

Jari Koistinaho

List of Publications by Year in descending order

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91
papers

10,674
citations

66343

42
h-index

48315

88
g-index

101
all docs

101
docs citations

101
times ranked

16574
citing authors

#	ARTICLE	IF	CITATIONS
1	Neuroinflammation in Alzheimer's disease. <i>Lancet Neurology</i> , The, 2015, 14, 388-405.	10.2	4,129
2	Minocycline, a Tetracycline Derivative, Is Neuroprotective against Excitotoxicity by Inhibiting Activation and Proliferation of Microglia. <i>Journal of Neuroscience</i> , 2001, 21, 2580-2588.	3.6	885
3	Bone-marrow-derived cells contribute to the recruitment of microglial cells in response to $\text{A}\beta$ -amyloid deposition in APP/PS1 double transgenic Alzheimer mice. <i>Neurobiology of Disease</i> , 2005, 18, 134-142.	4.4	273
4	Nuclear Factor- $\text{I}\kappa\text{B}$ Contributes to Infarction After Permanent Focal Ischemia. <i>Stroke</i> , 2004, 35, 987-991.	2.0	261
5	Intrahippocampal injection of a lentiviral vector expressing Nrf2 improves spatial learning in a mouse model of Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 16505-16510.	7.1	258
6	PSEN1 Mutant iPSC-Derived Model Reveals Severe Astrocyte Pathology in Alzheimer's Disease. <i>Stem Cell Reports</i> , 2017, 9, 1885-1897.	4.8	239
7	Improving Outcome after Stroke: Overcoming the Translational Roadblock. <i>Cerebrovascular Diseases</i> , 2008, 25, 268-278.	1.7	237
8	Nuclear factor erythroid 2-related factor 2 protects against beta amyloid. <i>Molecular and Cellular Neurosciences</i> , 2008, 39, 302-313.	2.2	218
9	Astrocytes protect neurons from nitric oxide toxicity by a glutathione-dependent mechanism. <i>Journal of Neurochemistry</i> , 2001, 77, 1601-1610.	3.9	217
10	Exosomes as new diagnostic tools in CNS diseases. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016, 1862, 403-410.	3.8	164
11	$\text{A}\beta$ -Amyloid precursor protein transgenic mice that harbor diffuse $\text{A}\beta$ deposits but do not form plaques show increased ischemic vulnerability: Role of inflammation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 1610-1615.	7.1	151
12	Transplanted astrocytes internalize deposited $\text{A}\beta$ -amyloid peptides in a transgenic mouse model of Alzheimer's disease. <i>Glia</i> , 2008, 56, 154-163.	4.9	148
13	Pyrrolidine Dithiocarbamate Activates Akt and Improves Spatial Learning in APP/PS1 Mice without Affecting $\text{A}\beta$ -Amyloid Burden. <i>Journal of Neuroscience</i> , 2007, 27, 3712-3721.	3.6	144
14	Interactions between Alzheimer's disease and cerebral ischemia—focus on inflammation. <i>Brain Research Reviews</i> , 2005, 48, 240-250.	9.0	134
15	PSEN1 ^{E9} , APP ^{swe} , and APOE4 Confer Disparate Phenotypes in Human iPSC-Derived Microglia. <i>Stem Cell Reports</i> , 2019, 13, 669-683.	4.8	132
16	Minocycline Protects against Permanent Cerebral Ischemia in Wild Type but Not in Matrix Metalloprotease-9-Deficient Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, 460-467.	4.3	115
17	The role of oxidative stress in degeneration of the neuromuscular junction in amyotrophic lateral sclerosis. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 131.	3.7	111
18	Nrf2 Regulates Neurogenesis and Protects Neural Progenitor Cells Against $\text{A}\beta$ Toxicity. <i>Stem Cells</i> , 2014, 32, 1904-1916.	3.2	110

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19	Structural Immaturity of Human iPSC-Derived Cardiomyocytes: In Silico Investigation of Effects on Function and Disease Modeling. <i>Frontiers in Physiology</i> , 2018, 9, 80.	2.8	110
20	Immunomodulation by interleukin-33 is protective in stroke through modulation of inflammation. <i>Brain, Behavior, and Immunity</i> , 2015, 49, 322-336.	4.1	107
21	Interleukin-33 treatment reduces secondary injury and improves functional recovery after contusion spinal cord injury. <i>Brain, Behavior, and Immunity</i> , 2015, 44, 68-81.	4.1	105
22	Metabolic alterations in Parkinson's disease astrocytes. <i>Scientific Reports</i> , 2020, 10, 14474.	3.3	104
23	Human intravenous immunoglobulin provides protection against A β toxicity by multiple mechanisms in a mouse model of Alzheimer's disease. <i>Journal of Neuroinflammation</i> , 2010, 7, 90.	7.2	90
24	Astrocyte alterations in neurodegenerative pathologies and their modeling in human induced pluripotent stem cell platforms. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 2739-2760.	5.4	88
25	Tetracycline derivatives and ceftriaxone, a cephalosporin antibiotic, protect neurons against apoptosis induced by ionizing radiation. <i>Journal of Neurochemistry</i> , 2001, 78, 1409-1414.	3.9	84
26	The role and therapeutic potential of monocytic cells in Alzheimer's disease. <i>Glia</i> , 2010, 58, 889-900.	4.9	84
27	Pyrrolidine dithiocarbamate inhibits translocation of nuclear factor kappa-B in neurons and protects against brain ischaemia with a wide therapeutic time window. <i>Journal of Neurochemistry</i> , 2004, 91, 755-765.	3.9	80
28	Multiple cellular and molecular mechanisms Are involved in human A β clearance by transplanted adult astrocytes. <i>Glia</i> , 2011, 59, 1643-1657.	4.9	78
29	ADAMTS proteoglycanases in the physiological and pathological central nervous system. <i>Journal of Neuroinflammation</i> , 2013, 10, 133.	7.2	77
30	Peripheral Administration of IL-13 Induces Anti-inflammatory Microglial/Macrophage Responses and Provides Neuroprotection in Ischemic Stroke. <i>Neurotherapeutics</i> , 2019, 16, 1304-1319.	4.4	77
31	Creation of a library of induced pluripotent stem cells from Parkinsonian patients. <i>Npj Parkinson's Disease</i> , 2016, 2, 16009.	5.3	74
32	Chondrogenic differentiation of human pluripotent stem cells in chondrocyte co-culture. <i>International Journal of Biochemistry and Cell Biology</i> , 2013, 45, 1802-1812.	2.8	70
33	Mechanisms of mutant SOD1 induced mitochondrial toxicity in amyotrophic lateral sclerosis. <i>Frontiers in Cellular Neuroscience</i> , 2014, 8, 126.	3.7	63
34	Altered Brain Endothelial Cell Phenotype from a Familial Alzheimer Mutation and Its Potential Implications for Amyloid Clearance and Drug Delivery. <i>Stem Cell Reports</i> , 2020, 14, 924-939.	4.8	63
35	Granulocyte colony stimulating factor attenuates inflammation in a mouse model of amyotrophic lateral sclerosis. <i>Journal of Neuroinflammation</i> , 2011, 8, 74.	7.2	58
36	The Microglia-activating Potential of Thrombin. <i>Journal of Biological Chemistry</i> , 2004, 279, 51880-51887.	3.4	50

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37	Utilization of APP ^{swe} /PS1 ^{dE9} Transgenic Mice in Research of Alzheimer's Disease: Focus on Gene Therapy and Cell-Based Therapy Applications. <i>International Journal of Alzheimer's Disease</i> , 2011, 2011, 1-8.	2.0	50
38	Antioxidant pyrrolidine dithiocarbamate activates Akt/GSK signaling and is neuroprotective in neonatal hypoxia-ischemia. <i>Free Radical Biology and Medicine</i> , 2006, 40, 1776-1784.	2.9	49
39	Gender-Specific Mechanism of Synaptic Impairment and Its Prevention by GCSF in a Mouse Model of ALS. <i>Frontiers in Cellular Neuroscience</i> , 2011, 5, 26.	3.7	47
40	Targeting Glycogen Synthase Kinase-3 for Therapeutic Benefit against Oxidative Stress in Alzheimer's Disease: Involvement of the Nrf2-ARE Pathway. <i>International Journal of Alzheimer's Disease</i> , 2011, 2011, 1-9.	2.0	46
41	PPAR α agonist GW0742 ameliorates dysfunction in fatty acid oxidation in PSEN1 ^{E9} astrocytes. <i>Glia</i> , 2019, 67, 146-159.	4.9	46
42	beta-Amyloid infusion results in delayed and age-dependent learning deficits without role of inflammation or beta-amyloid deposits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8852-8857.	7.1	45
43	Microglial amyloid beta clearance is driven by PIEZO1 channels. <i>Journal of Neuroinflammation</i> , 2022, 19, .	7.2	45
44	Minocycline reduces engraftment and activation of bone marrow-derived cells but sustains their phagocytic activity in a mouse model of Alzheimer's disease. <i>Glia</i> , 2008, 56, 1767-1779.	4.9	42
45	tPA promotes ADAMTS-4-induced CSPG degradation, thereby enhancing neuroplasticity following spinal cord injury. <i>Neurobiology of Disease</i> , 2014, 66, 28-42.	4.4	42
46	The Copper bis(thiosemicarbazone) Complex Cull(atSm) Is Protective Against Cerebral Ischemia Through Modulation of the Inflammatory Milieu. <i>Neurotherapeutics</i> , 2017, 14, 519-532.	4.4	42
47	Applications of the Keap1/Nrf2 system for gene and cell therapy. <i>Free Radical Biology and Medicine</i> , 2015, 88, 350-361.	2.9	41
48	Sex-specific transcriptional and proteomic signatures in schizophrenia. <i>Nature Communications</i> , 2019, 10, 3933.	12.8	41
49	Pyrrolidine dithiocarbamate activates the Nrf2 pathway in astrocytes. <i>Journal of Neuroinflammation</i> , 2016, 13, 49.	7.2	38
50	Blood-Brain Barrier and Neurodegenerative Diseases Modeling with iPSC-Derived Brain Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7710.	4.1	36
51	Ageing aggravates ischemic stroke-induced brain damage in mice with chronic peripheral infection. <i>Ageing Cell</i> , 2013, 12, 842-850.	6.7	35
52	Anti-inflammatory effects of ADAMTS in a mouse model of ischemic stroke. <i>Glia</i> , 2016, 64, 1492-1507.	4.9	35
53	Western-type diet modulates inflammatory responses and impairs functional outcome following permanent middle cerebral artery occlusion in aged mice expressing the human apolipoprotein E4 allele. <i>Journal of Neuroinflammation</i> , 2013, 10, 102.	7.2	32
54	Selective ferroptosis vulnerability due to familial Alzheimer's disease presenilin mutations. <i>Cell Death and Differentiation</i> , 2022, 29, 2123-2136.	11.2	32

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55	Bexarotene targets autophagy and is protective against thromboembolic stroke in aged mice with tauopathy. <i>Scientific Reports</i> , 2016, 6, 33176.	3.3	29
56	NF- κ B-related factor 2 activation boosts antioxidant defenses and ameliorates inflammatory and amyloid properties in human Presenilin-1 mutated Alzheimer's disease astrocytes. <i>Glia</i> , 2020, 68, 589-599.	4.9	27
57	Neuron-astrocyte transmitophagy is altered in Alzheimer's disease. <i>Neurobiology of Disease</i> , 2022, 170, 105753.	4.4	27
58	Production of monocytic cells from bone marrow stem cells: therapeutic usage in Alzheimer's disease. <i>Journal of Cellular and Molecular Medicine</i> , 2012, 16, 1060-1073.	3.6	26
59	Cull(atsm) Attenuates Neuroinflammation. <i>Frontiers in Neuroscience</i> , 2018, 12, 668.	2.8	26
60	Complex regulation of acute and chronic neuroinflammatory responses in mouse models deficient for nuclear factor kappa B p50 subunit. <i>Neurobiology of Disease</i> , 2014, 64, 16-29.	4.4	25
61	ADAMTS-4 promotes neurodegeneration in a mouse model of amyotrophic lateral sclerosis. <i>Molecular Neurodegeneration</i> , 2016, 11, 10.	10.8	25
62	The iPSC perspective on schizophrenia. <i>Trends in Neurosciences</i> , 2022, 45, 8-26.	8.6	24
63	Intracerebral overexpression of miR-669c is protective in mouse ischemic stroke model by targeting MyD88 and inducing alternative microglial/macrophage activation. <i>Journal of Neuroinflammation</i> , 2020, 17, 194.	7.2	22
64	Neurobiological roots of psychopathy. <i>Molecular Psychiatry</i> , 2020, 25, 3432-3441.	7.9	21
65	An arylthiazine derivative is a potent inhibitor of lipid peroxidation and ferroptosis providing neuroprotection in vitro and in vivo. <i>Scientific Reports</i> , 2021, 11, 3518.	3.3	20
66	Sulfosuccinimidyl oleate sodium is neuroprotective and alleviates stroke-induced neuroinflammation. <i>Journal of Neuroinflammation</i> , 2017, 14, 237.	7.2	18
67	Long-term interleukin-33 treatment delays disease onset and alleviates astrocytic activation in a transgenic mouse model of amyotrophic lateral sclerosis. <i>IBRO Reports</i> , 2019, 6, 74-86.	0.3	18
68	Does Nrf2 Gene Transfer Facilitate Recovery After Contusion Spinal Cord Injury?. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 1313-1323.	5.4	17
69	Brain Environment and Alzheimer's Disease Mutations Affect the Survival, Migration and Differentiation of Neural Progenitor Cells. <i>Current Alzheimer Research</i> , 2012, 9, 1030-1042.	1.4	16
70	Neuronal Dynamics and miRNA Signaling Differ between SH-SY5Y APP ^{Swe} and PSEN1 Mutant iPSC-Derived AD Models upon Modulation with miR-124 Mimic and Inhibitor. <i>Cells</i> , 2021, 10, 2424.	4.1	16
71	Deletion of Nuclear Factor kappa B p50 Subunit Decreases Inflammatory Response and Mildly Protects Neurons from Transient Forebrain Ischemia-induced Damage. , 2016, 7, 450.		14
72	Loss of CLN5 causes altered neurogenesis in a childhood neurodegenerative disorder. <i>DMM Disease Models and Mechanisms</i> , 2017, 10, 1089-1100.	2.4	14

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73	Molecular signaling pathways underlying schizophrenia. <i>Schizophrenia Research</i> , 2021, 232, 33-41.	2.0	14
74	Systemic Inflammation Induced Changes in Protein Expression of ABC Transporters and Ionotropic Glutamate Receptor Subunit 1 in the Cerebral Cortex of Familial Alzheimer's Disease Mouse Model. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 3953-3962.	3.3	14
75	ADAMTS in central nervous system pathologies. <i>Journal of Neuroscience Research</i> , 2017, 95, 1703-1711.	2.9	12
76	Developmental Dysfunction of the Central Nervous System Lymphatics Modulates the Adaptive Neuro-Immune Response in the Perilesional Cortex in a Mouse Model of Traumatic Brain Injury. <i>Frontiers in Immunology</i> , 2020, 11, 559810.	4.8	12
77	Contribution of astrocytes to familial risk and clinical manifestation of schizophrenia. <i>Glia</i> , 2022, 70, 650-660.	4.9	12
78	CNS Redox Homeostasis and Dysfunction in Neurodegenerative Diseases. <i>Antioxidants</i> , 2022, 11, 405.	5.1	11
79	Generation of a human induced pluripotent stem cell line from a patient with a rare A673T variant in amyloid precursor protein gene that reduces the risk for Alzheimer's disease. <i>Stem Cell Research</i> , 2018, 30, 96-99.	0.7	9
80	Loss of Cln5 leads to altered Gad1 expression and deficits in interneuron development in mice. <i>Human Molecular Genetics</i> , 2019, 28, 3309-3322.	2.9	9
81	Animal Models of Alzheimer's Disease: Utilization of Transgenic Alzheimer's Disease Models in Studies of Amyloid Beta Clearance. <i>Current Translational Geriatrics and Experimental Gerontology Reports</i> , 2012, 1, 11-20.	0.7	8
82	Generation of a human induced pluripotent stem cell line (LL008 1.4) from a familial Alzheimer's disease patient carrying a double KM670/671NL (Swedish) mutation in APP gene. <i>Stem Cell Research</i> , 2018, 31, 181-185.	0.7	7
83	Metabolic and immune dysfunction of glia in neurodegenerative disorders: Focus on iPSC models. <i>Stem Cells</i> , 2021, 39, 256-265.	3.2	7
84	Perineuronal nets in neurodegeneration. <i>Oncotarget</i> , 2016, 7, 78224-78225.	1.8	6
85	A β and Inflammatory Stimulus Activate Diverse Signaling Pathways in Monocytic Cells: Implications in Retaining Phagocytosis in A β -Laden Environment. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 279.	3.7	5
86	Generation of a human induced pluripotent stem cell line (UEFi003-A) carrying heterozygous A673T variant in amyloid precursor protein associated with a reduced risk of Alzheimer's disease. <i>Stem Cell Research</i> , 2020, 48, 101968.	0.7	5
87	Adult and neonatal astrocytes exhibit diverse gene expression profiles in response to beta amyloid <i>in vivo</i>. <i>World Journal of Neuroscience</i> , 2012, 02, 57-67.	0.1	5
88	Inactivation of mouse transmembrane prolyl 4-hydroxylase increases blood brain barrier permeability and ischemia-induced cerebral neuroinflammation. <i>Journal of Biological Chemistry</i> , 2022, 298, 101721.	3.4	2
89	Histochemical detection of age- and injury-related changes in signal transduction in the superior cervical ganglion. <i>Microscopy Research and Technique</i> , 1996, 35, 20-31.	2.2	1
90	07.7. NEUROBIOLOGICAL ROOTS OF SCHIZOPHRENIA. <i>Schizophrenia Bulletin</i> , 2019, 45, S182-S182.	4.3	0

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91	Studying non-“cell-autonomous neurodegeneration in Parkinson’s disease with induced pluripotent stem cells. , 2021, , 251-276.		0