Duraisamy Kempuraj

List of Publications by Year
in descending order

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79 papers	3,033 citations	159358 30 h-index	168136 53 g-index
80 all docs	80 docs citations	80 times ranked	4043 citing authors

#	Article	IF	Citations
1	IL-33 augments substance Pâ€“induced VEGF secretion from human mast cells and is increased in psoriatic skin. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 4448-4453.	3.3	282
2	Brain and Peripheral Atypical Inflammatory Mediators Potentiate Neuroinflammation and Neurodegeneration. Frontiers in Cellular Neuroscience, 2017, 11, 216.	1.8	261
3	IL-1 Induces Vesicular Secretion of IL-6 without Degranulation from Human Mast Cells. Journal of Immunology, 2003, 171, 4830-4836.	0.4	202
4	COVID-19, Mast Cells, Cytokine Storm, Psychological Stress, and Neuroinflammation. Neuroscientist, 2020, 26, 402-414.	2.6	195
5	Neuroprotective effects of flavone luteolin in neuroinflammation and neurotrauma. BioFactors, 2021, 47, 190-197.	2.6	119
6	Characterization of Mast Cell-Committed Progenitors Present in Human Umbilical Cord Blood. Blood, 1999, 93, 3338-3346.	0.6	112
7	Mast Cells in Stress, Pain, Blood-Brain Barrier, Neuroinflammation and Alzheimerâ€™s Disease. Frontiers in Cellular Neuroscience, 2019, 13, 54.	1.8	85
8	Co-Localization of Glia Maturation Factor with NLRP3 Inflammasome and Autophagosome Markers in Human Alzheimerâ€™s Disease Brain. Journal of Alzheimer's Disease, 2017, 60, 1143-1160.	1.2	79
9	Mast Cell Activation in Brain Injury, Stress, and Post-traumatic Stress Disorder and Alzheimer's Disease Pathogenesis. Frontiers in Neuroscience, 2017, 11, 703.	1.4	79
10	Protection of MPTP-induced neuroinflammation and neurodegeneration by Pycnogenol. Neurochemistry International, 2013, 62, 379-388.	1.9	76
11	Mercury induces inflammatory mediator release from human mast cells. Journal of Neuroinflammation, 2010, 7, 20.	3.1	73
12	Autism: an emerging â€˜neuroimmune disorderâ€™ in search of therapy. Expert Opinion on Pharmacotherapy, 2009, 10, 2127-2143.	0.9	69
13	Glia Maturation Factor Induces Interleukin-33 Release from Astrocytes: Implications for Neurodegenerative Diseases. Journal of NeuroImmune Pharmacology, 2013, 8, 643-650.	2.1	62
14	Alzheimer's Disease: Evidence for the Expression of Interleukin-33 and Its Receptor ST2 in the Brain. Journal of Alzheimer's Disease, 2014, 40, 297-308.	1.2	61
15	The Novel Cytokine Interleukin-33 Activates Acinar Cell Proinflammatory Pathways and Induces Acute Pancreatic Inflammation in Mice. PLoS ONE, 2013, 8, e56866.	1.1	58
16	Cross-Talk between Glia, Neurons and Mast Cells in Neuroinflammation Associated with Parkinsonâ€™s Disease. Journal of NeuroImmune Pharmacology, 2018, 13, 100-112.	2.1	58
17	Impact of stress and mast cells on brain metastases. Journal of Neuroimmunology, 2008, 205, 1-7.	1.1	54
18	Mitochondrial Uncoupling Protein 2 Inhibits Mast Cell Activation and Reduces Histamine Content. Journal of Immunology, 2009, 183, 6313-6319.	0.4	50

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19	Mast Cell Proteases Activate Astrocytes and Glia-Neurons and Release Interleukin-33 by Activating p38 and ERK1/2 MAPKs and NF-Î¹B. Molecular Neurobiology, 2019, 56, 1681-1693.	1.9	50
20	Brain Injuryâ€“Mediated Neuroinflammatory Response and Alzheimerâ€™s Disease. Neuroscientist, 2020, 26, 134-155.	2.6	47
21	Enhanced Expression of Glia Maturation Factor Correlates with Glial Activation in the Brain of Triple Transgenic Alzheimerâ€™s Disease Mice. Neurochemical Research, 2013, 38, 218-225.	1.6	45
22	Targeted Gene Editing of Glia Maturation Factor in Microglia: a Novel Alzheimerâ€™s Disease Therapeutic Target. Molecular Neurobiology, 2019, 56, 378-393.	1.9	43
23	Mast Cells, T Cells, and Inhibition by Luteolin: Implications for the Pathogenesis and Treatment of Multiple Sclerosis. Advances in Experimental Medicine and Biology, 2007, 601, 423-430.	0.8	43
24	Human Mast Cells Stimulate Activated T Cells. Annals of the New York Academy of Sciences, 2008, 1144, 74-82.	1.8	42
25	Rupatadine Inhibits Proinflammatory Mediator Secretion from Human Mast Cells Triggered by Different Stimuli. International Archives of Allergy and Immunology, 2010, 151, 38-45.	0.9	40
26	Niacin-induced â€œFlushâ€•Involves Release of Prostaglandin D₂from Mast Cells and Serotonin from Platelets: Evidence from Human Cells in Vitro and an Animal Model. Journal of Pharmacology and Experimental Therapeutics, 2008, 327, 665-672.	1.3	38
27	NLRP3 inflammasome and glia maturation factor coordinately regulate neuroinflammation and neuronal loss in MPTP mouse model of Parkinsonâ€™s disease. International Immunopharmacology, 2020, 83, 106441.	1.7	36
28	Dopaminergic Toxin 1-Methyl-4-Phenylpyridinium, Proteins Î±-Synuclein and Glia Maturation Factor Activate Mast Cells and Release Inflammatory Mediators. PLoS ONE, 2015, 10, e0135776.	1.1	33
29	Urocortin induces interleukin-6 release from rat cardiomyocytes through p38 MAP kinase, ERK and NF-Î¹B activation. Journal of Molecular Endocrinology, 2009, 42, 397-405.	1.1	32
30	Corticotropinâ€releasing hormoneâ€receptor 2 is required for acute stressâ€induced bladder vascular permeability and release of vascular endothelial growth factor. BJU International, 2010, 106, 1394-1399.	1.3	32
31	Glia Maturation Factor and Mitochondrial Uncoupling Proteins 2 and 4 Expression in the Temporal Cortex of Alzheimerâ€™s Disease Brain. Frontiers in Aging Neuroscience, 2017, 9, 150.	1.7	31
32	Glia Maturation Factor Dependent Inhibition of Mitochondrial PGC-1Î± Triggers Oxidative Stress-Mediated Apoptosis in N27 Rat Dopaminergic Neuronal Cells. Molecular Neurobiology, 2018, 55, 7132-7152.	1.9	30
33	Glia Maturation Factor Expression in Entorhinal Cortex of Alzheimerâ€™s Disease Brain. Neurochemical Research, 2013, 38, 1777-1784.	1.6	27
34	Mast Cells Release Chemokine CCL2 in Response to Parkinsonian Toxin 1-Methyl-4-Phenyl-Pyridinium (MPP+). Neurochemical Research, 2016, 41, 1042-1049.	1.6	25
35	Mast Cell Activation, Neuroinflammation, and Tight Junction Protein Derangement in Acute Traumatic Brain Injury. Mediators of Inflammation, 2020, 2020, 1-12.	1.4	25
36	Glia Maturation Factor Expression in Hippocampus of Human Alzheimerâ€™s Disease. Neurochemical Research, 2013, 38, 1580-1589.	1.6	23

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37	Acute Traumatic Brain Injury-Induced Neuroinflammatory Response and Neurovascular Disorders in the Brain. Neurotoxicity Research, 2021, 39, 359-368.	1.3	23
38	Co-Expression of Glia Maturation Factor and Apolipoprotein E4 in Alzheimerâ€™s Disease Brain. Journal of Alzheimer's Disease, 2017, 61, 553-560.	1.2	22
39	Glia Maturation Factor and Mast Cell-Dependent Expression of Inflammatory Mediators and Proteinase Activated Receptor-2 in Neuroinflammation. Journal of Alzheimer's Disease, 2018, 66, 1117-1129.	1.2	22
40	Next Generation Precision Medicine: CRISPR-mediated Genome Editing for the Treatment of Neurodegenerative Disorders. Journal of NeuroImmune Pharmacology, 2019, 14, 608-641.	2.1	22
41	CRISPR/Cas9 Editing of Glia Maturation Factor Regulates Mitochondrial Dynamics by Attenuation of the NRF2/HO-1 Dependent Ferritin Activation in Glial Cells. Journal of NeuroImmune Pharmacology, 2019, 14, 537-550.	2.1	22
42	Glia Maturation Factor Deficiency Suppresses 1-Methyl-4-Phenylpyridinium-Induced Oxidative Stress in Astrocytes. Journal of Molecular Neuroscience, 2014, 53, 590-599.	1.1	21
43	Amitriptyline and Prochlorperazine Inhibit Proinflammatory Mediator Release From Human Mast Cells. Journal of Clinical Psychopharmacology, 2011, 31, 385-387.	0.7	20
44	A role for glia maturation factor dependent activation of mast cells and microglia in MPTP induced dopamine loss and behavioural deficits in mice. Brain, Behavior, and Immunity, 2020, 87, 429-443.	2.0	20
45	Brain metastases of mouse mammary adenocarcinoma is increased by acute stress. Brain Research, 2010, 1366, 204-210.	1.1	19
46	Absence of Glia Maturation Factor Protects Dopaminergic Neurons and Improves Motor Behavior in Mouse Model of Parkinsonism. Neurochemical Research, 2015, 40, 980-990.	1.6	17
47	Neuro-Immuno-Gene- and Genome-Editing-Therapy for Alzheimerâ€™s Disease: Are We There Yet?. Journal of Alzheimer's Disease, 2018, 65, 321-344.	1.2	17
48	Synergy in Disruption of Mitochondrial Dynamics by AÎ² (1-42) and Glia Maturation Factor (GMF) in SH-SY5Y Cells Is Mediated Through Alterations in Fission and Fusion Proteins. Molecular Neurobiology, 2019, 56, 6964-6975.	1.9	17
49	A Novel Model of Severe Gallstone Pancreatitis: Murine Pancreatic Duct Ligation Results in Systemic Inflammation and Substantial Mortality. Pancreatology, 2010, 10, 536-544.	0.5	16
50	Systemic Inflammation with Multiorgan Dysfunction Is the Cause of Death in Murine Ligation-Induced Acute Pancreatitis. Journal of Gastrointestinal Surgery, 2011, 15, 1670-1678.	0.9	16
51	Autophagy in Extracellular Matrix and Wound Healing Modulation in the Cornea. Biomedicines, 2022, 10, 339.	1.4	15
52	IL-37 a New IL-1 Family Member Emerges as a Key Suppressor of Asthma Mediated by Mast Cells. Immunological Investigations, 2017, 46, 239-250.	1.0	14
53	Psychological Stressâ€“Induced Immune Response and Risk of Alzheimer's Disease in Veterans from Operation Enduring Freedom and Operation Iraqi Freedom. Clinical Therapeutics, 2020, 42, 974-982.	1.1	13
54	Are Tanycytes the Missing Link Between Type 2 Diabetes and Alzheimerâ€™s Disease?. Molecular Neurobiology, 2019, 56, 833-843.	1.9	12

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55	Molecular Association of Glia Maturation Factor with the Autophagic Machinery in Rat Dopaminergic Neurons: a Role for Endoplasmic Reticulum Stress and MAPK Activation. Molecular Neurobiology, 2019, 56, 3865-3881.	1.9	11
56	Are mast cells important in diabetes?. Polish Journal of Pathology, 2016, 3, 199-206.	0.1	10
57	Real-Time Noninvasive Bioluminescence, Ultrasound and Photoacoustic Imaging in NFÎºB-RE-Luc Transgenic Mice Reveal Glia Maturation Factor-Mediated Immediate and Sustained Spatio-Temporal Activation of NFÎºB Signaling Post-Traumatic Brain Injury in a Gender-Specific Manner. Cellular and Molecular Neurobiology, 2021, 41, 1687-1706.	1.7	10
58	Neuroinflammation Mediated by Glia Maturation Factor Exacerbates Neuronal Injury in an in vitro Model of Traumatic Brain Injury. Journal of Neurotrauma, 2020, 37, 1645-1655.	1.7	9
59	Absence of Glia Maturation Factor Protects from Axonal Injury and Motor Behavioral Impairments after Traumatic Brain Injury. Experimental Neurobiology, 2020, 29, 230-248.	0.7	9
60	Current Trends in Biomarkers for Traumatic Brain Injury. Open Access Journal of Neurology & Neurosurgery, 2020, 12, 86-94.	0.1	9
61	Glia Maturation Factor (GMF) Regulates Microglial Expression Phenotypes and the Associated Neurological Deficits in a Mouse Model of Traumatic Brain Injury. Molecular Neurobiology, 2020, 57, 4438-4450.	1.9	8
62	Measurement of Elevated IL-37 Levels in Acute Ischemic Brain Injury: A Cross-sectional Pilot Study. Cureus, 2017, 9, e1767.	0.2	7
63	Cytokines, brain proteins, and growth factors in acute stroke patients: A pilot study. , 2021, 12, 366.		5
64	Evaluation of CRISPR/Cas9 mediated TGIF gene editing to inhibit corneal fibrosis in vitro. Experimental Eye Research, 2022, 220, 109113.	1.2	4
65	Immune Suppression of Glia Maturation Factor Reverses Behavioral Impairment, Attenuates Amyloid Plaque Pathology and Neuroinflammation in an Alzheimerâ€™s Disease Mouse Model. Journal of NeuroImmune Pharmacology, 2021, 16, 363-375.	2.1	3
66	Mast cell activation by glia maturation factor, 1â€methylâ€4â€phenylpyridinium and Î±â€synuclein: implications for Parkinsonâ€™s disease (596.5). FASEB Journal, 2014, 28, 596.5.	0.2	1
67	Mast Cells Augment Neuroinflammation and Neurodegeneration. FASEB Journal, 2019, 33, 791.5.	0.2	1
68	Glia Maturation Factor in the Pathogenesis of Alzheimer's disease. Open Access Journal of Neurology & Neurosurgery, 2019, 12, 79-82.	0.1	1
69	Mast Cell Activation and Interleukin-33 Upregulation in Pancreas and Lung of Pancreatic Duct Ligation-Induced Acute Pancreatitis in Rodents. Gastroenterology, 2011, 140, S-551.	0.6	0
70	Systemic Inflammation With Multiorgan Dysfunction is the Cause of Death in Murine Pancreatic Duct Ligation-Induced Acute Pancreatitis. Gastroenterology, 2011, 140, S-1026.	0.6	0
71	Human mast cell degranulation is distinguished from selective secretion of TNF through intracellular calcium, energy and mitochondrial morphology dynamics. FASEB Journal, 2010, 24, 966.3.	0.2	0
72	Glia maturation factor activate mast cells and induce chemokine CCL2 release: Implication for neurodegenerative diseases. FASEB Journal, 2013, 27, 795.2.	0.2	0

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73	Glia Maturation Factor Stimulates Release of Proinflammatory Mediators from Mast Cells. FASEB Journal, 2015, 29, LB82.	0.2	0
74	Abstract TP224: Interleukin-37 Level is Elevated in Acute Ischemic Stroke. Stroke, 2017, 48, .	1.0	0
75	Mast Cell Proteases Activate Gliaâ€Neurons and Release Interleukinâ€33 by Activating MAPKs. FASEB Journal, 2018, 32, 805.22.	0.2	0
76	Glia Maturation Factor Dependent Mast Cell Activation and Calpain 1 Synergize Dopaminergic Neuronal Loss and Behavioral Deficits in an MPTP Mouse Model of Parkinson's Disease. FASEB Journal, 2019, 33, 791.7.	0.2	0
77	Glia Maturation Factorâ€Antibody Injection Reduces Behavioral Impairment, Neuro Inflammation and Amyloid Pathology in 5XFAD Mice Brains. FASEB Journal, 2019, 33, 791.1.	0.2	0
78	Coâ€localization of Glia Maturation Factor and Progranulin in the Human Alzheimer's Disease Brains. FASEB Journal, 2019, 33, 791.19.	0.2	0
79	Glia Maturation Factor Gene Editing Improves Neurocognitive Function in an Alzheimer's Disease Mouse Model. FASEB Journal, 2019, 33, 620.10.	0.2	0