

Henriette van Praag

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

24,481
citations

38660

50
h-index

48187

88
g-index

99
all docs

99
docs citations

99
times ranked

18895
citing authors

#	ARTICLE	IF	CITATIONS
1	Running increases cell proliferation and neurogenesis in the adult mouse dentate gyrus. <i>Nature Neuroscience</i> , 1999, 2, 266-270.	7.1	3,370
2	Functional neurogenesis in the adult hippocampus. <i>Nature</i> , 2002, 415, 1030-1034.	13.7	2,558
3	Running enhances neurogenesis, learning, and long-term potentiation in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 13427-13431.	3.3	2,499
4	Neural consequences of environmental enrichment. <i>Nature Reviews Neuroscience</i> , 2000, 1, 191-198.	4.9	2,147
5	Exercise Enhances Learning and Hippocampal Neurogenesis in Aged Mice. <i>Journal of Neuroscience</i> , 2005, 25, 8680-8685.	1.7	1,796
6	Adult brain neurogenesis and psychiatry: a novel theory of depression. <i>Molecular Psychiatry</i> , 2000, 5, 262-269.	4.1	849
7	Bridging animal and human models of exercise-induced brain plasticity. <i>Trends in Cognitive Sciences</i> , 2013, 17, 525-544.	4.0	748
8	Effects of voluntary exercise on synaptic plasticity and gene expression in the dentate gyrus of adult male spragueâ€dawley rats in vivo. <i>Neuroscience</i> , 2004, 124, 71-79.	1.1	714
9	Enriched environment and physical activity stimulate hippocampal but not olfactory bulb neurogenesis. <i>European Journal of Neuroscience</i> , 2003, 17, 2042-2046.	1.2	673
10	Combined adult neurogenesis and BDNF mimic exercise effects on cognition in an Alzheimerâ€™s mouse model. <i>Science</i> , 2018, 361, .	6.0	536
11	Neurogenesis and Exercise: Past and Future Directions. <i>NeuroMolecular Medicine</i> , 2008, 10, 128-140.	1.8	521
12	Synapse formation on neurons born in the adult hippocampus. <i>Nature Neuroscience</i> , 2007, 10, 727-734.	7.1	499
13	Exercise and the brain: something to chew on. <i>Trends in Neurosciences</i> , 2009, 32, 283-290.	4.2	485
14	Running enhances spatial pattern separation in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 2367-2372.	3.3	440
15	Running-Induced Systemic Cathepsin B Secretion Is Associated with Memory Function. <i>Cell Metabolism</i> , 2016, 24, 332-340.	7.2	375
16	When neurogenesis encounters aging and disease. <i>Trends in Neurosciences</i> , 2010, 33, 569-579.	4.2	337
17	Functional Convergence of Neurons Generated in the Developing and Adult Hippocampus. <i>PLoS Biology</i> , 2006, 4, e409.	2.6	317
18	Running is the neurogenic and neurotrophic stimulus in environmental enrichment. <i>Learning and Memory</i> , 2011, 18, 605-609.	0.5	315

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19	All About Running: Synaptic Plasticity, Growth Factors and Adult Hippocampal Neurogenesis. <i>Current Topics in Behavioral Neurosciences</i> , 2012, 15, 189-210.	0.8	293
20	Exerkines in health, resilience and disease. <i>Nature Reviews Endocrinology</i> , 2022, 18, 273-289.	4.3	268
21	Running throughout middle age improves memory function, hippocampal neurogenesis, and BDNF levels in female C57BL/6J mice. <i>Developmental Neurobiology</i> , 2012, 72, 943-952.	1.5	261
22	A Packaging Cell Line for Lentivirus Vectors. <i>Journal of Virology</i> , 1999, 73, 576-584.	1.5	260
23	Plant-Derived Flavanol (-)Epicatechin Enhances Angiogenesis and Retention of Spatial Memory in Mice. <i>Journal of Neuroscience</i> , 2007, 27, 5869-5878.	1.7	256
24	Monosynaptic inputs to new neurons in the dentate gyrus. <i>Nature Communications</i> , 2012, 3, 1107.	5.8	244
25	Lentiviral Vectors: Regulated Gene Expression. <i>Molecular Therapy</i> , 2000, 1, 516-521.	3.7	240
26	Can physical exercise in old age improve memory and hippocampal function?. <i>Brain</i> , 2016, 139, 662-673.	3.7	231
27	Exercise increases hippocampal neurogenesis to high levels but does not improve spatial learning in mice bred for increased voluntary wheel running.. <i>Behavioral Neuroscience</i> , 2003, 117, 1006-1016.	0.6	225
28	Tumor necrosis factor- α synthesis inhibitor 3,6-dithiothalidomide attenuates markers of inflammation, Alzheimer pathology and behavioral deficits in animal models of neuroinflammation and Alzheimer's disease. <i>Journal of Neuroinflammation</i> , 2012, 9, 106.	3.1	179
29	Chapter 3 Activity-dependent regulation of neuronal plasticity and self repair. <i>Progress in Brain Research</i> , 2000, 127, 35-48.	0.9	174
30	Ataxia telangiectasia mutated is essential during adult neurogenesis. <i>Genes and Development</i> , 2001, 15, 554-566.	2.7	144
31	Exercise and Hippocampal Memory Systems. <i>Trends in Cognitive Sciences</i> , 2019, 23, 318-333.	4.0	141
32	Running rewires the neuronal network of adult-born dentate granule cells. <i>NeuroImage</i> , 2016, 131, 29-41.	2.1	124
33	On the Run for Hippocampal Plasticity. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2018, 8, a029736.	2.9	120
34	Exercise, Energy Intake, Glucose Homeostasis, and the Brain. <i>Journal of Neuroscience</i> , 2014, 34, 15139-15149.	1.7	117
35	Functional circuits of new neurons in the dentate gyrus. <i>Frontiers in Neural Circuits</i> , 2013, 7, 15.	1.4	112
36	AMPK agonist AICAR improves cognition and motor coordination in young and aged mice. <i>Learning and Memory</i> , 2014, 21, 119-126.	0.5	102

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37	Running reduces stress and enhances cell genesis in aged mice. <i>Neurobiology of Aging</i> , 2011, 32, 2279-2286.	1.5	93
38	Endurance factors improve hippocampal neurogenesis and spatial memory in mice. <i>Learning and Memory</i> , 2011, 18, 103-107.	0.5	93
39	TLR2 activation inhibits embryonic neural progenitor cell proliferation. <i>Journal of Neurochemistry</i> , 2010, 114, 462-474.	2.1	91
40	Comparison of neurogenic effects of fluoxetine, duloxetine and running in mice. <i>Brain Research</i> , 2010, 1341, 93-99.	1.1	87
41	Running Changes the Brain: the Long and the Short of It. <i>Physiology</i> , 2017, 32, 410-424.	1.6	87
42	Prolonged Running, not Fluoxetine Treatment, Increases Neurogenesis, but does not Alter Neuropathology, in the 3xTg Mouse Model of Alzheimer's Disease. <i>Current Topics in Behavioral Neurosciences</i> , 2013, 15, 313-340.	0.8	85
43	Maternal immune activation differentially impacts mature and adult-born hippocampal neurons in male mice. <i>Brain, Behavior, and Immunity</i> , 2015, 45, 60-70.	2.0	72
44	Reduced mitochondrial fusion and Huntingtin levels contribute to impaired dendritic maturation and behavioral deficits in Fmr1-mutant mice. <i>Nature Neuroscience</i> , 2019, 22, 386-400.	7.1	67
45	Plant-derived flavanol (âˆ“)epicatechin mitigates anxiety in association with elevated hippocampal monoamine and BDNF levels, but does not influence pattern separation in mice. <i>Translational Psychiatry</i> , 2015, 5, e493-e493.	2.4	64
46	JNK1 controls adult hippocampal neurogenesis and imposes cell-autonomous control of anxiety behaviour from the neurogenic niche. <i>Molecular Psychiatry</i> , 2018, 23, 362-374.	4.1	62
47	Exercise is not beneficial and may accelerate symptom onset in a mouse model of Huntington's disease. <i>PLOS Currents</i> , 2010, 2, RRN1201.	1.4	60
48	The role of glutamate in opiate descending inhibition of nociceptive spinal reflexes. <i>Brain Research</i> , 1990, 524, 101-105.	1.1	59
49	Exercise in a Pill: The Latest on Exercise-Mimetics. <i>Brain Plasticity</i> , 2017, 2, 153-169.	1.9	59
50	The development of stimulation-produced analgesia (SPA) in the rat. <i>Developmental Brain Research</i> , 1991, 64, 71-76.	2.1	56
51	Effects of Aerobic Exercise Training on Systemic Biomarkers and Cognition in Late Middle-Aged Adults at Risk for Alzheimer's Disease. <i>Frontiers in Endocrinology</i> , 2021, 12, 660181.	1.5	55
52	Running reorganizes the circuitry of one-week-old adult-born hippocampal neurons. <i>Scientific Reports</i> , 2017, 7, 10903.	1.6	50
53	Regulation of AMPA receptor channels and synaptic plasticity by cofilin phosphatase Slingshot in cortical neurons. <i>Journal of Physiology</i> , 2010, 588, 2361-2371.	1.3	47
54	Unilateral hippocampal lesions in newborn and adult rats: effects on spatial memory and BDNF gene expression. <i>Behavioural Brain Research</i> , 1998, 92, 21-30.	1.2	40

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55	Exercise-mimetic AICAR transiently benefits brain function. <i>Oncotarget</i> , 2015, 6, 18293-18313.	0.8	40
56	Cognitive Impairments Induced by Concussive Mild Traumatic Brain Injury in Mouse Are Ameliorated by Treatment with Phenserine via Multiple Non-Cholinergic and Cholinergic Mechanisms. <i>PLoS ONE</i> , 2016, 11, e0156493.	1.1	36
57	EEG asymmetries may be affected by cranial and Brain parenchymal asymmetries. <i>Brain Topography</i> , 1989, 1, 221-228.	0.8	35
58	Steps towards standardized quantification of adult neurogenesis. <i>Nature Communications</i> , 2020, 11, 4275.	5.8	34
59	Molecular changes in brain aging and Alzheimer's disease are mirrored in experimentally silenced cortical neuron networks. <i>Neurobiology of Aging</i> , 2012, 33, 205.e1-205.e18.	1.5	33
60	A role for bone marrow-derived cells in the vasculature of noninjured CNS. <i>Blood</i> , 2005, 105, 2400-2402.	0.6	28
61	Muscle Over Mind. <i>Cell Metabolism</i> , 2014, 20, 560-562.	7.2	26
62	Stage-specific functions of Semaphorin7A during adult hippocampal neurogenesis rely on distinct receptors. <i>Nature Communications</i> , 2017, 8, 14666.	5.8	26
63	Evidence for opiate tolerance in newborn rats. <i>Developmental Brain Research</i> , 1991, 60, 99-102.	2.1	25
64	Conditioned media from AICAR-treated skeletal muscle cells increases neuronal differentiation of adult neural progenitor cells. <i>Neuropharmacology</i> , 2019, 145, 123-130.	2.0	24
65	The HIV-1 Rev/RRE system is required for HIV-1 5' UTR cis elements to augment encapsidation of heterologous RNA into HIV-1 viral particles. <i>Retrovirology</i> , 2011, 8, 51.	0.9	23
66	Can exercise training teach us how to treat Alzheimer's disease?. <i>Ageing Research Reviews</i> , 2022, 75, 101559.	5.0	23
67	Topoisomerase 3 β knockout mice show transcriptional and behavioural impairments associated with neurogenesis and synaptic plasticity. <i>Nature Communications</i> , 2020, 11, 3143.	5.8	22
68	Dissociation of Motor Hyperactivity and Spatial Memory Deficits by Selective Hippocampal Lesions in the Neonatal Rat. <i>Journal of Cognitive Neuroscience</i> , 1994, 6, 321-331.	1.1	19
69	Neurochemical and behavioral comparisons of contingent and non-contingent methamphetamine exposure following binge or yoked long-access self-administration paradigms. <i>Psychopharmacology</i> , 2020, 237, 1989-2005.	1.5	19
70	Neuron-Specific Expression of Tomosyn1 in the Mouse Hippocampal Dentate Gyrus Impairs Spatial Learning and Memory. <i>NeuroMolecular Medicine</i> , 2013, 15, 351-363.	1.8	17
71	Unilateral Neonatal Hippocampal Lesion Alters Septal Innervation and Trophism of the Entorhinal Cortex. <i>Experimental Neurology</i> , 1996, 141, 130-140.	2.0	14
72	TAGing APP constrains neurogenesis. <i>Nature Cell Biology</i> , 2008, 10, 249-250.	4.6	14

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73	Bilateral alpha distribution and anatomic brain asymmetries. <i>Brain Topography</i> , 1989, 1, 229-235.	0.8	13
74	Exercise and the Brain: Neurogenesis, Synaptic Plasticity, Spine Density, and Angiogenesis. , 2012, , 3-24.		13
75	The effects of systemic morphine on behavior and EEG in newborn rats. <i>Developmental Brain Research</i> , 1992, 67, 19-26.	2.1	12
76	Lifestyle Factors and Alzheimer's Disease. <i>Brain Plasticity</i> , 2018, 4, 1-2.	1.9	12
77	Activity-Dependent Reconnection of Adult-Born Dentate Granule Cells in a Mouse Model of Frontotemporal Dementia. <i>Journal of Neuroscience</i> , 2019, 39, 5794-5815.	1.7	12
78	Neonatal vs. adult unilateral hippocampal lesions: differential alterations in contralateral hippocampal theta rhythm. <i>Brain Research</i> , 1997, 768, 233-241.	1.1	11
79	Unilateral hippocampal ablation at birth causes a reduction in contralateral LTP. <i>Brain Research</i> , 1998, 795, 170-178.	1.1	11
80	AdipoRon Treatment Induces a Dose-Dependent Response in Adult Hippocampal Neurogenesis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2068.	1.8	11
81	Genetics of Childhood Disorders: XXXVI. Stem Cell Research, Part 1: New Neurons in the Adult Brain. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 2002, 41, 354-356.	0.3	9
82	Muscle Fatigue and Cognition: What is the Link?. <i>Frontiers in Physiology</i> , 2012, 3, 14.	1.3	6
83	Physical Activity and Brain Plasticity. <i>Journal of Exercise Nutrition & Biochemistry</i> , 2019, 23, 23-25.	1.3	4
84	The development of analgesic, pro- and anti-convulsant opiate effects in the rat. <i>Annali Dell'Istituto Superiore Di Sanita</i> , 1993, 29, 419-29.	0.2	4
85	Neurogenesis and Exercise. , 2010, , 404-409.		2
86	An exercise infusion benefits brain function. <i>Cell Research</i> , 2022, , .	5.7	2
87	Are drug targets missed owing to lack of physical activity? "Reply". <i>Drug Discovery Today</i> , 2001, 6, 615-617.	3.2	1
88	"Exercise increases hippocampal neurogenesis to high levels but does not improve spatial learning in mice bred for increased voluntary wheel running": Correction to Rhodes et al. (2003).. <i>Behavioral Neuroscience</i> , 2004, 118, 305-305.	0.6	1
89	Exercise Effects on Cognitive Function in Humans. <i>Brain Plasticity</i> , 2019, 5, 1-2.	1.9	1
90	Effects of Combined Anti-Hypertensive and Statin Treatment on Memory, Fear Extinction, Adult Neurogenesis, and Angiogenesis in Adult and Middle-Aged Mice. <i>Cells</i> , 2021, 10, 1778.	1.8	1

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91	Physical activity and muscle-brain crosstalk. Japanese Journal of Physical Fitness and Sports Medicine, 2020, 69, 12-12.	0.0	0