Patrizia Casaccia

List of Publications by Year
in descending order

94 papers	6,964 citations	61984 43 h-index	64796 79 g-index
101 all docs	101 docs citations	101 times ranked	11369 citing authors

#	Article	IF	Citations
1	Gut bacteria from multiple sclerosis patients modulate human T cells and exacerbate symptoms in mouse models. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10713-10718.	7.1	709
2	Impaired adult myelination in the prefrontal cortex of socially isolated mice. Nature Neuroscience, 2012, 15, 1621-1623.	14.8	578
3	Brain Cell Type Specific Gene Expression and Co-expression Network Architectures. Scientific Reports, 2018, 8, 8868.	3.3	335
4	Epigenome-wide differences in pathology-free regions of multiple sclerosisâ€"affected brains. Nature Neuroscience, 2014, 17, 121-130.	14.8	239
5	Microbiota-driven transcriptional changes in prefrontal cortex override genetic differences in social behavior. ELife, 2016, 5, .	6.0	226
6	Integrative network analysis of nineteen brain regions identifies molecular signatures and networks underlying selective regional vulnerability to Alzheimerâ€™s disease. Genome Medicine, 2016, 8, 104.	8.2	224
7	Maternal Cannabis Use Alters Ventral Striatal Dopamine D2 Gene Regulation in the Offspring. Biological Psychiatry, 2011, 70, 763-769.	1.3	215
8	Clemastine Enhances Myelination in the Prefrontal Cortex and Rescues Behavioral Changes in Socially Isolated Mice. Journal of Neuroscience, 2016, 36, 957-962.	3.6	209
9	Astrocyte-shed extracellular vesicles regulate the peripheral leukocyte response to inflammatory brain lesions. Science Signaling, 2017, 10, .	3.6	199
10	HDAC1 nuclear export induced by pathological conditions is essential for the onset of axonal damage. Nature Neuroscience, 2010, 13, 180-189.	14.8	188
11	Common dysregulation network in the human prefrontal cortex underlies two neurodegenerative diseases. Molecular Systems Biology, 2014, 10, 743.	7.2	182
12	Role of Tet1 and 5-hydroxymethylcytosine in cocaine action. Nature Neuroscience, 2015, 18, 536-544.	14.8	160
13	Selective Chemical Modulation of Gene Transcription Favors Oligodendrocyte Lineage Progression. Chemistry and Biology, 2014, 21, 841-854.	6.0	132
14	Epigenetic regulation of oligodendrocyte identity. Trends in Neurosciences, 2010, 33, 193-201.	8.6	130
15	Changed Histone Acetylation Patterns in Normal-Appearing White Matter and Early Multiple Sclerosis Lesions. Journal of Neuroscience, 2011, 31, 3435-3445.	3.6	130
16	Cerebrospinal fluid ceramides from patients with multiple sclerosis impair neuronal bioenergetics. Brain, 2014, 137, 2271-2286.	7.6	128
17	Epigenetic mechanisms in multiple sclerosis: implications for pathogenesis and treatment. Lancet Neurology, The, 2013, 12, 195-206.	10.2	123
18	HDAC inhibitors and neurodegeneration: At the edge between protection and damage. Pharmacological Research, 2010, 62, 11-17.	7.1	109

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19	Chromatin Landscape Defined by Repressive Histone Methylation during Oligodendrocyte Differentiation. Journal of Neuroscience, 2015, 35, 352-365.	3.6	103
20	Yy1 as a molecular link between neuregulin and transcriptional modulation of peripheral myelination. Nature Neuroscience, 2010, 13, 1472-1480.	14.8	102
21	Multiscale network modeling of oligodendrocytes reveals molecular components of myelin dysregulation in Alzheimerâ€™s disease. Molecular Neurodegeneration, 2017, 12, 82.	10.8	100
22	Axonal Damage in Multiple Sclerosis. Mount Sinai Journal of Medicine, 2011, 78, 231-243.	1.9	96
23	Identification of a Gene Regulatory Network Necessary for the Initiation of Oligodendrocyte Differentiation. PLoS ONE, 2011, 6, e18088.	2.5	88
24	Two-tier transcriptional control of oligodendrocyte differentiation. Current Opinion in Neurobiology, 2009, 19, 479-485.	4.2	83
25	Functional Characterization of DNA Methylation in the Oligodendrocyte Lineage. Cell Reports, 2016, 15, 748-760.	6.4	81
26	Differential Modulation of the Oligodendrocyte Transcriptome by Sonic Hedgehog and Bone Morphogenetic Protein 4 via Opposing Effects on Histone Acetylation. Journal of Neuroscience, 2012, 32, 6651-6664.	3.6	77
27	Nuclear export inhibitors avert progression in preclinical models of inflammatory demyelination. Nature Neuroscience, 2015, 18, 511-520.	14.8	76
28	Disease-modifying therapies alter gut microbial composition in MS. Neurology: Neuroimmunology and NeuroInflammation, 2019, 6, e517.	6.0	75
29	Region-specific myelin differences define behavioral consequences of chronic social defeat stress in mice. ELife, 2019, 8, .	6.0	74
30	PRMT5-mediated regulation of developmental myelination. Nature Communications, 2018, 9, 2840.	12.8	73
31	Sox2 Sustains Recruitment of Oligodendrocyte Progenitor Cells following CNS Demyelination and Primes Them for Differentiation during Remyelination. Journal of Neuroscience, 2015, 35, 11482-11499.	3.6	67
32	Mechanostimulation Promotes Nuclear and Epigenetic Changes in Oligodendrocytes. Journal of Neuroscience, 2016, 36, 806-813.	3.6	65
33	Gene expression abnormalities and oligodendrocyte deficits in the internal capsule in schizophrenia. Schizophrenia Research, 2010, 120, 150-158.	2.0	64
34	E2F1 Coregulates Cell Cycle Genes and Chromatin Components during the Transition of Oligodendrocyte Progenitors from Proliferation to Differentiation. Journal of Neuroscience, 2014, 34, 1481-1493.	3.6	64
35	Wellness and multiple sclerosis: The National MS Society establishes a Wellness Research Working Group and research priorities. Multiple Sclerosis Journal, 2018, 24, 262-267.	3.0	62
36	Conserved Chromosome 2q31 Conformations Are Associated with Transcriptional Regulation of GAD1 GABA Synthesis Enzyme and Altered in Prefrontal Cortex of Subjects with Schizophrenia. Journal of Neuroscience, 2013, 33, 11839-11851.	3.6	60

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37	PAD2-Mediated Citrullination Contributes to Efficient Oligodendrocyte Differentiation and Myelination. Cell Reports, 2019, 27, 1090-1102.e10.	6.4	59
38	Multiple Sclerosis-Associated Changes in the Composition and Immune Functions of Spore-Forming Bacteria. MSystems, 2018, 3, .	3.8	56
39	Widespread transcriptional alternations in oligodendrocytes in the adult mouse brain following chronic stress. Developmental Neurobiology, 2018, 78, 152-162.	3.0	54
40	Primary brain tumors, neural stem cell, and brain tumor cancer cells: Where is the link?. Neuropharmacology, 2010, 58, 903-910.	4.1	53
41	Defects of Lipid Synthesis Are Linked to the Age-Dependent Demyelination Caused by Lamin B1 Overexpression. Journal of Neuroscience, 2015, 35, 12002-12017.	3.6	51
42	Epigenetic control of oligodendrocyte development: adding new players to old keepers. Current Opinion in Neurobiology, 2016, 39, 133-138.	4.2	49
43	Cellâ€context specific role of the E2F/Rb pathway in development and disease. Glia, 2010, 58, 377-390.	4.9	48
44	TET1-mediated DNA hydroxymethylation regulates adult remyelination in mice. Nature Communications, 2021, 12, 3359.	12.8	47
45	Efficient Remyelination Requires DNA Methylation. ENeuro, 2017, 4, ENEURO.0336-16.2017.	1.9	45
46	Bromodomains: Translating the words of lysine acetylation into myelin injury and repair. Neuroscience Letters, 2016, 625, 4-10.	2.1	43
47	Bacterial neurotoxic metabolites in multiple sclerosis cerebrospinal fluid and plasma. Brain, 2022, 145, 569-583.	7.6	40
48	Roles of p53 and p27â€Kip1 in the regulation of neurogenesis in the murine adult subventricular zone. European Journal of Neuroscience, 2011, 34, 1040-1052.	2.6	38
49	Body Mass Index in Multiple Sclerosis modulates ceramide-induced DNA methylation and disease course. EBioMedicine, 2019, 43, 392-410.	6.1	36
50	c-Myc-dependent transcriptional regulation of cell cycle and nucleosomal histones during oligodendrocyte differentiation. Neuroscience, 2014, 276, 72-86.	2.3	35
51	A metabolic perspective on CSF-mediated neurodegeneration in multiple sclerosis. Brain, 2019, 142, 2756-2774.	7.6	35
52	Shaping the oligodendrocyte identity by epigenetic control. Epigenetics, 2010, 5, 124-128.	2.7	34
53	Interplay between transcriptional control and chromatin regulation in the oligodendrocyte lineage. Glia, 2015, 63, 1357-1375.	4.9	33
54	The Microbiomeâ€"Gutâ€"Behavior Axis: Crosstalk Between the Gut Microbiome and Oligodendrocytes Modulates Behavioral Responses. Neurotherapeutics, 2018, 15, 31-35.	4.4	32

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55	The Transcriptional Activator KrÃ¼ppel-like Factor-6 Is Required for CNS Myelination. PLoS Biology, 2016, 14, e1002467.	5.6	31
56	Combinatorial actions of TgfÎ² and Activin ligands promote oligodendrocyte development and CNS myelination. Development (Cambridge), 2014, 141, 2414-2428.	2.5	30
57	Astrocytes deliver CK1 to neurons via extracellular vesicles in response to inflammation promoting the translation and amyloidogenic processing of APP. Journal of Extracellular Vesicles, 2020, 10, e12035.	12.2	29
58	Aspartoacylase deficiency affects early postnatal development of oligodendrocytes and myelination. Neurobiology of Disease, 2010, 40, 432-443.	4.4	28
59	Epigenetic Modifiers Are Necessary but Not Sufficient for Reprogramming Non-Myelinating Cells into Myelin Gene-Expressing Cells. PLoS ONE, 2010, 5, e13023.	2.5	27
60	Subcellular Distribution of HDAC1 in Neurotoxic Conditions Is Dependent on Serine Phosphorylation. Journal of Neuroscience, 2017, 37, 7547-7559.	3.6	26
61	Epigenetic Modulation of Human Induced Pluripotent Stem Cell Differentiation to Oligodendrocytes. International Journal of Molecular Sciences, 2016, 17, 614.	4.1	24
62	Retrograde Degenerative Signaling Mediated by the p75 Neurotrophin Receptor Requires p150Glued Deacetylation by Axonal HDAC1. Developmental Cell, 2018, 46, 376-387.e7.	7.0	23
63	An integrated approach to design novel therapeutic interventions for demyelinating disorders. European Journal of Neuroscience, 2012, 35, 1879-1886.	2.6	22
64	Epigenetic modifications in brain and immune cells of multiple sclerosis patients. Multiple Sclerosis Journal, 2018, 24, 69-74.	3.0	22
65	Fumarates target the metabolic-epigenetic interplay of brain-homing T cells in multiple sclerosis. Brain, 2019, 142, 647-661.	7.6	22
66	Epigenomic signature of adrenoleukodystrophy predicts compromised oligodendrocyte differentiation. Brain Pathology, 2018, 28, 902-919.	4.1	21
67	DNA methylation in oligodendroglial cells during developmental myelination and in disease. Neurogenesis (Austin, Tex), 2017, 4, e1270381.	1.5	20
68	Epigenetics in NG2 glia cells. Brain Research, 2016, 1638, 183-198.	2.2	19
69	Mechanoâ€modulation of nuclear events regulating oligodendrocyte progenitor gene expression. Glia, 2019, 67, 1229-1239.	4.9	18
70	Beyond the neuron: Role of non-neuronal cells in stress disorders. Neuron, 2022, 110, 1116-1138.	8.1	18
71	Multiple sclerosis patient-derived CSF induces transcriptional changes in proliferating oligodendrocyte progenitors. Multiple Sclerosis Journal, 2015, 21, 1655-1669.	3.0	16
72	Interplay of hormones and p53 in modulating gender dimorphism of subventricular zone cell number. Journal of Neuroscience Research, 2009, 87, 3297-3305.	2.9	14

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73	Oligodendrocyte progenitors as environmental biosensors. Seminars in Cell and Developmental Biology, 2021, 116, 38-44.	5.0	12
74	The Chromatin Environment Around Interneuron Genes in Oligodendrocyte Precursor Cells and Their Potential for Interneuron Reprograming. Frontiers in Neuroscience, 2019, 13, 829.	2.8	11
75	White Matter Plasticity in Anxiety: Disruption of Neural Network Synchronization During Threat-Safety Discrimination. Frontiers in Cellular Neuroscience, 2020, 14, 587053.	3.7	11
76	Gut-brain communication in demyelinating disorders. Current Opinion in Neurobiology, 2020, 62, 92-101.	4.2	11
77	Bioenergetic Failure in Rat Oligodendrocyte Progenitor Cells Treated with Cerebrospinal Fluid Derived from Multiple Sclerosis Patients. Frontiers in Cellular Neuroscience, 2017, 11, 209.	3.7	10
78	Dynamic Lamin B1-Gene Association During Oligodendrocyte Progenitor Differentiation. Neurochemical Research, 2020, 45, 606-619.	3.3	10
79	Nâ€myc downstream regulated family member 1 (<scp>NDRG1</scp>) is enriched in myelinating oligodendrocytes and impacts myelin degradation in response to demyelination. Glia, 2022, 70, 321-336.	4.9	10
80	Defining the chromatin landscape in demyelinating disorders. Neurobiology of Disease, 2010, 39, 47-52.	4.4	9
81	Anti-TANKyrase weapons promote myelination. Nature Neuroscience, 2011, 14, 945-947.	14.8	8
82	PRMT5 Interacting Partners and Substrates in Oligodendrocyte Lineage Cells. Frontiers in Cellular Neuroscience, 2022, 16, 820226.	3.7	8
83	Retrospective unbiased plasma lipidomic of progressive multiple sclerosis patients-identifies lipids discriminating those with faster clinical deterioration. Scientific Reports, 2020, 10, 15644.	3.3	7
84	Does the gut microbiota contribute to the oligodendrocyte progenitor niche?. Neuroscience Letters, 2020, 715, 134574.	2.1	6
85	Sample Preparation for Metabolic Profiling using MALDI Mass Spectrometry Imaging. Journal of Visualized Experiments, 2020, , .	0.3	5
86	ACTL6a coordinates axonal caliber recognition and myelination in the peripheral nerve. IScience, 2022, 25, 104132.	4.1	3
87	EPIGENETIC MECHANISMS IN MULTIPLE SCLEROSIS. Revista EspaÃ±ola De Esclerosis MÃºltiple, 2014, 6, 25-35.	0.0	2
88	Foreword. Glia, 2020, 68, 1551-1553.	4.9	1
89	Prenatal Exposure to a Climate-Related Disaster Results in Changes of the Placental Transcriptome and Infant Temperament. Frontiers in Genetics, 2022, 13, 887619.	2.3	1
90	S4â€02â€03: Accelerating Medicines Partnership: Coâ€Expression Networks. Alzheimer's and Dementia, 2016, 12, P322.	0.8	0

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91	F2â€01â€01: Oligodendrocyteâ€Enriched Gene Networks Reveal Novel Pathways and Key Targets in the Pathogenesis of Alzheimerâ€™s Disease. Alzheimer's and Dementia, 2016, 12, P214.	0.8	0
92	Introduction to the special issue on myelin plasticity in the central nervous system. Developmental Neurobiology, 2018, 78, 65-67.	3.0	0
93	Emerging concepts in neuroscience research: 2019 highlights. Lancet Neurology, The, 2020, 19, 21-22.	10.2	0
94	Early life events effect on myelin gene expression. FASEB Journal, 2013, 27, 693.4.	0.5	0