

# Roberto Toro

## List of Publications by Year in descending order

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Version: 2024-02-01

103  
papers

15,615  
citations

46984

47  
h-index

33869

99  
g-index

138  
all docs

138  
docs citations

138  
times ranked

20510  
citing authors

#	ARTICLE	IF	CITATIONS
1	Correspondence of the brain's functional architecture during activation and rest. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13040-13045.	3.3	4,636
2	Common genetic variants influence human subcortical brain structures. Nature, 2015, 520, 224-229.	13.7	772
3	The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. Brain Imaging and Behavior, 2014, 8, 153-182.	1.1	696
4	Identification of common variants associated with human hippocampal and intracranial volumes. Nature Genetics, 2012, 44, 552-561.	9.4	594
5	Autistic-like behaviours and hyperactivity in mice lacking ProSAP1/Shank2. Nature, 2012, 486, 256-260.	13.7	570
6	Brain charts for the human lifespan. Nature, 2022, 604, 525-533.	13.7	518
7	Meta-analysis of SHANK Mutations in Autism Spectrum Disorders: A Gradient of Severity in Cognitive Impairments. PLoS Genetics, 2014, 10, e1004580.	1.5	501
8	Enhancing studies of the connectome in autism using the autism brain imaging data exchange II. Scientific Data, 2017, 4, 170010.	2.4	422
9	Functional Coactivation Map of the Human Brain. Cerebral Cortex, 2008, 18, 2553-2559.	1.6	370
10	Genetic and Functional Analyses of SHANK2 Mutations Suggest a Multiple Hit Model of Autism Spectrum Disorders. PLoS Genetics, 2012, 8, e1002521.	1.5	358
11	A convergent functional architecture of the insula emerges across imaging modalities. NeuroImage, 2012, 61, 1129-1142.	2.1	351
12	Key role for gene dosage and synaptic homeostasis in autism spectrum disorders. Trends in Genetics, 2010, 26, 363-372.	2.9	296
13	A Morphogenetic Model for the Development of Cortical Convolutions. Cerebral Cortex, 2005, 15, 1900-1913.	1.6	295
14	Novel genetic loci associated with hippocampal volume. Nature Communications, 2017, 8, 13624.	5.8	250
15	Novel genetic loci underlying human intracranial volume identified through genome-wide association. Nature Neuroscience, 2016, 19, 1569-1582.	7.1	213
16	Brain Size and Folding of the Human Cerebral Cortex. Cerebral Cortex, 2008, 18, 2352-2357.	1.6	209
17	Genetic architecture of subcortical brain structures in 38,851 individuals. Nature Genetics, 2019, 51, 1624-1636.	9.4	192
18	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

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19	ENIGMA and the individual: Predicting factors that affect the brain in 35 countries worldwide. <i>NeuroImage</i> , 2017, 145, 389-408.	2.1	173
20	Progress toward treatments for synaptic defects in autism. <i>Nature Medicine</i> , 2013, 19, 685-694.	15.2	167
21	Cortical Anatomy in Autism Spectrum Disorder: An In Vivo MRI Study on the Effect of Age. <i>Cerebral Cortex</i> , 2010, 20, 1332-1340.	1.6	151
22	Human subcortical brain asymmetries in 15,847 people worldwide reveal effects of age and sex. <i>Brain Imaging and Behavior</i> , 2017, 11, 1497-1514.	1.1	144
23	Prenatal Exposure to Maternal Cigarette Smoking and the Adolescent Cerebral Cortex. <i>Neuropsychopharmacology</i> , 2008, 33, 1019-1027.	2.8	130
24	The EU-AIMS Longitudinal European Autism Project (LEAP): clinical characterisation. <i>Molecular Autism</i> , 2017, 8, 27.	2.6	126
25	Cortical Gray Matter in Attention-Deficit/Hyperactivity Disorder: A Structural Magnetic Resonance Imaging Study. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2010, 49, 229-238.	0.3	125
26	Genes, maternal smoking, and the offspring brain and body during adolescence: Design of the Saguenay Youth Study. <i>Human Brain Mapping</i> , 2007, 28, 502-518.	1.9	113
27	Neuroanatomical Diversity of Corpus Callosum and Brain Volume in Autism: Meta-analysis, Analysis of the Autism Brain Imaging Data Exchange Project, and Simulation. <i>Biological Psychiatry</i> , 2015, 78, 126-134.	0.7	108
28	Genome-wide meta-analysis of cognitive empathy: heritability, and correlates with sex, neuropsychiatric conditions and cognition. <i>Molecular Psychiatry</i> , 2018, 23, 1402-1409.	4.1	102
29	Genome-wide analyses of self-reported empathy: correlations with autism, schizophrenia, and anorexia nervosa. <i>Translational Psychiatry</i> , 2018, 8, 35.	2.4	95
30	Orbitofrontal Cortex and Drug Use During Adolescence. <i>Archives of General Psychiatry</i> , 2009, 66, 1244.	13.8	93
31	Sex differences in brain structure: a twin study on restricted and repetitive behaviors in twin pairs with and without autism. <i>Molecular Autism</i> , 2020, 11, 1.	2.6	93
32	Accelerating the Evolution of Nonhuman Primate Neuroimaging. <i>Neuron</i> , 2020, 105, 600-603.	3.8	92
33	Accurate Anisotropic Fast Marching for Diffusion-Based Geodesic Tractography. <i>International Journal of Biomedical Imaging</i> , 2008, 2008, 1-12.	3.0	91
34	Investigating the factors underlying adaptive functioning in autism in the EU-AIMS Longitudinal European Autism Project. <i>Autism Research</i> , 2019, 12, 645-657.	2.1	87
35	Altered Connectivity Between Cerebellum, Visual, and Sensory-Motor Networks in Autism Spectrum Disorder: Results from the EU-AIMS Longitudinal European Autism Project. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2019, 4, 260-270.	1.1	82
36	Neural Mechanisms of Resistance to Peer Influence in Early Adolescence. <i>Journal of Neuroscience</i> , 2007, 27, 8040-8045.	1.7	77

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37	Measuring and Estimating the Effect Sizes of Copy Number Variants on General Intelligence in Community-Based Samples. <i>JAMA Psychiatry</i> , 2018, 75, 447.	6.0	77
38	Could sex differences in white matter be explained by g ratio?. <i>Frontiers in Neuroanatomy</i> , 2009, 3, 14.	0.9	73
39	2015 Brainhack Proceedings. <i>GigaScience</i> , 2016, 5, 1-26.	3.3	72
40	Brain volumes and Val66Met polymorphism of the BDNF gene: local or global effects?. <i>Brain Structure and Function</i> , 2009, 213, 501-509.	1.2	70
41	Larger is twistier: Spectral analysis of gyrification (SPANGY) applied to adult brain size polymorphism. <i>NeuroImage</i> , 2012, 63, 1257-1272.	2.1	69
42	Breastfeeding and brain structure in adolescence. <i>International Journal of Epidemiology</i> , 2013, 42, 150-159.	0.9	69
43	The Roots of Autism and ADHD Twin Study in Sweden (RATSS). <i>Twin Research and Human Genetics</i> , 2014, 17, 164-176.	0.3	62
44	Cerebellar Volume in Autism: Literature Meta-analysis and Analysis of the Autism Brain Imaging Data Exchange Cohort. <i>Biological Psychiatry</i> , 2018, 83, 579-588.	0.7	59
45	A framework to identify contributing genes in patients with Phelan-McDermid syndrome. <i>Npj Genomic Medicine</i> , 2017, 2, 32.	1.7	58
46	Single nucleotide polymorphism in the neuroplastin locus associates with cortical thickness and intellectual ability in adolescents. <i>Molecular Psychiatry</i> , 2015, 20, 263-274.	4.1	57
47	Social and non-social autism symptoms and trait domains are genetically dissociable. <i>Communications Biology</i> , 2019, 2, 328.	2.0	57
48	Evolution of neocortical folding: A phylogenetic comparative analysis of MRI from 34 primate species. <i>Cortex</i> , 2019, 118, 275-291.	1.1	54
49	Genetic variations of the melatonin pathway in patients with attention-deficit and hyperactivity disorders. <i>Journal of Pineal Research</i> , 2011, 51, 394-399.	3.4	52
50	Morphological properties of the action-observation cortical network in adolescents with low and high resistance to peer influence. <i>Social Neuroscience</i> , 2008, 3, 303-316.	0.7	51
51	Genomic architecture of human neuroanatomical diversity. <i>Molecular Psychiatry</i> , 2015, 20, 1011-1016.	4.1	50
52	Incomplete Hippocampal Inversion: A Comprehensive MRI Study of Over 2000 Subjects. <i>Frontiers in Neuroanatomy</i> , 2015, 9, 160.	0.9	47
53	Geometric atlas: modeling the cortex as an organized surface. <i>NeuroImage</i> , 2003, 20, 1468-1484.	2.1	45
54	Imaging evolution of the primate brain: the next frontier?. <i>NeuroImage</i> , 2021, 228, 117685.	2.1	43

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55	On the Possible Shapes of the Brain. <i>Evolutionary Biology</i> , 2012, 39, 600-612.	0.5	39
56	A functional polymorphism of the brain derived neurotrophic factor gene and cortical anatomy in autism spectrum disorder. <i>Journal of Neurodevelopmental Disorders</i> , 2009, 1, 215-223.	1.5	37
57	Alpha Waves as a Neuromarker of Autism Spectrum Disorder: The Challenge of Reproducibility and Heterogeneity. <i>Frontiers in Neuroscience</i> , 2018, 12, 662.	1.4	37
58	Neuroanatomical norms in the UK Biobank: The impact of allometric scaling, sex, and age. <i>Human Brain Mapping</i> , 2021, 42, 4623-4642.	1.9	37
59	Comparison between diffusion MRI tractography and histological tract-tracing of cortico-cortical structural connectivity in the ferret brain. <i>Network Neuroscience</i> , 2019, 3, 1038-1050.	1.4	36
60	Atypical Brain Asymmetry in Autism: A Candidate for Clinically Meaningful Stratification. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2021, 6, 802-812.	1.1	36
61	A collaborative resource platform for non-human primate neuroimaging. <i>NeuroImage</i> , 2021, 226, 117519.	2.1	36
62	KCTD8 Gene and Brain Growth in Adverse Intrauterine Environment: A Genome-wide Association Study. <i>Cerebral Cortex</i> , 2012, 22, 2634-2642.	1.6	35
63	Brainhack: a collaborative workshop for the open neuroscience community. <i>GigaScience</i> , 2016, 5, 16.	3.3	34
64	Sex Differences Along the Autism Continuum: A Twin Study of Brain Structure. <i>Cerebral Cortex</i> , 2019, 29, 1342-1350.	1.6	34
65	Simplified gyral pattern in severe developmental microcephalies? New insights from allometric modeling for spatial and spectral analysis of gyrification. <i>NeuroImage</i> , 2014, 102, 317-331.	2.1	32
66	Dissecting the phenotypic heterogeneity in sensory features in autism spectrum disorder: a factor mixture modelling approach. <i>Molecular Autism</i> , 2020, 11, 67.	2.6	32
67	Phelan-McDermid syndrome: a classification system after 30 years of experience. <i>Orphanet Journal of Rare Diseases</i> , 2022, 17, 27.	1.2	32
68	Role of mechanical morphogenesis in the development and evolution of the neocortex. <i>Physics of Life Reviews</i> , 2019, 31, 233-239.	1.5	30
69	Mechanical morphogenesis and the development of neocortical organisation. <i>Cortex</i> , 2019, 118, 315-326.	1.1	30
70	Resting State Networks' Corticotopy: The Dual Intertwined Rings Architecture. <i>PLoS ONE</i> , 2013, 8, e67444.	1.1	29
71	Variations of the Candidate SEZ6L2 Gene on Chromosome 16p11.2 in Patients with Autism Spectrum Disorders and in Human Populations. <i>PLoS ONE</i> , 2011, 6, e17289.	1.1	28
72	Brainhack: Developing a culture of open, inclusive, community-driven neuroscience. <i>Neuron</i> , 2021, 109, 1769-1775.	3.8	27

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73	The meaning of significant mean group differences for biomarker discovery. PLoS Computational Biology, 2021, 17, e1009477.	1.5	26
74	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
75	Sex differences in the brain are not reduced to differences in body size. Neuroscience and Biobehavioral Reviews, 2021, 130, 509-511.	2.9	24
76	Insights from an autism imaging biomarker challenge: Promises and threats to biomarker discovery. NeuroImage, 2022, 255, 119171.	2.1	24
77	Prenatal exposure to maternal cigarette smoking interacts with a polymorphism in the Î±6 nicotinic acetylcholine receptor gene to influence drug use and striatum volume in adolescence. Molecular Psychiatry, 2010, 15, 6-8.	4.1	22
78	Toward next-generation primate neuroscience: A collaboration-based strategic plan for integrative neuroimaging. Neuron, 2022, 110, 16-20.	3.8	22
79	Cortical Gray Matter in Attention-Deficit/Hyperactivity Disorder. Journal of the American Academy of Child and Adolescent Psychiatry, 2010, 49, 229-238.	0.3	21
80	Morning Plasma Melatonin Differences in Autism: Beyond the Impact of Pineal Gland Volume. Frontiers in Psychiatry, 2019, 10, 11.	1.3	21
81	Temporal Profiles of Social Attention Are Different Across Development in Autistic and Neurotypical People. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2021, 6, 813-824.	1.1	21
82	Associations of the Intellectual Disability Gene MYT1L with Helixâ€Loopâ€Helix Gene Expression, Hippocampus Volume and Hippocampus Activation During Memory Retrieval. Neuropsychopharmacology, 2017, 42, 2516-2526.	2.8	20
83	Resting state EEG power spectrum and functional connectivity in autism: a cross-sectional analysis. Molecular Autism, 2022, 13, 22.	2.6	20
84	CAMK2A polymorphisms predict working memory performance in humans. Molecular Psychiatry, 2013, 18, 850-852.	4.1	19
85	Global Genetic Variations Predict Brain Response to Faces. PLoS Genetics, 2014, 10, e1004523.	1.5	18
86	Polygenic Architecture of Human Neuroanatomical Diversity. Cerebral Cortex, 2020, 30, 2307-2320.	1.6	16
87	Open Neuroimaging Laboratory. Research Ideas and Outcomes, 0, 2, e9113.	1.0	16
88	The social brain in female autism: a structural imaging study of twins. Social Cognitive and Affective Neuroscience, 2020, 15, 423-436.	1.5	15
89	Centering inclusivity in the design of online conferencesâ€An OHBMâ€Open Science perspective. GigaScience, 2021, 10, .	3.3	14
90	Comparing brain asymmetries independently of brain size. NeuroImage, 2022, 254, 119118.	2.1	11

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91	Preference for biological motion is reduced in ASD: implications for clinical trials and the search for biomarkers. <i>Molecular Autism</i> , 2021, 12, 74.	2.6	10
92	Adjusting for allometric scaling in <scp>ABIDE</scp> I challenges subcortical volume differences in autism spectrum disorder. <i>Human Brain Mapping</i> , 2020, 41, 4610-4629.	1.9	8
93	Genome wide association study of incomplete hippocampal inversion in adolescents. <i>PLoS ONE</i> , 2020, 15, e0227355.	1.1	8
94	Fast surface-based measurements using first eigenfunction of the Laplace-Beltrami Operator: Interest for sulcal description. , 2012, , .		6
95	Statistical Shape Analysis of Large Datasets Based on Diffeomorphic Iterative Centroids. <i>Frontiers in Neuroscience</i> , 2018, 12, 803.	1.4	5
96	Neuroanatomy of dyslexia: An allometric approach. <i>European Journal of Neuroscience</i> , 2020, 52, 3595-3609.	1.2	5
97	Improving heritability estimation by a variable selection approach in sparse high dimensional linear mixed models. <i>Journal of the Royal Statistical Society Series C: Applied Statistics</i> , 2018, 67, 813-839.	0.5	4
98	Distributed collaboration: the case for the enhancement of Brainspellâ€™s interface. <i>GigaScience</i> , 2016, 5, .	3.3	3
99	Meta-analysis of functional imaging studies using a geometric model of the cortical surface. , 0, , .		0
100	<i>Neuropsychiatry</i> . , 2015, , 1049-1060.		0
101	Typical cerebellar allometry is disturbed in Fetal Alcohol Spectrum Disorders: Toward new MRI neuroanatomic markers. <i>European Journal of Paediatric Neurology</i> , 2017, 21, e11.	0.7	0
102	Reorient: A Web tool for reorienting and cropping MRI data.. <i>Journal of Open Source Software</i> , 2020, 5, 2670.	2.0	0
103	Dans le cerveau des autistes. , 2018, NÂ° 105, 54-58.		0