Mikko Airavaara

List of Publications by Year in descending order

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80 papers	3,878 citations	117625 34 h-index	133252 59 g-index
83 all docs	83 docs citations	83 times ranked	5179 citing authors

#	Article	IF	Citations
1	Female C57BL/6J Mice Show Alcohol-Seeking Behaviour after Withdrawal from Prolonged Alcohol Consumption in the Social Environment. Alcohol and Alcoholism, 2022, 57, 405-412.	1.6	2
2	A novel variant in SMG9 causes intellectual disability, confirming a role for nonsense-mediated decay components in neurocognitive development. European Journal of Human Genetics, 2022, 30, 619-627.	2.8	6
3	Hesperine, a new imidazole alkaloid and Î±-synuclein binding activity of 1-methyl-1,2,7,8-tetrahydro-2,8-dioxoadenosine from the marine sponge Clathria (Thalysias) cf. hesperia. Results in Chemistry, 2022, 4, 100302.	2.0	4
4	Î±-Synuclein binding activity of the plant growth promoter asterubine. Bioorganic and Medicinal Chemistry Letters, 2022, 64, 128677.	2.2	4
5	Cell Culture Media, Unlike the Presence of Insulin, Affect Î±-Synuclein Aggregation in Dopaminergic Neurons. Biomolecules, 2022, 12, 563.	4.0	3
6	Nanoscale geometry determines mechanical biocompatibility of vertically aligned nanofibers. Acta Biomaterialia, 2022, 146, 235-247.	8.3	6
7	Modulating Microglia/Macrophage Activation by CDNF Promotes Transplantation of Fetal Ventral Mesencephalic Graft Survival and Function in a Hemiparkinsonian Rat Model. Biomedicines, 2022, 10, 1446.	3.2	6
8	Morphological Heterogeneity of the Endoplasmic Reticulum within Neurons and Its Implications in Neurodegeneration. Cells, 2021, 10, 970.	4.1	11
9	A target-agnostic screen identifies approved drugs to stabilize the endoplasmic reticulum-resident proteome. Cell Reports, 2021, 35, 109040.	6.4	18
10	Domain-Independent Inhibition of CBP/p300 Attenuates Î±-Synuclein Aggregation. ACS Chemical Neuroscience, 2021, 12, 2273-2279.	3.5	7
11	Cerebral dopamine neurotrophic factor reduces Î±-synuclein aggregation and propagation and alleviates behavioral alterations inÂvivo. Molecular Therapy, 2021, 29, 2821-2840.	8.2	26
12	The overexpression of GDNF in nucleus accumbens suppresses alcohol-seeking behavior in group-housed C57Bl/6J female mice. Journal of Biomedical Science, 2021, 28, 87.	7.0	3
13	Engineered antibody-functionalized porous silicon nanoparticles for therapeutic targeting of pro-survival pathway in endogenous neuroblasts after stroke. Biomaterials, 2020, 227, 119556.	11.4	23
14	Cerebral dopamine neurotrophic factorâ€“deficiency leads to degeneration of enteric neurons and altered brain dopamine neuronal function in mice. Neurobiology of Disease, 2020, 134, 104696.	4.4	33
15	Gene delivery for Parkinson's disease. , 2020, , 597-625.		0
16	Mitoxantrone, pixantrone and mitoxantrone (2-hydroxyethyl)piperazine are toll-like receptor 4 antagonists, inhibit NF-ÎºB activation, and decrease TNF-alpha secretion in primary microglia. European Journal of Pharmaceutical Sciences, 2020, 154, 105493.	4.0	6
17	<scp>GDNF</scp>/<scp>RET</scp> Signaling Pathway Activation Eliminates Lewy Body Pathology in Midbrain Dopamine Neurons. Movement Disorders, 2020, 35, 2279-2289.	3.9	27
18	Molecular profile of the rat peri-infarct region four days after stroke: Study with MANF. Experimental Neurology, 2020, 329, 113288.	4.1	18

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19	Back and to the Future: From Neurotoxinâ€Induced to Human Parkinson's Disease Models. Current Protocols in Neuroscience, 2020, 91, e88.	2.6	36
20	MANF Ablation Causes Prolonged Activation of the UPR without Neurodegeneration in the Mouse Midbrain Dopamine System. ENeuro, 2020, 7, ENEURO.0477-19.2019.	1.9	26
21	Studying Pre-formed Fibril Induced α-Synuclein Accumulation in Primary Embryonic Mouse Midbrain Dopamine Neurons. Journal of Visualized Experiments, 2020, , .	0.3	11
22	Neuronal Activation Stimulates Cytomegalovirus Promoter-Driven Transgene Expression. Molecular Therapy - Methods and Clinical Development, 2019, 14, 180-188.	4.1	6
23	Neuroprotective and reparative effects of endoplasmic reticulum luminal proteins â€“ mesencephalic astrocyte-derived neurotrophic factor and cerebral dopamine neurotrophic factor. Croatian Medical Journal, 2019, 60, 99-109.	0.7	17
24	Cerebral Dopamine Neurotrophic Factor Diffuses Around the Brainstem and Does Not Undergo Anterograde Transport After Injection to the Substantia Nigra. Frontiers in Neuroscience, 2019, 13, 590.	2.8	7
25	Secondary Pathology of the Thalamus after Focal Cortical Stroke in Rats is not Associated with Thermal or Mechanical Hypersensitivity and is Not Alleviated by Intra-Thalamic Post-Stroke Delivery of Recombinant CDNF or MANF. Cell Transplantation, 2019, 28, 425-438.	2.5	12
26	Effects of Neurotrophic Factors in Glial Cells in the Central Nervous System: Expression and Properties in Neurodegeneration and Injury. Frontiers in Physiology, 2019, 10, 486.	2.8	169
27	Neuron-Specific Genome Modification in the Adult Rat Brain Using CRISPR-Cas9 Transgenic Rats. Neuron, 2019, 102, 105-119.e8.	8.1	62
28	The Î¼-opioid receptor antagonist JDTic decreases ethanol intake in alcohol-preferring AA rats. Psychopharmacology, 2018, 235, 1581-1591.	3.1	6
29	Differential Spinal and Supraspinal Activation of Glia in a Rat Model of Morphine Tolerance. Neuroscience, 2018, 375, 10-24.	2.3	46
30	Combination of CDNF and Deep Brain Stimulation Decreases Neurological Deficits in Late-stage Model Parkinsonâ€™s Disease. Neuroscience, 2018, 374, 250-263.	2.3	27
31	Synthesis of 7Î²-hydroxy-8-ketone opioid derivatives with antagonist activity at mu- and delta-opioid receptors. European Journal of Medicinal Chemistry, 2018, 151, 495-507.	5.5	3
32	Towards developing a model to study alcohol drinking and craving in female mice housed in automated cages. Behavioural Brain Research, 2018, 352, 116-124.	2.2	15
33	MANF Promotes Differentiation and Migration of Neural Progenitor Cells with Potential Neural Regenerative Effects in Stroke. Molecular Therapy, 2018, 26, 238-255.	8.2	71
34	Post-stroke Intranasal (+)-Naloxone Delivery Reduces Microglial Activation and Improves Behavioral Recovery from Ischemic Injury. ENeuro, 2018, 5, ENEURO.0395-17.2018.	1.9	35
35	Downregulation of tyrosine hydroxylase phenotype after AAV injection above substantia nigra: Caution in experimental models of Parkinson's disease. Journal of Neuroscience Research, 2018, 97, 346-361.	2.9	24
36	Poststroke delivery of MANF promotes functional recovery in rats. Science Advances, 2018, 4, eaap8957.	10.3	64

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37	Pre-Î±-pro-GDNF and Pre-Î²-pro-GDNF Isoforms Are Neuroprotective in the 6-hydroxydopamine Rat Model of Parkinson's Disease. Frontiers in Neurology, 2018, 9, 457.	2.4	21
38	Implementation of deep neural networks to count dopamine neurons in substantia nigra. European Journal of Neuroscience, 2018, 48, 2354-2361.	2.6	38
39	Intranasal delivery of recombinant MANF protein is neuroprotective in cortical ischemia-reperfusion injury in rats. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO2-1-36.	0.0	0
40	Update of neurotrophic factors in neurobiology of addiction and future directions. Neurobiology of Disease, 2017, 97, 189-200.	4.4	48
41	Role of microglia in ischemic focal stroke and recovery: focus on Toll-like receptors. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2017, 79, 3-14.	4.8	90
42	Nigral injection of a proteasomal inhibitor, lactacystin, induces widespread glial cell activation and shows various phenotypes of Parkinsonâ€™s disease in young and adult mouse. Experimental Brain Research, 2017, 235, 2189-2202.	1.5	22
43	Multifunctional Nanotubeâ€“Mucoadhesive Poly(methyl vinyl etherâ€coâ€maleic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 Delivery. Advanced Healthcare Materials, 2017, 6, 1700629.	7.6	35
44	Development and plasticity of meningeal lymphatic vessels. Journal of Experimental Medicine, 2017, 214, 3645-3667.	8.5	311
45	9-cis retinoic acid induces neurorepair in stroke brain. Scientific Reports, 2017, 7, 4512.	3.3	14
46	AAV Vector-Mediated Gene Delivery to Substantia Nigra Dopamine Neurons: Implications for Gene Therapy and Disease Models. Genes, 2017, 8, 63.	2.4	43
47	Intrastriatally Infused Exogenous CDNF Is Endocytosed and Retrogradely Transported to Substantia Nigra. ENeuro, 2017, 4, ENEURO.0128-16.2017.	1.9	32
48	MANF Is Essential for Neurite Extension and Neuronal Migration in the Developing Cortex. ENeuro, 2017, 4, ENEURO.0214-17.2017.	1.9	48
49	Characterization of a new lowâ€dose 6â€hydroxydopamine model of Parkinson's disease in rat. Journal of Neuroscience Research, 2016, 94, 318-328.	2.9	39
50	Oral hypoglycaemic effect of GLP-1 and DPP4 inhibitor based nanocomposites in a diabetic animal model. Journal of Controlled Release, 2016, 232, 113-119.	9.9	44
51	Developing therapeutically more efficient Neurturin variants for treatment of Parkinson's disease. Neurobiology of Disease, 2016, 96, 335-345.	4.4	36
52	Accumbal Î¼â€Opioid Receptors Modulate Ethanol Intake in Alcoholâ€Preferring Alko Alcohol Rats. Alcoholism: Clinical and Experimental Research, 2016, 40, 2114-2123.	2.4	11
53	Therapeutic potential of the endoplasmic reticulum located and secreted CDNF/MANF family of neurotrophic factors in Parkinson's disease. FEBS Letters, 2015, 589, 3739-3748.	2.8	71
54	Role of two sequence motifs of mesencephalic astrocyte-derived neurotrophic factor in its survival-promoting activity. Cell Death and Disease, 2015, 6, e2032-e2032.	6.3	50

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55	Differentiation and molecular heterogeneity of inhibitory and excitatory neurons associated with midbrain dopaminergic nuclei. Development (Cambridge), 2015, 143, 516-29.	2.5	46
56	Prospects of Neurotrophic Factors for Parkinson's Disease: Comparison of Protein and Gene Therapy. Human Gene Therapy, 2015, 26, 550-559.	2.7	67
57	AAV-mediated targeting of gene expression to the peri-infarct region in rat cortical stroke model. Journal of Neuroscience Methods, 2014, 236, 107-113.	2.5	12
58	Short-term Preoperative Dietary Restriction Is Neuroprotective in a Rat Focal Stroke Model. PLoS ONE, 2014, 9, e93911.	2.5	29
59	Mesencephalic Astrocyte-derived Neurotrophic Factor (MANF) Secretion and Cell Surface Binding Are Modulated by KDEL Receptors. Journal of Biological Chemistry, 2013, 288, 4209-4225.	3.4	127
60	Local Administration of AAV-BDNF to Subventricular Zone Induces Functional Recovery in Stroke Rats. PLoS ONE, 2013, 8, e81750.	2.5	51
61	CDNF Protects the Nigrostriatal Dopamine System and Promotes Recovery after MPTP Treatment in Mice. Cell Transplantation, 2012, 21, 1213-1223.	2.5	112
62	Neurorestoration. Parkinsonism and Related Disorders, 2012, 18, S143-S146.	2.2	38
63	Suppression of endogenous PPARÎ³ increases vulnerability to methamphetamine-induced injury in mouse nigrostriatal dopaminergic pathway. Psychopharmacology, 2012, 221, 479-492.	3.1	9
64	Neurobiology of the incubation of drug craving. Trends in Neurosciences, 2011, 34, 411-420.	8.6	555
65	Targeted Over-Expression of Glutamate Transporter 1 (GLT-1) Reduces Ischemic Brain Injury in a Rat Model of Stroke. PLoS ONE, 2011, 6, e22135.	2.5	94
66	Endogenous GDNF in ventral tegmental area and nucleus accumbens does not play a role in the incubation of heroin craving. Addiction Biology, 2011, 16, 261-272.	2.6	52
67	Transgenic animal models of neurodegeneration based on human genetic studies. Journal of Neural Transmission, 2011, 118, 27-45.	2.8	38
68	Identification of Novel GDNF Isoforms and cis-Antisense GDNFOS Gene and Their Regulation in Human Middle Temporal Gyrus of Alzheimer Disease*. Journal of Biological Chemistry, 2011, 286, 45093-45102.	3.4	86
69	Role of BDNF and GDNF in drug reward and relapse: A review. Neuroscience and Biobehavioral Reviews, 2010, 35, 157-171.	6.1	187
70	Viral vectors for neurotrophic factor delivery: A gene therapy approach for neurodegenerative diseases of the CNS. Pharmacological Research, 2010, 61, 14-26.	7.1	116
71	Widespread cortical expression of MANF by AAV serotype 7: Localization and protection against ischemic brain injury. Experimental Neurology, 2010, 225, 104-113.	4.1	78
72	Mesencephalic astrocyteâ€derived neurotrophic factor reduces ischemic brain injury and promotes behavioral recovery in rats. Journal of Comparative Neurology, 2009, 515, 116-124.	1.6	132

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73	P2.002 Intranigral injection of CDNF promotes functional recovery of nigrostriatal dopaminergic circuit in a lesion model of Parkinson's disease. Parkinsonism and Related Disorders, 2009, 15, S88-S89.	2.2	1
74	Characterization of the striatal dopaminergic neurotransmission in MEN2B mice with elevated cerebral tissue dopamine. Journal of Neurochemistry, 2008, 105, 1716-1725.	3.9	16
75	Chronic nicotine modifies the effects of morphine on extracellular striatal dopamine and ventral tegmental GABA. Journal of Neurochemistry, 2008, 107, 844-854.	3.9	43
76	Constitutive Ret Activity in Knock-In Multiple Endocrine Neoplasia Type B Mice Induces Profound Elevation of Brain Dopamine Concentration via Enhanced Synthesis and Increases the Number of TH-Positive Cells in the Substantia Nigra. Journal of Neuroscience, 2007, 27, 4799-4809.	3.6	63
77	Effects of repeated morphine on locomotion, place preference and dopamine in heterozygous glial cell line-derived neurotrophic factor knockout mice. Genes, Brain and Behavior, 2007, 6, 287-298.	2.2	22
78	In heterozygous GDNF knockout mice the response of striatal dopaminergic system to acute morphine is altered. Synapse, 2006, 59, 321-329.	1.2	45
79	Increased extracellular dopamine concentrations and FosB/Î”FosB expression in striatal brain areas of heterozygous GDNF knockout mice. European Journal of Neuroscience, 2004, 20, 2336-2344.	2.6	53
80	UPR Responsive Genes Manf and Xbp1 in Stroke. Frontiers in Cellular Neuroscience, 0, 16, .	3.7	10