rearrangements for clinical diagnostics and genetic research. <i>American Journal of Human Genetics</i> , <b>2011</b> , 88, 469-81	11	132
38	Assessment of 2q23.1 microdeletion syndrome implicates MBD5 as a single causal locus of intellectual disability, epilepsy, and autism spectrum disorder. <i>American Journal of Human Genetics</i> , <b>2011</b> , 89, 551-63	11	166
37	RGS4 polymorphisms associated with variability of cognitive performance in a family-based schizophrenia sample. <i>Schizophrenia Bulletin</i> , <b>2010</b> , 36, 983-90	1.3	15
36	Functional analysis of upstream common polymorphisms of the dopamine transporter gene. <i>Schizophrenia Bulletin</i> , <b>2010</b> , 36, 977-82	1.3	9
35	Fine-mapping reveals novel alternative splicing of the dopamine transporter. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , <b>2010</b> , 153B, 1434-47	3.5	16
34	Convergent patterns of association between phenylalanine hydroxylase variants and schizophrenia in four independent samples. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , <b>2009</b> , 150B, 560-9	3.5	12
33	Consanguinity associated with increased risk for bipolar I disorder in Egypt. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , <b>2009</b> , 150B, 879-85	3.5	23
32	Association study of 21 circadian genes with bipolar I disorder, schizoaffective disorder, and schizophrenia. <i>Bipolar Disorders</i> , <b>2009</b> , 11, 701-10	3.8	120
31	Systematic association studies of mitochondrial DNA variations in schizophrenia: focus on the ND5 gene. <i>Schizophrenia Bulletin</i> , <b>2008</b> , 34, 458-65	1.3	15
30	A network of dopaminergic gene variations implicated as risk factors for schizophrenia. <i>Human Molecular Genetics</i> , <b>2008</b> , 17, 747-58	5.6	120
29	Linkage disequilibrium patterns and functional analysis of RGS4 polymorphisms in relation to schizophrenia. <i>Schizophrenia Bulletin</i> , <b>2008</b> , 34, 118-26	1.3	29

28	Dopamine genes and schizophrenia: case closed or evidence pending?. <i>Schizophrenia Bulletin</i> , <b>2007</b> , 33, 1071-81	1.3	33
27	Can RGS4 polymorphisms be viewed as credible risk factors for schizophrenia? A critical review of the evidence. <i>Schizophrenia Bulletin</i> , <b>2006</b> , 32, 203-8	1.3	18
26	Evaluation of a susceptibility gene for schizophrenia: genotype based meta-analysis of RGS4 polymorphisms from thirteen independent samples. <i>Biological Psychiatry</i> , <b>2006</b> , 60, 152-62	7.9	80
25	Novel, replicated associations between dopamine D3 receptor gene polymorphisms and schizophrenia in two independent samples. <i>Biological Psychiatry</i> , <b>2006</b> , 60, 570-7	7.9	53
24	A comprehensive genetic association and functional study of TNF in schizophrenia risk. <i>Schizophrenia Research</i> , <b>2006</b> , 83, 7-13	3.6	21
23	Serotonin gene polymorphisms and bipolar I disorder: focus on the serotonin transporter. <i>Annals of Medicine</i> , <b>2005</b> , 37, 590-602	1.5	37
22	Cognitive influences in postural control of patients with unilateral vestibular loss. <i>Gait and Posture</i> , <b>2004</b> , 19, 105-14	2.6	89
21	The Role of Attention in Vestibular Processing. <i>Proceedings of the Human Factors and Ergonomics Society</i> , <b>2002</b> , 46, 255-259	0.4	1
20	Rare coding variation illuminates the allelic architecture, risk genes, cellular expression patterns, and phenotypic context of autism		4
19	Prioritization of genes driving congenital phenotypes of patients with de novo genomic structural variants		1
18	Systematic evaluation of genome sequencing as a first-tier diagnostic test for prenatal and pediatric disorders		2
17	CNView: a visualization and annotation tool for copy number variation from whole-genome sequencing		9
16	Limited contribution of rare, noncoding variation to autism spectrum disorder from sequencing of 2,076 genomes in quartet families		6
15	Mapping and phasing of structural variation in patient genomes using nanopore sequencing		6
14	Multi-platform discovery of haplotype-resolved structural variation in human genomes		26
13	Expectations and blind spots for structural variation detection from short-read alignment and long-read assembly		3
12	Parallelized engineering of mutational models using piggyBac transposon delivery of CRISPR libraries		2
11	De novo structural mutation rates and gamete-of-origin biases revealed through genome sequencing of 2,396 families		1

10	De novo assembly of 64 haplotype-resolved human genomes of diverse ancestry and integrated analysis of structural variation	3
9	Genome-Encoded Cytoplasmic Double-Stranded RNAs, Found in C9ORF72 ALS-FTD Brain, Provoke Propagated Neuronal Death	4
8	Large-scale exome sequencing study implicates both developmental and functional changes in the neurobiology of autism	21
7	The mutational constraint spectrum quantified from variation in 141,456 humans	381
6	An open resource of structural variation for medical and population genetics	33
5	SYCP2 translocation-mediated dysregulation and frameshift variants cause human male infertility	3
4	Functional annotation of rare structural variation in the human brain	3
3	The female protective effect against autism spectrum disorder	3
2	A cross-disorder dosage sensitivity map of the human genome	5
1	High coverage whole genome sequencing of the expanded 1000 Genomes Project cohort including 602 trios	31