

Robbert Havekes

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

3,880
citations

159585

30
h-index

175258

52
g-index

70
all docs

70
docs citations

70
times ranked

4505
citing authors

#	ARTICLE	IF	CITATIONS
1	Sleep, Plasticity and Memory from Molecules to Whole-Brain Networks. <i>Current Biology</i> , 2013, 23, R774-R788.	3.9	378
2	Sleep deprivation impairs cAMP signalling in the hippocampus. <i>Nature</i> , 2009, 461, 1122-1125.	27.8	339
3	Sleep deprivation and hippocampal vulnerability: changes in neuronal plasticity, neurogenesis and cognitive function. <i>Neuroscience</i> , 2015, 309, 173-190.	2.3	233
4	The role of sleep in regulating structural plasticity and synaptic strength: Implications for memory and cognitive function. <i>Sleep Medicine Reviews</i> , 2018, 39, 3-11.	8.5	210
5	Sleep deprivation causes memory deficits by negatively impacting neuronal connectivity in hippocampal area CA1. <i>ELife</i> , 2016, 5, .	6.0	191
6	Exercise improves memory acquisition and retrieval in the Y-maze task: Relationship with hippocampal neurogenesis.. <i>Behavioral Neuroscience</i> , 2007, 121, 324-334.	1.2	190
7	Post-training reversible inactivation of the hippocampus enhances novel object recognition memory. <i>Learning and Memory</i> , 2010, 17, 155-160.	1.3	188
8	The impact of sleep deprivation on neuronal and glial signaling pathways important for memory and synaptic plasticity. <i>Cellular Signalling</i> , 2012, 24, 1251-1260.	3.6	156
9	Sleep deprivation impairs spatial working memory and reduces hippocampal AMPA receptor phosphorylation. <i>Journal of Sleep Research</i> , 2010, 19, 280-288.	3.2	143
10	Circadian Time-Place Learning in Mice Depends on Cry Genes. <i>Current Biology</i> , 2008, 18, 844-848.	3.9	113
11	Sleep deprivation impairs memory by attenuating mTORC1-dependent protein synthesis. <i>Science Signaling</i> , 2016, 9, ra41.	3.6	108
12	Sleep deprivation during a specific 3-hour time window post-training impairs hippocampal synaptic plasticity and memory. <i>Neurobiology of Learning and Memory</i> , 2014, 109, 122-130.	1.9	106
13	Hippocampal cell proliferation across the day: Increase by running wheel activity, but no effect of sleep and wakefulness. <i>Behavioural Brain Research</i> , 2006, 167, 36-41.	2.2	91
14	A Time for Learning and a Time for Sleep: The Effect of Sleep Deprivation on Contextual Fear Conditioning at Different Times of the Day. <i>Sleep</i> , 2010, 33, 1315-1322.	1.1	87
15	The tired hippocampus: the molecular impact of sleep deprivation on hippocampal function. <i>Current Opinion in Neurobiology</i> , 2017, 44, 13-19.	4.2	80
16	Chronically Restricted or Disrupted Sleep as a Causal Factor in the Development of Depression. <i>Current Topics in Behavioral Neurosciences</i> , 2015, 25, 459-481.	1.7	79
17	Coping with Sleep Deprivation: Shifts in Regional Brain Activity and Learning Strategy. <i>Sleep</i> , 2010, 33, 1465-1473.	1.1	74
18	Male-specific deficits in natural reward learning in a mouse model of neurodevelopmental disorders. <i>Molecular Psychiatry</i> , 2018, 23, 544-555.	7.9	68

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19	Transiently Increasing cAMP Levels Selectively in Hippocampal Excitatory Neurons during Sleep Deprivation Prevents Memory Deficits Caused by Sleep Loss. <i>Journal of Neuroscience</i> , 2014, 34, 15715-15721.	3.6	62
20	A brief period of sleep deprivation causes spine loss in the dentate gyrus of mice. <i>Neurobiology of Learning and Memory</i> , 2019, 160, 83-90.	1.9	60
21	Animal Studies on the Role of Sleep in Memory: From Behavioral Performance to Molecular Mechanisms. <i>Current Topics in Behavioral Neurosciences</i> , 2015, 25, 183-206.	1.7	56
22	The cholinergic system and neostriatal memory functions. <i>Behavioural Brain Research</i> , 2011, 221, 412-423.	2.2	54
23	Gravin Orchestrates Protein Kinase A and β 2-Adrenergic Receptor Signaling Critical for Synaptic Plasticity and Memory. <i>Journal of Neuroscience</i> , 2012, 32, 18137-18149.	3.6	54
24	Deficits in spatial memory correlate with modified β 3-aminobutyric acid type A receptor tyrosine phosphorylation in the hippocampus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 20039-20044.	7.1	53
25	Compartmentalized PDE4A5 Signaling Impairs Hippocampal Synaptic Plasticity and Long-Term Memory. <i>Journal of Neuroscience</i> , 2016, 36, 8936-8946.	3.6	52
26	Colocalization of Protein Kinase A with Adenylyl Cyclase Enhances Protein Kinase A Activity during Induction of Long-Lasting Long-Term-Potential. <i>PLoS Computational Biology</i> , 2011, 7, e1002084.	3.2	44
27	Linking spatial gene expression patterns to sex-specific brain structural changes on a mouse model of 16p11.2 hemideletion. <i>Translational Psychiatry</i> , 2018, 8, 109.	4.8	43
28	The continued need for animals to advance brain research. <i>Neuron</i> , 2021, 109, 2374-2379.	8.1	36
29	Multisensory cortical processing and dysfunction across the neuropsychiatric spectrum. <i>Neuroscience and Biobehavioral Reviews</i> , 2019, 97, 138-151.	6.1	35
30	Differential involvement of hippocampal calcineurin during learning and reversal learning in a Y-maze task. <i>Learning and Memory</i> , 2006, 13, 753-759.	1.3	34
31	Chapter 1 Genetic Dissection of Neural Circuits and Behavior in <i>Mus musculus</i> . <i>Advances in Genetics</i> , 2009, 65, 1-38.	1.8	34
32	A presynaptic role for PKA in synaptic tagging and memory. <i>Neurobiology of Learning and Memory</i> , 2014, 114, 101-112.	1.9	32
33	Transgenic inhibition of neuronal calcineurin activity in the forebrain facilitates fear conditioning, but inhibits the extinction of contextual fear memories. <i>Neurobiology of Learning and Memory</i> , 2008, 89, 595-598.	1.9	30
34	Daily Acclimation Handling Does Not Affect Hippocampal Long-Term Potentiation or Cause Chronic Sleep Deprivation in Mice. <i>Sleep</i> , 2013, 36, 601-607.	1.1	30
35	Impacts of Sleep Loss versus Waking Experience on Brain Plasticity: Parallel or Orthogonal?. <i>Trends in Neurosciences</i> , 2020, 43, 385-393.	8.6	30
36	Learning induces the translin/trax RNase complex to express activin receptors for persistent memory. <i>ELife</i> , 2017, 6, .	6.0	30

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37	A Novel Conditional Genetic System Reveals That Increasing Neuronal cAMP Enhances Memory and Retrieval. <i>Journal of Neuroscience</i> , 2008, 28, 6220-6230.	3.6	29
38	A brief period of sleep deprivation leads to subtle changes in mouse gut microbiota. <i>Journal of Sleep Research</i> , 2020, 29, e12920.	3.2	28
39	The role of clock genes in sleep, stress and memory. <i>Biochemical Pharmacology</i> , 2021, 191, 114493.	4.4	28
40	Regional differences in hippocampal PKA immunoreactivity after training and reversal training in a spatial Y-maze task. <i>Hippocampus</i> , 2007, 17, 338-348.	1.9	25
41	The contribution of Parkin, PINK1 and DJ-1 genes to selective neuronal degeneration in Parkinson's disease. <i>European Journal of Neuroscience</i> , 2020, 52, 3256-3268.	2.6	25
42	Mutation of neuron-specific chromatin remodeling subunit BAF53b: rescue of plasticity and memory by manipulating actin remodeling. <i>Learning and Memory</i> , 2017, 24, 199-209.	1.3	21
43	Alzheimer's disease pathogenesis: The role of disturbed sleep in attenuated brain plasticity and neurodegenerative processes. <i>Cellular Signalling</i> , 2019, 64, 109420.	3.6	20
44	A brief period of sleep deprivation negatively impacts the acquisition, consolidation, and retrieval of object-location memories. <i>Neurobiology of Learning and Memory</i> , 2020, 175, 107326.	1.9	17
45	Transcriptional corepressor SIN3A regulates hippocampal synaptic plasticity via Homer1/mGluR5 signaling. <i>JCI Insight</i> , 2020, 5, .	5.0	17
46	Elucidating the role of protein synthesis in hippocampus-dependent memory consolidation across the day and night. <i>European Journal of Neuroscience</i> , 2021, 54, 6972-6981.	2.6	14
47	Sleep deprivation-induced impairment of memory consolidation is not mediated by glucocorticoid stress hormones. <i>Journal of Sleep Research</i> , 2020, 29, e12972.	3.2	12
48	Sleep deprivation reduces the density of individual spine subtypes in a branch-specific fashion in CA1 neurons. <i>Journal of Sleep Research</i> , 2022, 31, e13438.	3.2	12
49	Phosphodiesterase inhibitors roflumilast and vardenafil prevent sleep deprivation-induced deficits in spatial pattern separation. <i>Synapse</i> , 2020, 74, e22150.	1.2	9
50	Spatial and Temporal Gene Function Studies in Rodents: Towards Gene-Based Therapies for Autism Spectrum Disorder. <i>Genes</i> , 2022, 13, 28.	2.4	5
51	Genetic manipulation of cyclic nucleotide signaling during hippocampal neuroplasticity and memory formation. <i>Progress in Neurobiology</i> , 2020, 190, 101799.	5.7	3
52	NLM Special Issue on Sleep and hippocampal function. <i>Neurobiology of Learning and Memory</i> , 2019, 160, 1-2.	1.9	2
53	Belang van slaap voor cognitief en psychologisch functioneren. , 2021, , 11-27.		1
54	Validating a novel protocadherin 9 conditional knockout mouse model to study sensory cortex functioning. <i>European Neuropsychopharmacology</i> , 2017, 27, S604-S605.	0.7	0

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55	P.228 The role of Protocadherin 9 in layer 6 of the cortex in sensory-related behavioural tasks. European Neuropsychopharmacology, 2020, 31, S39-S40.	0.7	0