Maria C Marchetto

List of Publications by Year
in descending order

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37 papers	3,474 citations	257101 24 h-index	329751 37 g-index
38 all docs	38 docs citations	38 times ranked	5822 citing authors

#	Article	IF	Citations
1	Differential responses to lithium in hyperexcitable neurons from patients with bipolar disorder. Nature, 2015, 527, 95-99.	13.7	461
2	Altered proliferation and networks in neural cells derived from idiopathic autistic individuals. Molecular Psychiatry, 2017, 22, 820-835.	4.1	349
3	2D and 3D Stem Cell Models of Primate Cortical Development Identify Species-Specific Differences in Progenitor Behavior Contributing to Brain Size. Cell Stem Cell, 2016, 18, 467-480.	5.2	292
4	Evaluating cell reprogramming, differentiation and conversion technologies in neuroscience. Nature Reviews Neuroscience, 2016, 17, 424-437.	4.9	239
5	Mobile DNA elements in the generation of diversity and complexity in the brain. Nature Reviews Neuroscience, 2014, 15, 497-506.	4.9	230
6	Pathological priming causes developmental gene network heterochronicity in autistic subject-derived neurons. Nature Neuroscience, 2019, 22, 243-255.	7.1	209
7	A Quantitative Framework to Evaluate Modeling of Cortical Development by Neural Stem Cells. Neuron, 2014, 83, 69-86.	3.8	184
8	Induced pluripotent stem cells (iPSCs) and neurological disease modeling: progress and promises. Human Molecular Genetics, 2011, 20, R109-R115.	1.4	165
9	Differentiation of Inflammation-Responsive Astrocytes from Glial Progenitors Generated from Human Induced Pluripotent Stem Cells. Stem Cell Reports, 2017, 8, 1757-1769.	2.3	120
10	Efficient Generation of CA3 Neurons from Human Pluripotent Stem Cells Enables Modeling of Hippocampal Connectivity InÂVitro. Cell Stem Cell, 2018, 22, 684-697.e9.	5.2	118
11	Mitochondria, Metabolism, and Redox Mechanisms in Psychiatric Disorders. Antioxidants and Redox Signaling, 2019, 31, 275-317.	2.5	112
12	Modeling psychiatric disorders using patient stem cell-derived neurons: a way forward. Genome Medicine, 2018, 10, 1.	3.6	107
13	Species-specific maturation profiles of human, chimpanzee and bonobo neural cells. ELife, 2019, 8, .	2.8	94
14	Molecular Mechanisms of Bipolar Disorder: Progress Made and Future Challenges. Frontiers in Cellular Neuroscience, 2017, 11, 30.	1.8	73
15	An Epilepsy-Associated KCNT1 Mutation Enhances Excitability of Human iPSC-Derived Neurons by Increasing Slack K_{Na} Currents. Journal of Neuroscience, 2019, 39, 7438-7449.	1.7	70
16	Modeling Human Cytomegalovirus-Induced Microcephaly in Human iPSC-Derived Brain Organoids. Cell Reports Medicine, 2020, 1, 100002.	3.3	67
17	Altered serotonergic circuitry in SSRI-resistant major depressive disorder patient-derived neurons. Molecular Psychiatry, 2019, 24, 808-818.	4.1	66
18	Serotonin-induced hyperactivity in SSRI-resistant major depressive disorder patient-derived neurons. Molecular Psychiatry, 2019, 24, 795-807.	4.1	64

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19	Increased Neural Progenitor Proliferation in a hiPSC Model of Autism Induces Replication Stress-Associated Genome Instability. Cell Stem Cell, 2020, 26, 221-233.e6.	5.2	61
20	Prediction of response to drug therapy in psychiatric disorders. Open Biology, 2018, 8, 180031.	1.5	50
21	Deficient LEF1 expression is associated with lithium resistance and hyperexcitability in neurons derived from bipolar disorder patients. Molecular Psychiatry, 2021, 26, 2440-2456.	4.1	41
22	Conserved expression of transposon-derived non-coding transcripts in primate stem cells. BMC Genomics, 2017, 18, 214.	1.2	40
23	Mechanisms Underlying the Hyperexcitability of CA3 and Dentate Gyrus Hippocampal Neurons Derived From Patients With Bipolar Disorder. Biological Psychiatry, 2020, 88, 139-149.	0.7	39
24	Serotonin in psychiatry: in vitro disease modeling using patient-derived neurons. Cell and Tissue Research, 2018, 371, 161-170.	1.5	36
25	A Physiological Instability Displayed in Hippocampal Neurons Derived From Lithium-Nonresponsive Bipolar Disorder Patients. Biological Psychiatry, 2020, 88, 150-158.	0.7	28
26	Human-induced pluripotent stem cells pave the road for a better understanding of motor neuron disease. Human Molecular Genetics, 2014, 23, R27-R34.	1.4	21
27	Generating human serotonergic neurons in vitro: Methodological advances. BioEssays, 2016, 38, 1123-1129.	1.2	20
28	IGF-1 treatment causes unique transcriptional response in neurons from individuals with idiopathic autism. Molecular Autism, 2020, 11, 55.	2.6	20
29	Altered Neuronal Support and Inflammatory Response in Bipolar Disorder Patient-Derived Astrocytes. Stem Cell Reports, 2021, 16, 825-835.	2.3	20
30	Characterization of calcium signals in human induced pluripotent stem cell-derived dentate gyrus neuronal progenitors and mature neurons, stably expressing an advanced calcium indicator protein. Molecular and Cellular Neurosciences, 2018, 88, 222-230.	1.0	16
31	Synaptotagmin-7 is a key factor for bipolar-like behavioral abnormalities in mice. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4392-4399.	3.3	15
32	Dynamical Electrical Complexity Is Reduced during Neuronal Differentiation in Autism Spectrum Disorder. Stem Cell Reports, 2019, 13, 474-484.	2.3	13
33	Reaching into the toolbox: Stem cell models to study neuropsychiatric disorders. Stem Cell Reports, 2022, 17, 187-210.	2.3	13
34	Unraveling Human Brain Development and Evolution Using Organoid Models. Frontiers in Cell and Developmental Biology, 2021, 9, 737429.	1.8	9
35	Inositol monophosphatase 1 (IMPA1) mutation in intellectual disability patients impairs neurogenesis but not gliogenesis. Molecular Psychiatry, 2021, 26, 3558-3571.	4.1	8
36	Studying treatment resistance in depression using patient derived neurons in vitro. Molecular Psychiatry, 2019, 24, 775-775.	4.1	2

#	Article	IF	Citations
37	Generation of inflammation-responsive astrocytes from glial progenitors derived from human pluripotent stem cells. STAR Protocols, 2022, 3, 101261.	0.5	2