# Henriette van Praag

List of Publications by Year
in descending order



| 91 | 24,481 | 38742 50 | 48315 88 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 99 | 99 | 99 | 18895 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Running increases cell proliferation and neurogenesis in the adult mouse dentate gyrus. Nature Neuroscience, 1999, 2, 266-270. | 14.8 | 3,370 |
| 2 | Functional neurogenesis in the adult hippocampus. Nature, 2002, 415, 1030-1034. | 27.8 | 2,558 |
| 3 | Running enhances neurogenesis, learning, and long-term potentiation in mice. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 13427-13431. | 7.1 | 2,499 |
| 4 | Neural consequences of enviromental enrichment. Nature Reviews Neuroscience, 2000, 1, 191-198. | 10.2 | 2,147 |
| 5 | Exercise Enhances Learning and Hippocampal Neurogenesis in Aged Mice. Journal of Neuroscience, 2005, 25, 8680-8685. | 3.6 | 1,796 |
| 6 | Adult brain neurogenesis and psychiatry: a novel theory of depression. Molecular Psychiatry, 2000, 5, 262-269. | 7.9 | 849 |
| 7 | Bridging animal and human models of exercise-induced brain plasticity. Trends in Cognitive Sciences, 2013, 17, 525-544. | 7.8 | 748 |
| 8 | Effects of voluntary exercise on synaptic plasticity and gene expression in the dentate gyrus of adult male sprague–dawley rats in vivo. Neuroscience, 2004, 124, 71-79. | 2.3 | 714 |
| 9 | Enriched environment and physical activity stimulate hippocampal but not olfactory bulb neurogenesis. European Journal of Neuroscience, 2003, 17, 2042-2046. | 2.6 | 673 |
| 10 | Combined adult neurogenesis and BDNF mimic exercise effects on cognition in an Alzheimer's mouse model. Science, 2018, 361, . | 12.6 | 536 |
| 11 | Neurogenesis and Exercise: Past and Future Directions. NeuroMolecular Medicine, 2008, 10, 128-140. | 3.4 | 521 |
| 12 | Synapse formation on neurons born in the adult hippocampus. Nature Neuroscience, 2007, 10, 727-734. | 14.8 | 499 |
| 13 | Exercise and the brain: something to chew on. Trends in Neurosciences, 2009, 32, 283-290. | 8.6 | 485 |
| 14 | Running enhances spatial pattern separation in mice. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 2367-2372. | 7.1 | 440 |
| 15 | Running-Induced Systemic Cathepsin B Secretion Is Associated with Memory Function. Cell Metabolism, 2016, 24, 332-340. | 16.2 | 375 |
| 16 | When neurogenesis encounters aging and disease. Trends in Neurosciences, 2010, 33, 569-579. | 8.6 | 337 |
| 17 | Functional Convergence of Neurons Generated in the Developing and Adult Hippocampus. PLoS Biology, 2006, 4, e409. | 5.6 | 317 |
| 18 | Running is the neurogenic and neurotrophic stimulus in environmental enrichment. Learning and Memory, 2011, 18, 605-609. | 1.3 | 315 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | All About Running: Synaptic Plasticity, Growth Factors and Adult Hippocampal Neurogenesis. Current Topics in Behavioral Neurosciences, 2012, 15, 189-210. | 1.7 | 293 |
| 20 | Exerkines in health, resilience and disease. Nature Reviews Endocrinology, 2022, 18, 273-289. | 9.6 | 268 |
| 21 | Running throughout middleâ€age improves memory function, hippocampal neurogenesis, and BDNF levels in female C57BL/6J mice. Developmental Neurobiology, 2012, 72, 943-952. | 3.0 | 261 |
| 22 | A Packaging Cell Line for Lentivirus Vectors. Journal of Virology, 1999, 73, 576-584. | 3.4 | 260 |
| 23 | Plant-Derived Flavanol (-)Epicatechin Enhances Angiogenesis and Retention of Spatial Memory in Mice. Journal of Neuroscience, 2007, 27, 5869-5878. | 3.6 | 256 |
| 24 | Monosynaptic inputs to new neurons in the dentate gyrus. Nature Communications, 2012, 3, 1107. | 12.8 | 244 |
| 25 | Lentiviral Vectors: Regulated Gene Expression. Molecular Therapy, 2000, 1, 516-521. | 8.2 | 240 |
| 26 | Can physical exercise in old age improve memory and hippocampal function?. Brain, 2016, 139, 662-673. | 7.6 | 231 |
| 27 | Exercise increases hippocampal neurogenesis to high levels but does not improve spatial learning in mice bred for increased voluntary wheel running.. Behavioral Neuroscience, 2003, 117, 1006-1016. | 1.2 | 225 |
| 28 | Tumor necrosis factor-Î± synthesis inhibitor 3,6â€²-dithiothalidomide attenuates markers of inflammation, Alzheimer pathology and behavioral deficits in animal models of neuroinflammation and Alzheimerâ€™s disease. Journal of Neuroinflammation, 2012, 9, 106. | 7.2 | 179 |
| 29 | Chapter 3 Activity-dependent regulation of neuronal plasticity and self repair. Progress in Brain Research, 2000, 127, 35-48. | 1.4 | 174 |
| 30 | Ataxia telangiectasia mutated is essential during adult neurogenesis. Genes and Development, 2001, 15, 554-566. | 5.9 | 144 |
| 31 | Exercise and Hippocampal Memory Systems. Trends in Cognitive Sciences, 2019, 23, 318-333. | 7.8 | 141 |
| 32 | Running rewires the neuronal network of adult-born dentate granule cells. NeuroImage, 2016, 131, 29-41. | 4.2 | 124 |
| 33 | On the Run for Hippocampal Plasticity. Cold Spring Harbor Perspectives in Medicine, 2018, 8, a029736. | 6.2 | 120 |
| 34 | Exercise, Energy Intake, Glucose Homeostasis, and the Brain. Journal of Neuroscience, 2014, 34, 15139-15149. | 3.6 | 117 |
| 35 | Functional circuits of new neurons in the dentate gyrus. Frontiers in Neural Circuits, 2013, 7, 15. | 2.8 | 112 |
| 36 | AMPK agonist AICAR improves cognition and motor coordination in young and aged mice. Learning and Memory, 2014, 21, 119-126. | 1.3 | 102 |

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|---|---|---|---|
| 37 | Running reduces stress and enhances cell genesis in aged mice. Neurobiology of Aging, 2011, 32, 2279-2286. | 3.1 | 93 |
| 38 | Endurance factors improve hippocampal neurogenesis and spatial memory in mice. Learning and Memory, 2011, 18, 103-107. | 1.3 | 93 |
| 39 | TLR2 activation inhibits embryonic neural progenitor cell proliferation. Journal of Neurochemistry, 2010, 114, 462-474. | 3.9 | 91 |
| 40 | Comparison of neurogenic effects of fluoxetine, duloxetine and running in mice. Brain Research, 2010, 1341, 93-99. | 2.2 | 87 |
| 41 | Running Changes the Brain: the Long and the Short of It. Physiology, 2017, 32, 410-424. | 3.1 | 87 |
| 42 | Prolonged Running, not Fluoxetine Treatment, Increases Neurogenesis, but does not Alter Neuropathology, in the 3xTg Mouse Model of Alzheimerâ€™s Disease. Current Topics in Behavioral Neurosciences, 2013, 15, 313-340. | 1.7 | 85 |
| 43 | Maternal immune activation differentially impacts mature and adult-born hippocampal neurons in male mice. Brain, Behavior, and Immunity, 2015, 45, 60-70. | 4.1 | 72 |
| 44 | Reduced mitochondrial fusion and Huntingtin levels contribute to impaired dendritic maturation and behavioral deficits in Fmr1-mutant mice. Nature Neuroscience, 2019, 22, 386-400. | 14.8 | 67 |
| 45 | Plant-derived flavanol (â˜)epicatechin mitigates anxiety in association with elevated hippocampal monoamine and BDNF levels, but does not influence pattern separation in mice. Translational Psychiatry, 2015, 5, e493-e493. | 4.8 | 64 |
| 46 | JNK1 controls adult hippocampal neurogenesis and imposes cell-autonomous control of anxiety behaviour from the neurogenic niche. Molecular Psychiatry, 2018, 23, 362-374. | 7.9 | 62 |
| 47 | Exercise is not beneficial and may accelerate symptom onset in a mouse model of Huntingtonâ€™s disease. PLOS Currents, 2010, 2, RRN1201. | 1.4 | 60 |
| 48 | The role of glutamate in opiate descending inhibition of nociceptive spinal reflexes. Brain Research, 1990, 524, 101-105. | 2.2 | 59 |
| 49 | Exercise in a Pill: The Latest on Exercise-Mimetics. Brain Plasticity, 2017, 2, 153-169. | 3.5 | 59 |
| 50 | The development of stimulation-produced analgesia (SPA) in the rat. Developmental Brain Research, 1991, 64, 71-76. | 1.7 | 56 |
| 51 | Effects of Aerobic Exercise Training on Systemic Biomarkers and Cognition in Late Middle-Aged Adults at Risk for Alzheimerâ€™s Disease. Frontiers in Endocrinology, 2021, 12, 660181. | 3.5 | 55 |
| 52 | Running reorganizes the circuitry of one-week-old adult-born hippocampal neurons. Scientific Reports, 2017, 7, 10903. | 3.3 | 50 |
| 53 | Regulation of AMPA receptor channels and synaptic plasticity by cofilin phosphatase Slingshot in cortical neurons. Journal of Physiology, 2010, 588, 2361-2371. | 2.9 | 47 |
| 54 | Unilateral hippocampal lesions in newborn and adult rats: effects on spatial memory and BDNF gene expression. Behavioural Brain Research, 1998, 92, 21-30. | 2.2 | 40 |

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|---|---|---|---|
| 55 | Exercise-mimetic AICAR transiently benefits brain function. Oncotarget, 2015, 6, 18293-18313. | 1.8 | 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. PLoS ONE, 2016, 11, e0156493. | 2.5 | 36 |
| 57 | EEG asymmetries may be affected by cranial and Brain parenchymal asymmetries. Brain Topography, 1989, 1, 221-228. | 1.8 | 35 |
| 58 | Steps towards standardized quantification of adult neurogenesis. Nature Communications, 2020, 11, 4275. | 12.8 | 34 |
| 59 | Molecular changes in brain aging and Alzheimer's disease are mirrored in experimentally silenced cortical neuron networks. Neurobiology of Aging, 2012, 33, 205.e1-205.e18. | 3.1 | 33 |
| 60 | A role for bone marrowâ€“derived cells in the vasculature of noninjured CNS. Blood, 2005, 105, 2400-2402. | 1.4 | 28 |
| 61 | Muscle Over Mind. Cell Metabolism, 2014, 20, 560-562. | 16.2 | 26 |
| 62 | Stage-specific functions of Semaphorin7A during adult hippocampal neurogenesis rely on distinct receptors. Nature Communications, 2017, 8, 14666. | 12.8 | 26 |
| 63 | Evidence for opiate tolerance in newborn rats. Developmental Brain Research, 1991, 60, 99-102. | 1.7 | 25 |
| 64 | Conditioned media from AICAR-treated skeletal muscle cells increases neuronal differentiation of adult neural progenitor cells. Neuropharmacology, 2019, 145, 123-130. | 4.1 | 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. Retrovirology, 2011, 8, 51. | 2.0 | 23 |
| 66 | Can exercise training teach us how to treat Alzheimerâ€™s disease?. Ageing Research Reviews, 2022, 75, 101559. | 10.9 | 23 |
| 67 | Topoisomerase 3Î² knockout mice show transcriptional and behavioural impairments associated with neurogenesis and synaptic plasticity. Nature Communications, 2020, 11, 3143. | 12.8 | 22 |
| 68 | Dissociation of Motor Hyperactivity and Spatial Memory Deficits by Selective Hippocampal Lesions in the Neonatal Rat. Journal of Cognitive Neuroscience, 1994, 6, 321-331. | 2.3 | 19 |
| 69 | Neurochemical and behavioral comparisons of contingent and non-contingent methamphetamine exposure following binge or yoked long-access self-administration paradigms. Psychopharmacology, 2020, 237, 1989-2005. | 3.1 | 19 |
| 70 | Neuron-Specific Expression of Tomosyn1 in the Mouse Hippocampal Dentate Gyrus Impairs Spatial Learning and Memory. NeuroMolecular Medicine, 2013, 15, 351-363. | 3.4 | 17 |
| 71 | Unilateral Neonatal Hippocampal Lesion Alters Septal Innervation and Trophism of the Entorhinal Cortex. Experimental Neurology, 1996, 141, 130-140. | 4.1 | 14 |
| 72 | TAGing APP constrains neurogenesis. Nature Cell Biology, 2008, 10, 249-250. | 10.3 | 14 |

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|---|---|---|---|
| 73 | Bilateral alpha distribution and anatomic brain asymmetries. Brain Topography, 1989, 1, 229-235. | 1.8 | 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. Developmental Brain Research, 1992, 67, 19-26. | 1.7 | 12 |
| 76 | Lifestyle Factors and Alzheimerâ€™s Disease. Brain Plasticity, 2018, 4, 1-2. | 3.5 | 12 |
| 77 | Activity-Dependent Reconnection of Adult-Born Dentate Granule Cells in a Mouse Model of Frontotemporal Dementia. Journal of Neuroscience, 2019, 39, 5794-5815. | 3.6 | 12 |
| 78 | Neonatal vs. adult unilateral hippocampal lesions: differential alterations in contralateral hippocampal theta rhythm. Brain Research, 1997, 768, 233-241. | 2.2 | 11 |
| 79 | Unilateral hippocampal ablation at birth causes a reduction in contralateral LTP. Brain Research, 1998, 795, 170-178. | 2.2 | 11 |
| 80 | AdipoRon Treatment Induces a Dose-Dependent Response in Adult Hippocampal Neurogenesis. International Journal of Molecular Sciences, 2021, 22, 2068. | 4.1 | 11 |
| 81 | Genetics of Childhood Disorders: XXXVI. Stem Cell Research, Part 1: New Neurons in the Adult Brain. Journal of the American Academy of Child and Adolescent Psychiatry, 2002, 41, 354-356. | 0.5 | 9 |
| 82 | Muscle Fatigue and Cognition: What is the Link?. Frontiers in Physiology, 2012, 3, 14. | 2.8 | 6 |
| 83 | Physical Activity and Brain Plasticity. Journal of Exercise Nutrition & Biochemistry, 2019, 23, 23-25. | 1.3 | 4 |
| 84 | The development of analgesic, pro- and anti-convulsant opiate effects in the rat. Annali Dell'Istituto Superiore Di Sanita, 1993, 29, 419-29. | 0.4 | 4 |
| 85 | Neurogenesis and Exercise. , 2010, , 404-409. | | 2 |
| 86 | An exercise infusion benefits brain function. Cell Research, 2022, , . | 12.0 | 2 |
| 87 | Are drug targets missed owing to lack of physical activity? â€“ Reply. Drug Discovery Today, 2001, 6, 615-617. | 6.4 | 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).. Behavioral Neuroscience, 2004, 118, 305-305. | 1.2 | 1 |
| 89 | Exercise Effects on Cognitive Function in Humans. Brain Plasticity, 2019, 5, 1-2. | 3.5 | 1 |
| 90 | Effects of Combined Anti-Hypertensive and Statin Treatment on Memory, Fear Extinction, Adult Neurogenesis, and Angiogenesis in Adult and Middle-Aged Mice. Cells, 2021, 10, 1778. | 4.1 | 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 |