

Gary E Landreth

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

89 papers	16,301 citations	49 h-index	97 g-index
97 ext. papers	18,673 ext. citations	8.5 avg, IF	6.38 L-index

#	Paper	IF	Citations
89	Inflammation and Alzheimer's disease. <i>Neurobiology of Aging</i> , 2000 , 21, 383-421	5.6	3490
88	Neuroinflammation in Alzheimer's disease. <i>Lancet Neurology, The</i> , 2015 , 14, 388-405	24.1	2760
87	ApoE-directed therapeutics rapidly clear β amyloid and reverse deficits in AD mouse models. <i>Science</i> , 2012 , 335, 1503-6	33.3	776
86	ApoE promotes the proteolytic degradation of A β . <i>Neuron</i> , 2008 , 58, 681-93	13.9	680
85	Acute treatment with the PPAR γ agonist pioglitazone and ibuprofen reduces glial inflammation and A β 1-42 levels in APPV717I transgenic mice. <i>Brain</i> , 2005 , 128, 1442-53	11.2	455
84	Anti-inflammatory drug therapy alters beta-amyloid processing and deposition in an animal model of Alzheimer's disease. <i>Journal of Neuroscience</i> , 2003 , 23, 7504-9	6.6	424
83	TREM2 deficiency eliminates TREM2+ inflammatory macrophages and ameliorates pathology in Alzheimer's disease mouse models. <i>Journal of Experimental Medicine</i> , 2015 , 212, 287-95	16.6	407
82	The role of microglia in amyloid clearance from the AD brain. <i>Journal of Neural Transmission</i> , 2010 , 117, 949-60	4.3	393
81	Inflammation, microglia, and Alzheimer's disease. <i>Neurobiology of Disease</i> , 2010 , 37, 503-9	7.5	350
80	Nonsteroidal anti-inflammatory drugs repress beta-secretase gene promoter activity by the activation of PPAR γ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 443-8	11.5	332
79	Microglial phagocytosis of fibrillar beta-amyloid through a beta1 integrin-dependent mechanism. <i>Journal of Neuroscience</i> , 2004 , 24, 9838-46	6.6	331
78	Identification of the mechanisms regulating the differential activation of the mapk cascade by epidermal growth factor and nerve growth factor in PC12 cells. <i>Journal of Biological Chemistry</i> , 2001 , 276, 18169-77	5.4	293
77	Mechanisms underlying the rapid peroxisome proliferator-activated receptor-mediated amyloid clearance and reversal of cognitive deficits in a murine model of Alzheimer's disease. <i>Journal of Neuroscience</i> , 2012 , 32, 10117-28	6.6	278
76	Microglia and inflammation in Alzheimer's disease. <i>CNS and Neurological Disorders - Drug Targets</i> , 2010 , 9, 156-67	2.6	275
75	Attenuation of neuroinflammation and Alzheimer's disease pathology by liver x receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 10601-6	11.5	262
74	Rosiglitazone monotherapy in mild-to-moderate Alzheimer's disease: results from a randomized, double-blind, placebo-controlled phase III study. <i>Dementia and Geriatric Cognitive Disorders</i> , 2010 , 30, 131-46	2.6	237
73	PPARs in the brain. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2007 , 1771, 1031-45	2.6	230

72	PPARgamma agonists as therapeutics for the treatment of Alzheimer's disease. <i>Neurotherapeutics</i> , 2008 , 5, 481-9	6.4	229
71	Disease Progression-Dependent Effects of TREM2 Deficiency in a Mouse Model of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2017 , 37, 637-647	6.6	225
70	Deletion of ERK2 mitogen-activated protein kinase identifies its key roles in cortical neurogenesis and cognitive function. <i>Journal of Neuroscience</i> , 2008 , 28, 6983-95	6.6	205
69	TREM2 in Neurodegenerative Diseases. <i>Molecular Neurodegeneration</i> , 2017 , 12, 56	19	176
68	The oral antidiabetic pioglitazone protects from neurodegeneration and amyotrophic lateral sclerosis-like symptoms in superoxide dismutase-G93A transgenic mice. <i>Journal of Neuroscience</i> , 2005 , 25, 7805-12	6.6	175
67	Specific functions for ERK/MAPK signaling during PNS development. <i>Neuron</i> , 2011 , 69, 91-105	13.9	153
66	MAPK signaling CNS development and cognition: an ERKsosome process. <i>Neuron</i> , 2009 , 61, 160-7	13.9	145
65	A randomized pilot clinical trial of the safety of pioglitazone in treatment of patients with Alzheimer disease. <i>Archives of Neurology</i> , 2011 , 68, 45-50		145
64	Mouse and human phenotypes indicate a critical conserved role for ERK2 signaling in neural crest development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 17115-20	11.5	134
63	Evidence for impaired amyloid clearance in Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2013 , 5, 33	9	133
62	A role for ERK MAP kinase in physiologic temporal integration in hippocampal area CA1. <i>Learning and Memory</i> , 2003 , 10, 26-39	2.8	128
61	The ERK2 mitogen-activated protein kinase regulates the timing of oligodendrocyte differentiation. <i>Journal of Neuroscience</i> , 2011 , 31, 843-50	6.6	127
60	The role of peroxisome proliferator-activated receptor-gamma (PPARgamma) in Alzheimer's disease: therapeutic implications. <i>CNS Drugs</i> , 2008 , 22, 1-14	6.7	121
59	Fibrillar beta-amyloid-stimulated intracellular signaling cascades require Vav for induction of respiratory burst and phagocytosis in monocytes and microglia. <i>Journal of Biological Chemistry</i> , 2006 , 281, 20842-20850	5.4	106
58	Nuclear receptors license phagocytosis by trem2+ myeloid cells in mouse models of Alzheimer's disease. <i>Journal of Neuroscience</i> , 2015 , 35, 6532-43	6.6	104
57	The 16p11.2 deletion mouse model of autism exhibits altered cortical progenitor proliferation and brain cytoarchitecture linked to the ERK MAPK pathway. <i>Journal of Neuroscience</i> , 2015 , 35, 3190-200	6.6	98
56	Sensory network dysfunction, behavioral impairments, and their reversibility in an Alzheimer's Amyloidosis mouse model. <i>Journal of Neuroscience</i> , 2011 , 31, 15962-71	6.6	96
55	The Trem2 R47H variant confers loss-of-function-like phenotypes in Alzheimer's disease. <i>Molecular Neurodegeneration</i> , 2018 , 13, 29	19	95

54	Therapeutic use of agonists of the nuclear receptor PPARgamma in Alzheimer's disease. <i>Current Alzheimer Research</i> , 2007 , 4, 159-64	3	87
53	Targeting innate immunity for neurodegenerative disorders of the central nervous system. <i>Journal of Neurochemistry</i> , 2016 , 138, 653-93	6	87
52	Psychosocial stress on neuroinflammation and cognitive dysfunctions in Alzheimer's disease: the emerging role for microglia?. <i>Neuroscience and Biobehavioral Reviews</i> , 2017 , 77, 148-164	9	80
51	In vivo measurement of apolipoprotein E from the brain interstitial fluid using microdialysis. <i>Molecular Neurodegeneration</i> , 2013 , 8, 13	19	79
50	Opposing effects of membrane-anchored CX3CL1 on amyloid and tau pathologies via the p38 MAPK pathway. <i>Journal of Neuroscience</i> , 2014 , 34, 12538-46	6.6	72
49	Nuclear receptors in neurodegenerative diseases. <i>Neurobiology of Disease</i> , 2014 , 72 Pt A, 104-16	7.5	67
48	ERK1-deficient mice show normal T cell effector function and are highly susceptible to experimental autoimmune encephalomyelitis. <i>Journal of Immunology</i> , 2005 , 175, 2374-80	5.3	66
47	Disrupted ERK signaling during cortical development leads to abnormal progenitor proliferation, neuronal and network excitability and behavior, modeling human neuro-cardio-facial-cutaneous and related syndromes. <i>Journal of Neuroscience</i> , 2012 , 32, 8663-77	6.6	65
46	Response to comments on "ApoE-directed therapeutics rapidly clear β amyloid and reverse deficits in AD mouse models". <i>Science</i> , 2013 , 340, 924-g	33.3	59
45	Combined Liver X Receptor/Peroxisome Proliferator-activated Receptor γ Agonist Treatment Reduces Amyloid Levels and Improves Behavior in Amyloid Precursor Protein/Presenilin 1 Mice. <i>Journal of Biological Chemistry</i> , 2015 , 290, 21591-602	5.4	58
44	Microglial interaction with beta-amyloid: implications for the pathogenesis of Alzheimer's disease. <i>Microscopy Research and Technique</i> , 2001 , 54, 59-70	2.8	58
43	Loss of interleukin receptor-associated kinase 4 signaling suppresses amyloid pathology and alters microglial phenotype in a mouse model of Alzheimer's disease. <i>Journal of Neuroscience</i> , 2012 , 32, 15112-23	6.6	55
42	Cholesterol-metabolizing enzyme cytochrome P450 46A1 as a pharmacologic target for Alzheimer's disease. <i>Neuropharmacology</i> , 2017 , 123, 465-476	5.5	53
41	PPARgamma agonists as new therapeutic agents for the treatment of Alzheimer's disease. <i>Experimental Neurology</i> , 2006 , 199, 245-8	5.7	49
40	Activation of the nuclear receptor PPAR γ 's neuroprotective in a transgenic mouse model of Alzheimer's disease through inhibition of inflammation. <i>Journal of Neuroinflammation</i> , 2015 , 12, 7	10.1	48
39	Role for peroxisome proliferator-activated receptor-gamma in Alzheimer's disease. <i>Annals of Neurology</i> , 2001 , 49, 276	9.4	48
38	Bexarotene reduces network excitability in models of Alzheimer's disease and epilepsy. <i>Neurobiology of Aging</i> , 2014 , 35, 2091-5	5.6	45
37	Therapeutic potential of nuclear receptor agonists in Alzheimer's disease. <i>Journal of Lipid Research</i> , 2017 , 58, 1937-1949	6.3	43

36	Pharmacological Inhibition of ERK Signaling Rescues Pathophysiology and Behavioral Phenotype Associated with 16p11.2 Chromosomal Deletion in Mice. <i>Journal of Neuroscience</i> , 2018 , 38, 6640-6652	6.6	39
35	Active PSF shaping and adaptive optics enable volumetric localization microscopy through brain sections. <i>Nature Methods</i> , 2018 , 15, 583-586	21.6	39
34	Omega-3 Fatty Acids Augment the Actions of Nuclear Receptor Agonists in a Mouse Model of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2015 , 35, 9173-81	6.6	38
33	A randomized controlled study to evaluate the effect of bexarotene on amyloid- β and apolipoprotein E metabolism in healthy subjects. <i>Alzheimer's and Dementia: Translational Research and Clinical Interventions</i> , 2016 , 2, 110-120	6	37
32	ABCA1 is Necessary for Bexarotene-Mediated Clearance of Soluble Amyloid Beta from the Hippocampus of APP/PS1 Mice. <i>Journal of Neuroimmune Pharmacology</i> , 2016 , 11, 61-72	6.9	36
31	Effect of anti-inflammatory agents on transforming growth factor beta over-expressing mouse brains: a model revised. <i>Journal of Neuroinflammation</i> , 2004 , 1, 11	10.1	36
30	ERK/MAPK signaling and autism spectrum disorders. <i>Progress in Brain Research</i> , 2018 , 241, 63-112	2.9	35
29	Three-dimensional nanoscopy of whole cells and tissues with in situ point spread function retrieval. <i>Nature Methods</i> , 2020 , 17, 531-540	21.6	32
28	Microglia depletion rapidly and reversibly alters amyloid pathology by modification of plaque compaction and morphologies. <i>Neurobiology of Disease</i> , 2020 , 142, 104956	7.5	28
27	TREM2 is required for microglial instruction of astrocytic synaptic engulfment in neurodevelopment. <i>Glia</i> , 2019 , 67, 1873-1892	9	28
26	ERK2 Alone Drives Inflammatory Pain But Cooperates with ERK1 in Sensory Neuron Survival. <i>Journal of Neuroscience</i> , 2015 , 35, 9491-507	6.6	27
25	Plaque-associated myeloid cells derive from resident microglia in an Alzheimer's disease model. <i>Journal of Experimental Medicine</i> , 2020 , 217,	16.6	22
24	Bexarotene targets autophagy and is protective against thromboembolic stroke in aged mice with tauopathy. <i>Scientific Reports</i> , 2016 , 6, 33176	4.9	21
23	PPAR γ Agonist GW0742 ameliorates dysfunction in fatty acid oxidation in PSEN1E9 astrocytes. <i>Glia</i> , 2019 , 67, 146-159	9	21
22	Dentate Gyrus Development Requires ERK Activity to Maintain Progenitor Population and MAPK Pathway Feedback Regulation. <i>Journal of Neuroscience</i> , 2015 , 35, 6836-48	6.6	20
21	Nuclear Receptors as Therapeutic Targets for Neurodegenerative Diseases: Lost in Translation. <i>Annual Review of Pharmacology and Toxicology</i> , 2019 , 59, 237-261	17.9	20
20	Muscle-derived extracellular signal-regulated kinases 1 and 2 are required for the maintenance of adult myofibers and their neuromuscular junctions. <i>Molecular and Cellular Biology</i> , 2015 , 35, 1238-53	4.8	19
19	Retinoids and motor neuron disease: Potential role in amyotrophic lateral sclerosis. <i>Journal of the Neurological Sciences</i> , 2016 , 360, 115-20	3.2	17

18	AI	Extraction from Murine Brain Homogenates. <i>Bio-protocol</i> , 2016 , 6,	0.9	16
17		INPP5D expression is associated with risk for Alzheimer's disease and induced by plaque-associated microglia. <i>Neurobiology of Disease</i> , 2021 , 153, 105303	7.5	16
16		Nuclear receptor agonist-driven modification of inflammation and amyloid pathology enhances and sustains cognitive improvements in a mouse model of Alzheimer's disease. <i>Journal of Neuroinflammation</i> , 2018 , 15, 43	10.1	12
15		Microglia in central nervous system diseases. <i>Journal of NeuroImmune Pharmacology</i> , 2009 , 4, 369-70	6.9	11
14		Physiological stress and nerve growth factor treatment regulate stress-activated protein kinase activity in PC12 cells. <i>Journal of Neurobiology</i> , 1998 , 36, 537-49		7
13		Trem2 Y38C mutation and loss of Trem2 impairs neuronal synapses in adult mice. <i>Molecular Neurodegeneration</i> , 2020 , 15, 62	19	7
12		Chronic impairment of ERK signaling in glutamatergic neurons of the forebrain does not affect spatial memory retention and LTP in the same manner as acute blockade of the ERK pathway. <i>Hippocampus</i> , 2017 , 27, 1239-1249	3.5	6
11		The effect of amyloid on microglia-neuron interactions before plaque onset occurs independently of TREM2 in a mouse model of Alzheimer's disease. <i>Neurobiology of Disease</i> , 2020 , 145, 105072	7.5	5
10		The niacin receptor HCAR2 modulates microglial response and limits disease progression in a mouse model of Alzheimer's disease.. <i>Science Translational Medicine</i> , 2022 , 14, eabl7634	17.5	3
9		PLCG2 is associated with the inflammatory response and is induced by amyloid plaques in Alzheimer's disease.. <i>Genome Medicine</i> , 2022 , 14, 17	14.4	2
8		Therapeutic potential of niacin in Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2020 , 16, e040679	1.2	1
7		Impact of PLCG2 expression on Microglial Biology and Disease Pathogenesis in Alzheimer's Disease.. <i>Alzheimer's and Dementia</i> , 2021 , 17 Suppl 2, e058740	1.2	0
6		Lipidated APOE has effects on cognitive function that are independent of amyloid- β pathology. <i>Brain</i> , 2015 , 138, 3470-2	11.2	
5		Neural-specific deletion of ERK2 results in frontal cortical neuropil thread formation and astrogliosis. <i>FASEB Journal</i> , 2007 , 21, A24	0.9	
4		02-07-06: The R47H Trem2 Variant Modifies Alzheimer's Disease Pathology and Neuroinflammation in a Novel Knock-In Mouse Model 2016 , 12, P243-P243		
3		P3-012: Advancing Therapeutics for Neuroinflammation in Alzheimer's Disease: Clinical Development Considerations 2016 , 12, P822-P822		
2		The role of microglia niacin receptor (HCAR2) in Alzheimer's disease.. <i>Alzheimer's and Dementia</i> , 2021 , 17 Suppl 3, e052716	1.2	
1		PLCG2 expression is associated with plaque-associated microglia in Alzheimer's disease.. <i>Alzheimer's and Dementia</i> , 2021 , 17 Suppl 3, e054755	1.2	

