

# Susana Muñoz Maniega

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/88863/publications.pdf>

Version: 2024-02-01

115  
papers

8,022  
citations

70961

41  
h-index

58464

82  
g-index

134  
all docs

134  
docs citations

134  
times ranked

11619  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gene-mapping study of extremes of cerebral small vessel disease reveals TRIM47 as a strong candidate. <i>Brain</i> , 2022, 145, 1992-2007.	3.7	6
2	Blood-based epigenome-wide analyses of cognitive abilities. <i>Genome Biology</i> , 2022, 23, 26.	3.8	20
3	Contribution of white matter hyperintensities to ventricular enlargement in older adults. <i>NeuroImage: Clinical</i> , 2022, 34, 103019.	1.4	4
4	Ageing-Sensitive Networks Within the Human Structural Connectome Are Implicated in Late-Life Cognitive Declines. <i>Biological Psychiatry</i> , 2021, 89, 795-806.	0.7	23
5	Rationale and design of a longitudinal study of cerebral small vessel diseases, clinical and imaging outcomes in patients presenting with mild ischaemic stroke: Mild Stroke Study 3. <i>European Stroke Journal</i> , 2021, 6, 81-88.	2.7	17
6	Comparison of structural MRI brain measures between 1.5 and 3T: Data from the Lothian Birth Cohort 1936. <i>Human Brain Mapping</i> , 2021, 42, 3905-3921.	1.9	11
7	Early life predictors of late life cerebral small vessel disease in four prospective cohort studies. <i>Brain</i> , 2021, 144, 3769-3778.	3.7	21
8	Relationship between inferior frontal sulcal hyperintensities on brain MRI, ageing and cerebral small vessel disease. <i>Neurobiology of Aging</i> , 2021, 106, 130-138.	1.5	5
9	Birth weight is associated with brain tissue volumes seven decades later but not with MRI markers of brain ageing. <i>NeuroImage: Clinical</i> , 2021, 31, 102776.	1.4	14
10	DNA Methylation and Protein Markers of Chronic Inflammation and Their Associations With Brain and Cognitive Aging. <i>Neurology</i> , 2021, 97, e2340-e2352.	1.5	44
11	Perivascular spaces in the centrum semiovale at the beginning of the 8th decade of life: effect on cognition and associations with mineral deposition. <i>Brain Imaging and Behavior</i> , 2020, 14, 1865-1875.	1.1	19
12	Sleep and brain morphological changes in the eighth decade of life. <i>Sleep Medicine</i> , 2020, 65, 152-158.	0.8	27
13	Fluctuating asymmetry in brain structure and general intelligence in 73-year-olds. <i>Intelligence</i> , 2020, 78, 101407.	1.6	9
14	Computational quantification of brain perivascular space morphologies: Associations with vascular risk factors and white matter hyperintensities. A study in the Lothian Birth Cohort 1936. <i>NeuroImage: Clinical</i> , 2020, 25, 102120.	1.4	51
15	Dietary patterns, cognitive function, and structural neuroimaging measures of brain aging. <i>Experimental Gerontology</i> , 2020, 142, 111117.	1.2	23
16	Cerebral small vessel disease genomics and its implications across the lifespan. <i>Nature Communications</i> , 2020, 11, 6285.	5.8	89
17	Quantitative measurements of enlarged perivascular spaces in the brain are associated with retinal microvascular parameters in older community-dwelling subjects. <i>Cerebral Circulation - Cognition and Behavior</i> , 2020, 1, 100002.	0.4	6
18	Age-Related Changes of Peak Width Skeletonized Mean Diffusivity (PSMD) Across the Adult Lifespan: A Multi-Cohort Study. <i>Frontiers in Psychiatry</i> , 2020, 11, 342.	1.3	26

#	ARTICLE	IF	CITATIONS
19	Polygenic Architecture of Human Neuroanatomical Diversity. <i>Cerebral Cortex</i> , 2020, 30, 2307-2320.	1.6	16
20	Neurology-related protein biomarkers are associated with cognitive ability and brain volume in older age. <i>Nature Communications</i> , 2020, 11, 800.	5.8	42
21	Brain Peak Width of Skeletonized Mean Diffusivity (PSMD) and Cognitive Function in Later Life. <i>Frontiers in Psychiatry</i> , 2019, 10, 524.	1.3	33
22	Epigenetic signatures of smoking associate with cognitive function, brain structure, and mental and physical health outcomes in the Lothian Birth Cohort 1936. <i>Translational Psychiatry</i> , 2019, 9, 248.	2.4	34
23	Spatial Gradient of Microstructural Changes in Normal-Appearing White Matter in Tracts Affected by White Matter Hyperintensities in Older Age. <i>Frontiers in Neurology</i> , 2019, 10, 784.	1.1	30
24	A protocol for precise comparisons of small vessel disease lesions between ex vivo magnetic resonance imaging and histopathology. <i>International Journal of Stroke</i> , 2019, 14, 310-320.	2.9	14
25	Genetic and lifestyle risk factors for MRI-defined brain infarcts in a population-based setting. <i>Neurology</i> , 2019, 92, .	1.5	30
26	Reaction time variability and brain white matter integrity.. <i>Neuropsychology</i> , 2019, 33, 642-657.	1.0	6
27	Coupled changes in hippocampal structure and cognitive ability in later life. <i>Brain and Behavior</i> , 2018, 8, e00838.	1.0	21
28	Brain cortical characteristics of lifetime cognitive ageing. <i>Brain Structure and Function</i> , 2018, 223, 509-518.	1.2	44
29	Cognitive abilities, brain white matter hyperintensity volume, and structural network connectivity in older age. <i>Human Brain Mapping</i> , 2018, 39, 622-632.	1.9	41
30	Brain structural differences between 73- and 92-year olds matched for childhood intelligence, social background, and intracranial volume. <i>Neurobiology of Aging</i> , 2018, 62, 146-158.	1.5	11
31	Mapping cortical brain asymmetry in 17,141 healthy individuals worldwide via the ENIGMA Consortium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5154-E5163.	3.3	299
32	Reference Tracts and Generative Models for Brain White Matter Tractography. <i>Journal of Imaging</i> , 2018, 4, 8.	1.7	1
33	Longitudinal serum S100 $\beta$ and brain aging in the Lothian Birth Cohort 1936. <i>Neurobiology of Aging</i> , 2018, 69, 274-282.	1.5	13
34	Predictors of gait speed and its change over three years in community-dwelling older people. <i>Aging</i> , 2018, 10, 144-153.	1.4	19
35	Integrity of normal-appearing white matter: Influence of age, visible lesion burden and hypertension in patients with small-vessel disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 644-656.	2.4	147
36	Novel genetic loci associated with hippocampal volume. <i>Nature Communications</i> , 2017, 8, 13624.	5.8	250

#	ARTICLE	IF	CITATIONS
37	Impact of small vessel disease in the brain on gait and balance. <i>Scientific Reports</i> , 2017, 7, 41637.	1.6	86
38	Risk and protective factors for structural brain ageing in the eighth decade of life. <i>Brain Structure and Function</i> , 2017, 222, 3477-3490.	1.2	40
39	Brain grey and white matter predictors of verbal ability traits in older age: The Lothian Birth Cohort 1936. <i>NeuroImage</i> , 2017, 156, 394-402.	2.1	21
40	Associations between hippocampal morphology, diffusion characteristics, and salivary cortisol in older men. <i>Psychoneuroendocrinology</i> , 2017, 78, 151-158.	1.3	9
41	Interaction of APOE e4 and poor glycemic control predicts white matter hyperintensity growth from 73 to 76. <i>Neurobiology of Aging</i> , 2017, 54, 54-58.	1.5	20
42	Hippocampal morphology and cognitive functions in community-dwelling older people: the Lothian Birth Cohort 1936. <i>Neurobiology of Aging</i> , 2017, 52, 1-11.	1.5	14
43	Metric to quantify white matter damage on brain magnetic resonance images. <i>Neuroradiology</i> , 2017, 59, 951-962.	1.1	19
44	Sample size considerations for trials using cerebral white matter hyperintensity progression as an intermediate outcome at 1 year after mild stroke: results of a prospective cohort study. <i>Trials</i> , 2017, 18, 78.	0.7	16
45	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
46	Improved Reference Tracts for Unsupervised Brain White Matter Tractography. <i>Communications in Computer and Information Science</i> , 2017, , 425-435.	0.4	1
47	Trait conscientiousness and the personality meta-trait stability are associated with regional white matter microstructure. <i>Social Cognitive and Affective Neuroscience</i> , 2016, 11, 1255-1261.	1.5	18
48	On the computational assessment of white matter hyperintensity progression: difficulties in method selection and bias field correction performance on images with significant white matter pathology. <i>Neuroradiology</i> , 2016, 58, 475-485.	1.1	9
49	Application of the Ordered Logit Model to Optimising Frangi Filter Parameters for Segmentation of Perivascular Spaces. <i>Procedia Computer Science</i> , 2016, 90, 61-67.	1.2	28
50	Novel genetic loci underlying human intracranial volume identified through genome-wide association. <i>Nature Neuroscience</i> , 2016, 19, 1569-1582.	7.1	213
51	Associations between education and brain structure at age 73 years, adjusted for age 11 IQ. <i>Neurology</i> , 2016, 87, 1820-1826.	1.5	46
52	3D shape analysis of the brain's third ventricle using a midplane encoded symmetric template model. <i>Computer Methods and Programs in Biomedicine</i> , 2016, 129, 51-62.	2.6	2
53	Vascular risk factors and progression of white matter hyperintensities in the Lothian Birth Cohort 1936. <i>Neurobiology of Aging</i> , 2016, 42, 116-123.	1.5	72
54	Progression of White Matter Disease and Cortical Thinning Are Not Related in Older Community-Dwelling Subjects. <i>Stroke</i> , 2016, 47, 410-416.	1.0	35

#	ARTICLE	IF	CITATIONS
55	Blood pressure and sodium: Association with MRI markers in cerebral small vessel disease. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 264-274.	2.4	55
56	Brain white matter structure and information processing speed in healthy older age. <i>Brain Structure and Function</i> , 2016, 221, 3223-3235.	1.2	75
57	Structural Brain MRI Trait Polygenic Score Prediction of Cognitive Abilities. <i>Twin Research and Human Genetics</i> , 2015, 18, 738-745.	0.3	4
58	Rationale, design and methodology of the image analysis protocol for studies of patients with cerebral small vessel disease and mild stroke. <i>Brain and Behavior</i> , 2015, 5, e00415.	1.0	65
59	A Comparison of Location of Acute Symptomatic vs. "Silent" Small Vessel Lesions. <i>International Journal of Stroke</i> , 2015, 10, 1044-1050.	2.9	59
60	<i>APOE/TOMM40</i> Genetic Loci, White Matter Hyperintensities, and Cerebral Microbleeds. <i>International Journal of Stroke</i> , 2015, 10, 1297-1300.	2.9	15
61	Coupled Changes in Brain White Matter Microstructure and Fluid Intelligence in Later Life. <i>Journal of Neuroscience</i> , 2015, 35, 8672-8682.	1.7	97
62	Beyond a bigger brain: Multivariable structural brain imaging and intelligence. <i>Intelligence</i> , 2015, 51, 47-56.	1.6	101
63	Brain volumetric changes and cognitive ageing during the eighth decade of life. <i>Human Brain Mapping</i> , 2015, 36, 4910-4925.	1.9	79
64	Does white matter structure or hippocampal volume mediate associations between cortisol and cognitive ageing?. <i>Psychoneuroendocrinology</i> , 2015, 62, 129-137.	1.3	26
65	Brain white matter integrity and cortisol in older men: the Lothian Birth Cohort 1936. <i>Neurobiology of Aging</i> , 2015, 36, 257-264.	1.5	28
66	Brain iron deposits and lifespan cognitive ability. <i>Age</i> , 2015, 37, 100.	3.0	24
67	Association of allostatic load with brain structure and cognitive ability in later life. <i>Neurobiology of Aging</i> , 2015, 36, 1390-1399.	1.5	67
68	Genes From a Translational Analysis Support a Multifactorial Nature of White Matter Hyperintensities. <i>Stroke</i> , 2015, 46, 341-347.	1.0	33
69	White matter hyperintensities and normal-appearing white matter integrity in the aging brain. <i>Neurobiology of Aging</i> , 2015, 36, 909-918.	1.5	224
70	Childhood cognitive ability accounts for associations between cognitive ability and brain cortical thickness in old age. <i>Molecular Psychiatry</i> , 2014, 19, 555-559.	4.1	104
71	Potential effect of skull thickening on the associations between cognition and brain atrophy in ageing. <i>Age and Ageing</i> , 2014, 43, 712-716.	0.7	6
72	Circulating Inflammatory Markers Are Associated With Magnetic Resonance Imaging-Visible Perivascular Spaces But Not Directly With White Matter Hyperintensities. <i>Stroke</i> , 2014, 45, 605-607.	1.0	113

#	ARTICLE	IF	CITATIONS
73	The ENIGMA Consortium: large-scale collaborative analyses of neuroimaging and genetic data. <i>Brain Imaging and Behavior</i> , 2014, 8, 153-182.	1.1	696
74	Differentiation of calcified regions and iron deposits in the ageing brain on conventional structural MR images. <i>Journal of Magnetic Resonance Imaging</i> , 2014, 40, 324-333.	1.9	17
75	Quantitative multi-modal MRI of the Hippocampus and cognitive ability in community-dwelling older subjects. <i>Cortex</i> , 2014, 53, 34-44.	1.1	22
76	Morphologic, Distributional, Volumetric, and Intensity Characterization of Periventricular Hyperintensities. <i>American Journal of Neuroradiology</i> , 2014, 35, 55-62.	1.2	27
77	Alzheimer's disease susceptibility genes APOE and TOMM40, and brain white matter integrity in the Lothian Birth Cohort 1936. <i>Neurobiology of Aging</i> , 2014, 35, 1513.e25-1513.e33.	1.5	58
78	Personality, health, and brain integrity: The Lothian Birth Cohort Study 1936.. <i>Health Psychology</i> , 2014, 33, 1477-1486.	1.3	38
79	Brain atrophy associations with white matter lesions in the ageing brain: the Lothian Birth Cohort 1936. <i>European Radiology</i> , 2013, 23, 1084-1092.	2.3	71
80	ADRB2, brain white matter integrity and cognitive ageing in the Lothian Birth Cohort 1936. <i>Behavior Genetics</i> , 2013, 43, 13-23.	1.4	9
81	Brain white matter damage in aging and cognitive ability in youth and older age. <i>Neurobiology of Aging</i> , 2013, 34, 2740-2747.	1.5	83
82	Estimated maximal and current brain volume predict cognitive ability in old age. <i>Neurobiology of Aging</i> , 2013, 34, 2726-2733.	1.5	73
83	Influence of thickening of the inner skull table on intracranial volume measurement in older people. <i>Magnetic Resonance Imaging</i> , 2013, 31, 918-922.	1.0	20
84	Close Correlation between Quantitative and Qualitative Assessments of White Matter Lesions. <i>Neuroepidemiology</i> , 2013, 40, 13-22.	1.1	88
85	Neuroticism, depressive symptoms and white-matter integrity in the Lothian Birth Cohort 1936. <i>Psychological Medicine</i> , 2013, 43, 1197-1206.	2.7	27
86	Brain white matter tract integrity and cognitive abilities in community-dwelling older people: The Lothian Birth Cohort, 1936.. <i>Neuropsychology</i> , 2013, 27, 595-607.	1.0	34
87	Associations between Level and Change in Physical Function and Brain Volumes. <i>PLoS ONE</i> , 2013, 8, e80386.	1.1	19
88	Alzheimer's Disease Susceptibility Genes APOE and TOMM40, and Hippocampal Volumes in the Lothian Birth Cohort 1936. <i>PLoS ONE</i> , 2013, 8, e80513.	1.1	29
89	Identification of common variants associated with human hippocampal and intracranial volumes. <i>Nature Genetics</i> , 2012, 44, 552-561.	9.4	594
90	Brain iron deposits are associated with general cognitive ability and cognitive aging. <i>Neurobiology of Aging</i> , 2012, 33, 510-517.e2.	1.5	104

#	ARTICLE	IF	CITATIONS
91	A genome-wide search for genetic influences and biological pathways related to the brain's white matter integrity. <i>Neurobiology of Aging</i> , 2012, 33, 1847.e1-1847.e14.	1.5	37
92	Brain-wide white matter tract integrity is associated with information processing speed and general intelligence. <i>Molecular Psychiatry</i> , 2012, 17, 955-955.	4.1	24
93	A systematic review of the utility of 1.5 versus 3 Tesla magnetic resonance brain imaging in clinical practice and research. <i>European Radiology</i> , 2012, 22, 2295-2303.	2.3	75
94	Neuroprotective lifestyles and the aging brain. <i>Neurology</i> , 2012, 79, 1802-1808.	1.5	168
95	Brain white matter tract integrity as a neural foundation for general intelligence. <i>Molecular Psychiatry</i> , 2012, 17, 1026-1030.	4.1	282
96	Automatic segmentation of brain white matter and white matter lesions in normal aging: comparison of five multispectral techniques. <i>Magnetic Resonance Imaging</i> , 2012, 30, 222-229.	1.0	24
97	Color Fusion of Magnetic Resonance Images Improves Intracranial Volume Measurement in Studies of Aging. <i>Open Journal of Radiology</i> , 2012, 02, 1-9.	0.1	16
98	Brain Aging, Cognition in Youth and Old Age and Vascular Disease in the Lothian Birth Cohort 1936: Rationale, Design and Methodology of the Imaging Protocol. <i>International Journal of Stroke</i> , 2011, 6, 547-559.	2.9	188
99	P1-58 The volumetric measurement of brain imaging biomarkers for epidemiological studies can be misleading in the validation of image segmentation methods. <i>Journal of Epidemiology and Community Health</i> , 2011, 65, A82-A83.	2.0	0
100	<b>TractoR</b> : Magnetic Resonance Imaging and Tractography with <i>MRtrix</i> . <i>Journal of Statistical Software</i> , 2011, 44, .	1.8	72
101	White Matter Integrity in the Splenium of the Corpus Callosum is Related to Successful Cognitive Aging and Partly Mediates the Protective Effect of an Ancestral Polymorphism in ADRB2. <i>Behavior Genetics</i> , 2010, 40, 146-156.	1.4	35
102	A General Factor of Brain White Matter Integrity Predicts Information Processing Speed in Healthy Older People. <i>Journal of Neuroscience</i> , 2010, 30, 7569-7574.	1.7	297
103	Quantifying the effects of normal ageing on white matter structure using unsupervised tract shape modelling. <i>NeuroImage</i> , 2010, 51, 1-10.	2.1	57
104	Lacunar stroke is associated with diffuse blood-brain barrier dysfunction. <i>Annals of Neurology</i> , 2009, 65, 194-202.	2.8	295
105	The relationship of anterior thalamic radiation integrity to psychosis risk associated neuregulin-1 variants. <i>Molecular Psychiatry</i> , 2009, 14, 237-238.	4.1	44
106	White matter abnormalities in bipolar disorder and schizophrenia detected using diffusion tensor magnetic resonance imaging. <i>Bipolar Disorders</i> , 2009, 11, 11-18.	1.1	254
107	Reproducibility of tract segmentation between sessions using an unsupervised modelling-based approach. <i>NeuroImage</i> , 2009, 45, 377-385.	2.1	38
108	Effects of random subject rotation on optimised diffusion gradient sampling schemes in diffusion tensor MRI. <i>Magnetic Resonance Imaging</i> , 2008, 26, 451-460.	1.0	2

#	ARTICLE	IF	CITATIONS
109	The effects of a neuregulin 1 variant on white matter density and integrity. <i>Molecular Psychiatry</i> , 2008, 13, 1054-1059.	4.1	190
110	A diffusion tensor MRI study of white matter integrity in subjects at high genetic risk of schizophrenia. <i>Schizophrenia Research</i> , 2008, 106, 132-139.	1.1	96
111	White Matter Tractography in Bipolar Disorder and Schizophrenia. <i>Biological Psychiatry</i> , 2008, 64, 1088-1092.	0.7	237
112	Evidence of shared white matter disruption in bipolar disorder and schizophrenia. <i>European Psychiatry</i> , 2008, 23, S43.	0.1	0
113	Choline and Creatine Are Not Reliable Denominators for Calculating Metabolite Ratios in Acute Ischemic Stroke. <i>Stroke</i> , 2008, 39, 2467-2469.	1.0	41
114	A quantitative comparison of two methods to correct eddy current-induced distortions in DT-MRI. <i>Magnetic Resonance Imaging</i> , 2007, 25, 341-349.	1.0	11
115	Temporal evolution of water diffusion parameters is different in grey and white matter in human ischaemic stroke. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2004, 75, 1714-1718.	0.9	70