Marie-Eve Tremblay

List of Publications by Year in Descending Order

137 papers	6,716 citations	40 h-index	80 g-index
163 ext. papers	9,127 ext. citations	7.5 avg, IF	6.52 L-index

#	Paper	IF	Citations
137	Maternal high-fat diet in mice induces cerebrovascular, microglial and long-term behavioural alterations in offspring.. *Communications Biology*, **2022**, 5, 26	6.7	0
136	Present and future of microglial pharmacology.. *Trends in Pharmacological Sciences*, **2022**,	13.2	2
135	N-3 PUFA Deficiency Affects the Ultrastructural Organization and Density of White Matter Microglia in the Developing Brain of Male Mice.. *Frontiers in Cellular Neuroscience*, **2022**, 16, 802411	6.1	0
134	Microglia control glutamatergic synapses in the adult mouse hippocampus. *Glia*, **2022**, 70, 173-195	9	5
133	Microglia modulate hippocampal synaptic transmission and sleep duration along the light/dark cycle. *Glia*, **2022**, 70, 89-105	9	5
132	N-3 PUFA deficiency disrupts oligodendrocyte maturation and myelin integrity during brain development. *Glia*, **2022**, 70, 50-70	9	1
131	Differential effects of early or late exposure to prenatal maternal immune activation on mouse embryonic neurodevelopment.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119, e2114545119	11.5	1
130	Early stress-induced impaired microglial pruning of excitatory synapses on immature CRH-expressing neurons provokes aberrant adult stress responses.. *Cell Reports*, **2022**, 38, 110600	10.6	5
129	A light-inducible protein clustering system for in vivo analysis of □synuclein aggregation in Parkinson disease.. *PLoS Biology*, **2022**, 20, e3001578	9.7	0
128	Single-cell transcriptomics of the ventral posterolateral nucleus-enriched thalamic regions from HSV-1-infected mice reveal a novel microglia/microglia-like transcriptional response.. *Journal of Neuroinflammation*, **2022**, 19, 81	10.1	1
127	Investigating Microglial Ultrastructural Alterations and Intimate Relationships with Neuronal Stress, Dystrophy, and Degeneration in Mouse Models of Alzheimer□ Disease. *Methods in Molecular Biology*, **2022**, 29-58	1.4	0
126	Psychological Stress as a Risk Factor for Accelerated Cellular Aging and Cognitive Decline: The Involvement of Microglia-Neuron Crosstalk. *Frontiers in Molecular Neuroscience*, **2021**, 14, 749737	6.1	3
125	Neuroendocrine, neuroinflammatory and pathological outcomes of chronic stress: A story of microglial remodeling. *Neurochemistry International*, **2021**, 145, 104987	4.4	14
124	Microglia contribute to social behavioral adaptation to chronic stress. *Glia*, **2021**, 69, 2459-2473	9	3
123	Microglial Implications in SARS-CoV-2 Infection and COVID-19: Lessons From Viral RNA Neurotropism and Possible Relevance to Parkinson's Disease. *Frontiers in Cellular Neuroscience*, **2021**, 15, 670298	6.1	13
122	The Intellicage system provides a reproducible and standardized method to assess behavioral changes in cuprizone-induced demyelination mouse model. *Behavioural Brain Research*, **2021**, 400, 113039	3.4	1
121	Sex differences in microglia as a risk factor for Alzheimer□ disease **2021**, 79-104		0

120	Microglia Fighting for Neurological and Mental Health: On the Central Nervous System Frontline of COVID-19 Pandemic. *Frontiers in Cellular Neuroscience*, **2021**, 15, 647378	6.1	11
119	Parkinson's Disease-Associated LRRK2 Interferes with Astrocyte-Mediated Alpha-Synuclein Clearance. *Molecular Neurobiology*, **2021**, 58, 3119-3140	6.2	16
118	Platelets release mitochondrial antigens in systemic lupus erythematosus. *Science Translational Medicine*, **2021**, 13,	17.5	12
117	Brain Ultrastructure: Putting the Pieces Together. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 629503	5.7	13
116	Microglial heterogeneity in aging and Alzheimer's disease: Is sex relevant?. *Journal of Pharmacological Sciences*, **2021**, 146, 169-181	3.7	6
115	Microglia are involved in phagocytosis and extracellular digestion during Zika virus encephalitis in young adult immunodeficient mice. *Journal of Neuroinflammation*, **2021**, 18, 178	10.1	1
114	Maternal high-fat diet modifies myelin organization, microglial interactions, and results in social memory and sensorimotor gating deficits in adolescent mouse offspring. *Brain, Behavior, & Immunity - Health*, **2021**, 15, 100281	5.1	3
113	Purinergic signaling in nervous system health and disease: Focus on pannexin 1. *Pharmacology & Therapeutics*, **2021**, 225, 107840	13.9	5
112	Capillary-associated microglia regulate vascular structure and function through PANX1-P2RY12 coupling in mice. *Nature Communications*, **2021**, 12, 5289	17.4	20
111	Plasticity of microglia. *Biological Reviews*, **2021**,	13.5	5
110	Microglial functional alteration and increased diversity in the challenged brain: Insights into novel targets for intervention. *Brain, Behavior, & Immunity - Health*, **2021**, 16, 100301	5.1	5
109	Microglial-glucocorticoid receptor depletion alters the response of hippocampal microglia and neurons in a chronic unpredictable mild stress paradigm in female mice. *Brain, Behavior, and Immunity*, **2021**, 97, 423-439	16.6	4
108	Lipopolysaccharide-induced maternal immune activation modulates microglial CX3CR1 protein expression and morphological phenotype in the hippocampus and dentate gyrus, resulting in cognitive inflexibility during late adolescence. *Brain, Behavior, and Immunity*, **2021**, 97, 440-454	16.6	1
107	Novel microglia-mediated mechanisms underlying synaptic loss and cognitive impairment after traumatic brain injury. *Brain, Behavior, and Immunity*, **2021**, 98, 122-135	16.6	4
106	A Systematic, Open-Science Framework for Quantification of Cell-Types in Mouse Brain Sections Using Fluorescence Microscopy.. *Frontiers in Neuroanatomy*, **2021**, 15, 722443	3.6	0
105	Alterations in Intrinsic and Synaptic Properties of Hippocampal CA1 VIP Interneurons During Aging. *Frontiers in Cellular Neuroscience*, **2020**, 14, 554405	6.1	4
104	Remodeling microglia to a protective phenotype in Parkinson's disease?. *Neuroscience Letters*, **2020**, 735, 135164	3.3	8
103	Role of Glia in the Regulation of Sleep in Health and Disease. *Comprehensive Physiology*, **2020**, 10, 687-712	7.7	11

102	Neuronal hypertrophy dampens neuronal intrinsic excitability and stress responsiveness during chronic stress. *Journal of Physiology*, **2020**, 598, 2757-2773	3.9	7
101	Impact of TREM2R47H variant on tau pathology-induced gliosis and neurodegeneration. *Journal of Clinical Investigation*, **2020**, 130, 4954-4968	15.9	59
100	Shedding Light on the Dark Side of the Microglia. *ASN Neuro*, **2020**, 12, 1759091420925335	5.3	21
99	Common Pathways in Depression and Obesity: The Role of Gut Microbiome and Diets. *Current Behavioral Neuroscience Reports*, **2020**, 7, 15-21	1.7	3
98	An antibody for analysis of autophagy induction. *Nature Methods*, **2020**, 17, 232-239	21.6	24
97	Sex Differences of Microglia and Synapses in the Hippocampal Dentate Gyrus of Adult Mouse Offspring Exposed to Maternal Immune Activation. *Frontiers in Cellular Neuroscience*, **2020**, 14, 558181	6.1	7
96	Imaging the Neuroimmune Dynamics Across Space and Time. *Frontiers in Neuroscience*, **2020**, 14, 903	5.1	13
95	Glutamate-induced excitotoxicity in Parkinson's disease: The role of glial cells. *Journal of Pharmacological Sciences*, **2020**, 144, 151-164	3.7	53
94	Vascular contributions to 16p11.2 deletion autism syndrome modeled in mice. *Nature Neuroscience*, **2020**, 23, 1090-1101	25.5	25
93	Essential omega-3 fatty acids tune microglial phagocytosis of synaptic elements in the mouse developing brain. *Nature Communications*, **2020**, 11, 6133	17.4	38
92	Neuropathobiology of COVID-19: The Role for Glia. *Frontiers in Cellular Neuroscience*, **2020**, 14, 592214	6.1	50
91	Levodopa partially rescues microglial numerical, morphological, and phagolysosomal alterations in a monkey model of Parkinson's disease. *Brain, Behavior, and Immunity*, **2020**, 90, 81-96	16.6	9
90	The Inflamed Brain in Schizophrenia: The Convergence of Genetic and Environmental Risk Factors That Lead to Uncontrolled Neuroinflammation. *Frontiers in Cellular Neuroscience*, **2020**, 14, 274	6.1	33
89	Microglial and peripheral immune priming is partially sexually dimorphic in adolescent mouse offspring exposed to maternal high-fat diet. *Journal of Neuroinflammation*, **2020**, 17, 264	10.1	14
88	Synaptic Loss in Alzheimer's Disease: Mechanistic Insights Provided by Two-Photon Imaging of Transgenic Mouse Models. *Frontiers in Cellular Neuroscience*, **2020**, 14, 592607	6.1	5
87	Microglial physiological properties and interactions with synapses are altered at presymptomatic stages in a mouse model of Huntington's disease pathology. *Journal of Neuroinflammation*, **2020**, 17, 98	10.1	28
86	Structural and Functional Features of Developing Brain Capillaries, and Their Alteration in Schizophrenia. *Frontiers in Cellular Neuroscience*, **2020**, 14, 595002	6.1	5
85	From Maternal Diet to Neurodevelopmental Disorders: A Story of Neuroinflammation. *Frontiers in Cellular Neuroscience*, **2020**, 14, 612705	6.1	19

84	Mitochondrial sub-cellular localization of cAMP-specific phosphodiesterase 8A in ovarian follicular cells. *Scientific Reports*, **2019**, 9, 12493	4.9	5
83	Inflammatory mechanisms in neurodegeneration. *Journal of Neurochemistry*, **2019**, 149, 562-581	6	49
82	Platelet abnormalities in Huntington's disease. *Journal of Neurology, Neurosurgery and Psychiatry*, **2019**, 90, 272-283	5.5	15
81	Microglia are an essential component of the neuroprotective scar that forms after spinal cord injury. *Nature Communications*, **2019**, 10, 518	17.4	189
80	Microglia along sex lines: From brain colonization, maturation and function, to implication in neurodevelopmental disorders. *Seminars in Cell and Developmental Biology*, **2019**, 94, 152-163	7.5	28
79	Studying Laboratory Mice - Into the Wild. *Trends in Neurosciences*, **2019**, 42, 566-568	13.3	3
78	Ultrastructural evidence of microglial heterogeneity in Alzheimer's disease amyloid pathology. *Journal of Neuroinflammation*, **2019**, 16, 87	10.1	43
77	Canonical Wnt Pathway Maintains Blood-Brain Barrier Integrity upon Ischemic Stroke and Its Activation Ameliorates Tissue Plasminogen Activator Therapy. *Molecular Neurobiology*, **2019**, 56, 6521-6538	6.3	34
76	Anti-mitochondrial autoantibodies in systemic lupus erythematosus and their association with disease manifestations. *Scientific Reports*, **2019**, 9, 4530	4.9	17
75	Glial phagocytic clearance in Parkinson's disease. *Molecular Neurodegeneration*, **2019**, 14, 16	19	66
74	Morphology of Microglia Across Contexts of Health and Disease. *Methods in Molecular Biology*, **2019**, 2034, 13-26	1.4	35
73	Ultrastructural Analyses of Microglial Interactions with Synapses. *Methods in Molecular Biology*, **2019**, 2034, 83-95	1.4	3
72	Visualizing Dark Microglia. *Methods in Molecular Biology*, **2019**, 2034, 97-110	1.4	15
71	Imaging and Reconstructing Microglia in 3 Dimensions Using FIB-SEM. *Microscopy and Microanalysis*, **2019**, 25, 1316-1317	0.5	1
70	Microglial subtypes: diversity within the microglial community. *EMBO Journal*, **2019**, 38, e101997	13	181
69	Immunofluorescence Staining Using IBA1 and TMEM119 for Microglial Density, Morphology and Peripheral Myeloid Cell Infiltration Analysis in Mouse Brain. *Journal of Visualized Experiments*, **2019**,	1.6	15
68	Physiology of Microglia. *Advances in Experimental Medicine and Biology*, **2019**, 1175, 129-148	3.6	28
67	Microglial Ultrastructure in the Hippocampus of a Lipopolysaccharide-Induced Sickness Mouse Model. *Frontiers in Neuroscience*, **2019**, 13, 1340	5.1	24

66	Microglia in the developing prefrontal cortex of rats show dynamic changes following neonatal disconnection of the ventral hippocampus. *Neuropharmacology*, **2019**, 146, 264-275	5.5	8
65	Microglia and Neonatal Brain Injury. *Neuroscience*, **2019**, 405, 68-76	3.9	57
64	ProMoIJ: A new tool for automatic three-dimensional analysis of microglial process motility. *Glia*, **2018**, 66, 828-845	9	14
63	A Brief History of Microglial Ultrastructure: Distinctive Features, Phenotypes, and Functions Discovered Over the Past 60 Years by Electron Microscopy. *Frontiers in Immunology*, **2018**, 9, 803	8.4	33
62	mCSF-Induced Microglial Activation Prevents Myelin Loss and Promotes Its Repair in a Mouse Model of Multiple Sclerosis. *Frontiers in Cellular Neuroscience*, **2018**, 12, 178	6.1	32
61	Prenatal Immune Challenge in Mice Leads to Partly Sex-Dependent Behavioral, Microglial, and Molecular Abnormalities Associated with Schizophrenia. *Frontiers in Molecular Neuroscience*, **2018**, 11, 13	6.1	78
60	Delta Opioid Receptor Signaling Promotes Resilience to Stress Under the Repeated Social Defeat Paradigm in Mice. *Frontiers in Molecular Neuroscience*, **2018**, 11, 100	6.1	22
59	Differential effect of angiotensin II and blood pressure on hippocampal inflammation in mice. *Journal of Neuroinflammation*, **2018**, 15, 62	10.1	18
58	Microglial Implication in Parkinson's Disease: Loss of Beneficial Physiological Roles or Gain of Inflammatory Functions?. *Frontiers in Cellular Neuroscience*, **2018**, 12, 282	6.1	74
57	The influence of sex and neonatal stress on medullary microglia in rat pups. *Experimental Physiology* , **2018**, 103, 1192-1199	2.4	14
56	Nonfunctional mutant Wrn protein leads to neurological deficits, neuronal stress, microglial alteration, and immune imbalance in a mouse model of Werner syndrome. *Brain, Behavior, and Immunity*, **2018**, 73, 450-469	16.6	23
55	Dark microglia across contexts of health and disease. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, SY17-1	0	
54	Outcome of cell suspension allografts in a patient with Huntington's disease. *Annals of Neurology*, **2018**, 84, 950-956	9.4	9
53	Cell-lineage specificity of primary cilia during postnatal epididymal development. *Human Reproduction*, **2018**, 33, 1829-1838	5.7	4
52	Reduced Microglial Activity and Enhanced Glutamate Transmission in the Basolateral Amygdala in Early CNS Autoimmunity. *Journal of Neuroscience*, **2018**, 38, 9019-9033	6.6	31
51	Chronic stress as a risk factor for Alzheimer's disease: Roles of microglia-mediated synaptic remodeling, inflammation, and oxidative stress. *Neurobiology of Stress*, **2018**, 9, 9-21	7.6	151
50	Microglia across the lifespan: from origin to function in brain development, plasticity and cognition. *Journal of Physiology*, **2017**, 595, 1929-1945	3.9	265
49	Microglia under psychosocial stressors along the aging trajectory: Consequences on neuronal circuits, behavior, and brain diseases. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, **2017**, 79, 27-39	5.5	26

48	Environmental stimuli shape microglial plasticity in glioma. *ELife*, **2017**, 6,	8.9	28
47	Microglia Gone Rogue: Impacts on Psychiatric Disorders across the Lifespan. *Frontiers in Molecular Neuroscience*, **2017**, 10, 421	6.1	108
46	The microglial fractalkine receptor is not required for activity-dependent plasticity in the mouse visual system. *Glia*, **2017**, 65, 1744-1761	9	47
45	Neonatal maternal separation opposes the facilitatory effect of castration on the respiratory response to hypercapnia of the adult male rat: Evidence for the involvement of the medial amygdala. *Journal of Neuroendocrinology*, **2017**, 29, e12550	3.8	12
44	Roles of Microglial Phagocytosis and Inflammatory Mediators in the Pathophysiology of Sleep Disorders. *Frontiers in Cellular Neuroscience*, **2017**, 11, 250	6.1	25
43	Enkephalins: Endogenous Analgesics with an Emerging Role in Stress Resilience. *Neural Plasticity*, **2017**, 2017, 1546125	3.3	40
42	Fractalkine receptor deficiency impairs microglial and neuronal responsiveness to chronic stress. *Brain, Behavior, and Immunity*, **2016**, 55, 114-125	16.6	136
41	Correlative Light and Electron Microscopy to Study Microglial Interactions with β-Amyloid Plaques. *Journal of Visualized Experiments*, **2016**,	1.6	17
40	Neuronal Hyperactivity Disturbs ATP Microgradients, Impairs Microglial Motility, and Reduces Phagocytic Receptor Expression Triggering Apoptosis/Microglial Phagocytosis Uncoupling. *PLoS Biology*, **2016**, 14, e1002466	9.7	89
39	Identification and Localization of the Cyclic Nucleotide Phosphodiesterase 10A in Bovine Testis and Mature Spermatozoa. *PLoS ONE*, **2016**, 11, e0161035	3.7	6
38	Remodeling of lipid bodies by docosahexaenoic acid in activated microglial cells. *Journal of Neuroinflammation*, **2016**, 13, 116	10.1	29
37	Dark microglia: Why are they dark?. *Communicative and Integrative Biology*, **2016**, 9, e1230575	1.7	18
36	Fluoxetine treatment affects the inflammatory response and microglial function according to the quality of the living environment. *Brain, Behavior, and Immunity*, **2016**, 58, 261-271	16.6	58
35	Dark microglia: A new phenotype predominantly associated with pathological states. *Glia*, **2016**, 64, 826-39	6	207
34	Immune Monitoring of Trans-endothelial Transport by Kidney-Resident Macrophages. *Cell*, **2016**, 166, 991-1003	56.2	110
33	GPR84 deficiency reduces microgliosis, but accelerates dendritic degeneration and cognitive decline in a mouse model of Alzheimer's disease. *Brain, Behavior, and Immunity*, **2015**, 46, 112-20	16.6	34
32	From the Cajal alumni Achúcarro and Río-Hortega to the rediscovery of never-resting microglia. *Frontiers in Neuroanatomy*, **2015**, 9, 45	3.6	53
31	Inefficient clearance of myelin debris by microglia impairs remyelinating processes. *Journal of Experimental Medicine*, **2015**, 212, 481-95	16.6	283

30	IL-1 Gene Deletion Protects Oligodendrocytes after Spinal Cord Injury through Upregulation of the Survival Factor Tox3. *Journal of Neuroscience*, **2015**, 35, 10715-30	6.6	45
29	miR-132/212 deficiency impairs tau metabolism and promotes pathological aggregation in vivo. *Human Molecular Genetics*, **2015**, 24, 6721-35	5.6	124
28	Fractalkine regulation of microglial physiology and consequences on the brain and behavior. *Frontiers in Cellular Neuroscience*, **2014**, 8, 129	6.1	182
27	Characterization of the BAC Id3-enhanced green fluorescent protein transgenic mouse line for in vivo imaging of astrocytes. *Neurophotonics*, **2014**, 1, 011014	3.9	4
26	Subcellular localization of intercellular adhesion molecule-5 (telencephalin) in the visual cortex is not developmentally regulated in the absence of matrix metalloproteinase-9. *Journal of Comparative Neurology*, **2014**, 522, 676-88	3.4	19
25	Never-resting microglia: physiological roles in the healthy brain and pathological implications. *Frontiers in Cellular Neuroscience*, **2014**, 8, 240	6.1	52
24	Surveillance, phagocytosis, and inflammation: how never-resting microglia influence adult hippocampal neurogenesis. *Neural Plasticity*, **2014**, 2014, 610343	3.3	165
23	Developing and Mature Synapses **2014**, 223-248		1
22	Adult Neurogenesis, Learning and Memory **2014**, 249-271		
21	DCC expression by neurons regulates synaptic plasticity in the adult brain. *Cell Reports*, **2013**, 3, 173-85	10.6	82
20	The new small-molecule mixed-lineage kinase 3 inhibitor URMC-099 is neuroprotective and anti-inflammatory in models of human immunodeficiency virus-associated neurocognitive disorders. *Journal of Neuroscience*, **2013**, 33, 9998-10010	6.6	49
19	Ultrastructure of microglia-synapse interactions in the HIV-1 Tat-injected murine central nervous system. *Communicative and Integrative Biology*, **2013**, 6, e27670	1.7	21
18	Interactions between intercellular adhesion molecule-5 positive elements and their surroundings in the rodent visual cortex. *Communicative and Integrative Biology*, **2013**, 6, e27315	1.7	5
17	Microglia and synapse: interactions in health and neurodegeneration. *Neural Plasticity*, **2013**, 2013, 425845	3.3	52
16	Effects of aging and sensory loss on glial cells in mouse visual and auditory cortices. *Glia*, **2012**, 60, 541-58	5.9	204
15	The role of microglia at synapses in the healthy CNS: novel insights from recent imaging studies. *Neuron Glia Biology*, **2011**, 7, 67-76		75
14	A role for microglia in synaptic plasticity?. *Communicative and Integrative Biology*, **2011**, 4, 220-2	1.7	121
13	The role of microglia in the healthy brain. *Journal of Neuroscience*, **2011**, 31, 16064-9	6.6	679

12	HIV-1 Tat-induced microgliosis and synaptic damage via interactions between peripheral and central myeloid cells. *PLoS ONE*, **2011**, 6, e23915	3.7	56
11	EphA4 is localized in clathrin-coated and synaptic vesicles in adult mouse brain. *Journal of Neurochemistry*, **2010**, 113, 153-65	6	15
10	Postsynaptic deregulation in GAP-43 heterozygous mouse barrel cortex. *Cerebral Cortex*, **2010**, 20, 1696-707	5.1	8
9	Microglial interactions with synapses are modulated by visual experience. *PLoS Biology*, **2010**, 8, e1000527	9.7	941
8	A thin-skull window technique for chronic two-photon in vivo imaging of murine microglia in models of neuroinflammation. *Journal of Visualized Experiments*, **2010**,	1.6	43
7	Preparation of mouse brain tissue for immunoelectron microscopy. *Journal of Visualized Experiments*, **2010**,	1.6	43
6	Developmental course of EphA4 cellular and subcellular localization in the postnatal rat hippocampus. *Journal of Comparative Neurology*, **2009**, 512, 798-813	3.4	31
5	Pre-synaptic and post-synaptic localization of EphA4 and EphB2 in adult mouse forebrain. *Journal of Neurochemistry*, **2008**, 106, 682-95	6	54
4	Strengthening corticospinal connections with chronic electrical stimulation after injury. *Journal of Neuroscience*, **2008**, 28, 3262-3	6.6	2
3	Localization of EphA4 in axon terminals and dendritic spines of adult rat hippocampus. *Journal of Comparative Neurology*, **2007**, 501, 691-702	3.4	55
2	Spawning and gamete follicle rupture in the cnidarian Renilla koellikeri: effects of putative neurohormones. *General and Comparative Endocrinology*, **2004**, 137, 9-18	3	23
1	Differential effects of early or late exposure to prenatal maternal immune activation on mouse embryonic neurodevelopment		1