Thomas Bourgeron

List of Publications by Year
in descending order

91	13,698	76031	49824
papers	citations	42 h-index	91 g-index

111	111	111	16759
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phelan-McDermid syndrome: a classification system after 30Âyears of experience. Orphanet Journal of Rare Diseases, 2022, 17, 27.	1.2	32
2	The Synaptic Gene Study: Design and Methodology to Identify Neurocognitive Markers in Phelan-McDermid Syndrome and NRXN1 Deletions. Frontiers in Neuroscience, 2022, 16, 806990.	1.4	2
3	Insights from an autism imaging biomarker challenge: Promises and threats to biomarker discovery. NeuroImage, 2022, 255, 119171.	2.1	24
4	Genetic correlates of phenotypic heterogeneity in autism. Nature Genetics, 2022, 54, 1293-1304.	9.4	51
5	Genome-wide association study reveals new insights into the heritability and genetic correlates of developmental dyslexia. Molecular Psychiatry, 2021, 26, 3004-3017.	4.1	56
6	HyPyP: a Hyperscanning Python Pipeline for inter-brain connectivity analysis. Social Cognitive and Affective Neuroscience, 2021, 16, 72-83.	1.5	46
7	Effect Sizes of Deletions and Duplications on Autism Risk Across the Genome. American Journal of Psychiatry, 2021, 178, 87-98.	4.0	50
8	Decreased phenol sulfotransferase activities associated with hyperserotonemia in autism spectrum disorders. Translational Psychiatry, 2021, 11, 23.	2.4	11
9	Imbalanced social-communicative and restricted repetitive behavior subtypes of autism spectrum disorder exhibit different neural circuitry. Communications Biology, 2021, 4, 574.	2.0	17
10	Operative list of genes associated with autism and neurodevelopmental disorders based on database review. Molecular and Cellular Neurosciences, 2021, 113, 103623.	1.0	51
11	Testosterone Increases the Emission of Ultrasonic Vocalizations With Different Acoustic Characteristics in Mice. Frontiers in Psychology, 2021, 12, 680176.	1.1	8
12	Discriminant value of repetitive behaviors in families with autism spectrum disorder and obsessional compulsive disorder probands. Autism Research, 2021, 14, 2373-2382.	2.1	2
13	Massâ€spectrometry analysis of the human pineal proteome during night and day and in autism. Journal of Pineal Research, 2021, 70, e12713.	3.4	4
14	Genome-wide analysis of gene dosage in 24,092 individuals estimates that 10,000 genes modulate cognitive ability. Molecular Psychiatry, 2021, 26, 2663-2676.	4.1	33
15	Systematic detection of brain protein-coding genes under positive selection during primate evolution and their roles in cognition. Genome Research, 2021, 31, 484-496.	2.4	25
16	LMT USV Toolbox, a Novel Methodological Approach to Place Mouse Ultrasonic Vocalizations in Their Behavioral Contextsâ€"A Study in Female and Male C57BL/6J Mice and in Shank3 Mutant Females. Frontiers in Behavioral Neuroscience, 2021, 15, 735920.	1.0	17
17	A recurrent SHANK3 frameshift variant in Autism Spectrum Disorder. Npj Genomic Medicine, 2021, 6, 91.	1.7	9
18	The meaning of significant mean group differences for biomarker discovery. PLoS Computational Biology, 2021, 17, e1009477.	1.5	26

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19	Mutations associated with neuropsychiatric conditions delineate functional brain connectivity dimensions contributing to autism and schizophrenia. Nature Communications, 2020, 11, 5272.	5.8	35
20	Fractionating autism based on neuroanatomical normative modeling. Translational Psychiatry, 2020, 10, 384.	2.4	40
21	Dissecting the phenotypic heterogeneity in sensory features in autism spectrum disorder: a factor mixture modelling approach. Molecular Autism, 2020, 11, 67.	2.6	32
22	A chimeric mouse model to study human iPSC-derived neurons: the case of a truncating SHANK3 mutation. Scientific Reports, 2020, 10, 13315.	1.6	7
23	Insufficient Evidence for â€œAutism-Specificâ€•Genes. American Journal of Human Genetics, 2020, 106, 587-595.	2.6	110
24	Autism-associated SHANK3 mutations impair maturation of neuromuscular junctions and striated muscles. Science Translational Medicine, 2020, 12, .	5.8	38
25	The role of rare compound heterozygous events in autism spectrum disorder. Translational Psychiatry, 2020, 10, 204.	2.4	2
26	Editorial: Shankopathies: Shank Protein Deficiency-Induced Synaptic Diseases. Frontiers in Molecular Neuroscience, 2020, 13, 11.	1.4	9
27	Polygenic Architecture of Human Neuroanatomical Diversity. Cerebral Cortex, 2020, 30, 2307-2320.	1.6	16
28	Interactive Psychometrics for Autism With the Human Dynamic Clamp: Interpersonal Synchrony From Sensorimotor to Sociocognitive Domains. Frontiers in Psychiatry, 2020, 11, 510366.	1.3	7
29	Dlx5 and Dlx6 expression in GABAergic neurons controls behavior, metabolism, healthy aging and lifespan. Aging, 2019, 11, 6638-6656.	1.4	25
30	Social and non-social autism symptoms and trait domains are genetically dissociable. Communications Biology, 2019, 2, 328.	2.0	57
31	The functional database of the ARCHI project: Potential and perspectives. NeuroImage, 2019, 197, 527-543.	2.1	6
32	Real-time analysis of the behaviour of groups of mice via a depth-sensing camera and machine learning. Nature Biomedical Engineering, 2019, 3, 930-942.	11.6	112
33	Mutations in ACTL6B Cause Neurodevelopmental Deficits and Epilepsy and Lead to Loss of Dendrites in Human Neurons. American Journal of Human Genetics, 2019, 104, 815-834.	2.6	59
34	Morning Plasma Melatonin Differences in Autism: Beyond the Impact of Pineal Gland Volume. Frontiers in Psychiatry, 2019, 10, 11.	1.3	21
35	Genome-wide association scan identifies new variants associated with a cognitive predictor of dyslexia. Translational Psychiatry, 2019, 9, 77.	2.4	82
36	Unstable TTTTA/TTTCA expansions in MARCH6 are associated with Familial Adult Myoclonic Epilepsy type 3. Nature Communications, 2019, 10, 4919.	5.8	111

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37	Synesthesia & autistic features in a large family: Evidence for spatial imagery as a common factor. Behavioural Brain Research, 2019, 362, 266-272.	1.2	7
38	Altered spinogenesis in iPSC-derived cortical neurons from patients with autism carrying de novo SHANK3 mutations. Scientific Reports, 2019, 9, 94.	1.6	51
39	Altered Connectivity Between Cerebellum, Visual, and Sensory-Motor Networks in Autism Spectrum Disorder: Results from the EU-AIMS Longitudinal European Autism Project. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2019, 4, 260-270.	1.1	82
40	Increased risk of ADHD in families with ASD. European Child and Adolescent Psychiatry, 2019, 28, 281-288.	2.8	19
41	Homozygous 2p11.2 deletion supports the implication of ELMOD3 in hearing loss and reveals the potential association of CAPG with ASD/ID etiology. Journal of Applied Genetics, 2019, 60, 49-56.	1.0	11
42	Measuring and Estimating the Effect Sizes of Copy Number Variants on General Intelligence in Community-Based Samples. JAMA Psychiatry, 2018, 75, 447.	6.0	77
43	Genome-wide analyses of self-reported empathy: correlations with autism, schizophrenia, and anorexia nervosa. Translational Psychiatry, 2018, 8, 35.	2.4	95
44	Cerebellar Volume in Autism: Literature Meta-analysis and Analysis of the Autism BrainÂImaging Data Exchange Cohort. Biological Psychiatry, 2018, 83, 579-588.	0.7	59
45	Alpha Waves as a Neuromarker of Autism Spectrum Disorder: The Challenge of Reproducibility and Heterogeneity. Frontiers in Neuroscience, 2018, 12, 662.	1.4	37
46	Shank2 Mutant Mice Display Hyperactivity Insensitive to Methylphenidate and Reduced Flexibility in Social Motivation, but Normal Social Recognition. Frontiers in Molecular Neuroscience, 2018, 11, 365.	1.4	21
47	Association of modifiers and other genetic factors explain Marfan syndrome clinical variability. European Journal of Human Genetics, 2018, 26, 1759-1772.	1.4	73
48	The role of cholesterol metabolism and various steroid abnormalities in autism spectrum disorders: A hypothesis paper. Autism Research, 2017, 10, 1022-1044.	2.1	58
49	Disruption of melatonin synthesis is associated with impaired 14-3-3 and miR-451 levels in patients with autism spectrum disorders. Scientific Reports, 2017, 7, 2096.	1.6	83
50	Anatomy and Cell Biology of Autism Spectrum Disorder: Lessons from Human Genetics. Advances in Anatomy, Embryology and Cell Biology, 2017, 224, 1-25.	1.0	10
51	Behavioural Phenotypes and Neural Circuit Dysfunctions in Mouse Models of Autism Spectrum Disorder. Advances in Anatomy, Embryology and Cell Biology, 2017, 224, 85-101.	1.0	21
52	Zinc deficiency and low enterocyte zinc transporter expression in human patients with autism related mutations in SHANK3. Scientific Reports, 2017, 7, 45190.	1.6	56
53	The EU-AIMS Longitudinal European Autism Project (LEAP): design and methodologies to identify and validate stratification biomarkers for autism spectrum disorders. Molecular Autism, 2017, 8, 24.	2.6	183
54	The EU-AIMS Longitudinal European Autism Project (LEAP): clinical characterisation. Molecular Autism, 2017, 8, 27.	2.6	126

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55	Gender differences in autism spectrum disorders: Divergence among specific core symptoms. Autism Research, 2017, 10, 680-689.	2.1	140
56	Lack of replication of previous autism spectrum disorder GWAS hits in European populations. Autism Research, 2017, 10, 202-211.	2.1	34
57	Heritability of the melatonin synthesis variability in autism spectrum disorders. Scientific Reports, 2017, 7, 17746.	1.6	28
58	A framework to identify contributing genes in patients with Phelan-McDermid syndrome. Npj Genomic Medicine, 2017, 2, 32.	1.7	58
59	mouseTube â€“ a database to collaboratively unravel mouse ultrasonic communication. F1000Research, 2016, 5, 2332.	0.8	23
60	Human Pluripotent Stem Cell-derived Cortical Neurons for High Throughput Medication Screening in Autism: A Proof of Concept Study in SHANK3 Haploinsufficiency Syndrome. EBioMedicine, 2016, 9, 293-305.	2.7	79
61	Recording Mouse Ultrasonic Vocalizations to Evaluate Social Communication. Journal of Visualized Experiments, 2016, , .	0.2	47
62	Current knowledge on the genetics of autism and propositions for future research. Comptes Rendus - Biologies, 2016, 339, 300-307.	0.1	97
63	Identification and validation of biomarkers for autism spectrum disorders. Nature Reviews Drug Discovery, 2016, 15, 70-70.	21.5	117
64	The genetics and neurobiology of ESSENCE: The third Birgit Olsson lecture. Nordic Journal of Psychiatry, 2016, 70, 1-9.	0.7	16
65	A de novo microdeletion of SEMA5A in a boy with autism spectrum disorder and intellectual disability. European Journal of Human Genetics, 2016, 24, 838-843.	1.4	40
66	Three-dimensional Quantification of Dendritic Spines from Pyramidal Neurons Derived from Human Induced Pluripotent Stem Cells. Journal of Visualized Experiments, 2015, , .	0.2	6
67	11q24.2â€25 microâ€rearrangements in autism spectrum disorders: Relation to brain structures. American Journal of Medical Genetics, Part A, 2015, 167, 3019-3030.	0.7	25
68	Social Communication in Mice â€“ Are There Optimal Cage Conditions?. PLoS ONE, 2015, 10, e0121802.	1.1	15
69	Neuroanatomical Diversity of Corpus Callosum and Brain Volume in Autism: Meta-analysis, Analysis of the Autism Brain Imaging Data Exchange Project, and Simulation. Biological Psychiatry, 2015, 78, 126-134.	0.7	108
70	From the genetic architecture to synaptic plasticity in autism spectrum disorder. Nature Reviews Neuroscience, 2015, 16, 551-563.	4.9	764
71	Genetic and Environmental Influences on the Visual Word Form and Fusiform Face Areas. Cerebral Cortex, 2015, 25, 2478-2493.	1.6	54
72	Meta-analysis of SHANK Mutations in Autism Spectrum Disorders: A Gradient of Severity in Cognitive Impairments. PLoS Genetics, 2014, 10, e1004580.	1.5	501

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73	Convergence of Genes and Cellular Pathways Dysregulated in Autism Spectrum Disorders. American Journal of Human Genetics, 2014, 94, 677-694.	2.6	819
74	Heterogeneous Pattern of Selective Pressure for PRRT2 in Human Populations, but No Association with Autism Spectrum Disorders. PLoS ONE, 2014, 9, e88600.	1.1	14
75	Crystal structure and functional mapping of human ASMT, the last enzyme of the melatonin synthesis pathway. Journal of Pineal Research, 2013, 54, 46-57.	3.4	51
76	The Genetic Landscapes of Autism Spectrum Disorders. Annual Review of Genomics and Human Genetics, 2013, 14, 191-213.	2.5	352
77	Progress toward treatments for synaptic defects in autism. Nature Medicine, 2013, 19, 685-694.	15.2	167
78	Sequencing ASMT Identifies Rare Mutations in Chinese Han Patients with Autism. PLoS ONE, 2013, 8, e53727.	1.1	26
79	Genetic and Functional Analyses of SHANK2 Mutations Suggest a Multiple Hit Model of Autism Spectrum Disorders. PLoS Genetics, 2012, 8, e1002521.	1.5	358
80	Autistic-like behaviours and hyperactivity in mice lacking ProSAP1/Shank2. Nature, 2012, 486, 256-260.	13.7	570
81	SHANK1 Deletions in Males with Autism Spectrum Disorder. American Journal of Human Genetics, 2012, 90, 879-887.	2.6	292
82	Adult Male Mice Emit Context-Specific Ultrasonic Vocalizations That Are Modulated by Prior Isolation or Group Rearing Environment. PLoS ONE, 2012, 7, e29401.	1.1	154
83	Dynamics in enzymatic protein complexes offer a novel principle for the regulation of melatonin synthesis in the human pineal gland. Journal of Pineal Research, 2011, 51, 145-155.	3.4	45
84	Behavioral profiles of mouse models for autism spectrum disorders. Autism Research, 2011, 4, 5-16.	2.1	133
85	Key role for gene dosage and synaptic homeostasis in autism spectrum disorders. Trends in Genetics, 2010, 26, 363-372.	2.9	296
86	Reduced 3â€Oâ€methylâ€dopa levels in OCD patients and their unaffected parents is associated with the low activity M158 COMT allele. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics, 2010, 153B, 542-548.	1.1	3
87	Functional impact of global rare copy number variation in autism spectrum disorders. Nature, 2010, 466, 368-372.	13.7	1,803
88	A synaptic trek to autism. Current Opinion in Neurobiology, 2009, 19, 231-234.	2.0	596
89	Mutations in the gene encoding the synaptic scaffolding protein SHANK3 are associated with autism spectrum disorders. Nature Genetics, 2007, 39, 25-27.	9.4	1,408
90	Searching for ways out of the autism maze: genetic, epigenetic and environmental clues. Trends in Neurosciences, 2006, 29, 349-358.	4.2	498

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91	Mutations of the X-linked genes encoding neuroligins NLGN3 and NLGN4 are associated with autism. Nature Genetics, 2003, 34, 27-29.	9.4	1,612