

# Min Whan Jung

## List of Publications by Year in descending order

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87  
papers

5,184  
citations

94433

37  
h-index

98798

67  
g-index

93  
all docs

93  
docs citations

93  
times ranked

6317  
citing authors

#	ARTICLE	IF	CITATIONS
1	Variations in Commissural Input Processing Across Different Types of Cortical Projection Neurons. <i>Cerebral Cortex</i> , 2022, 32, 2508-2520.	2.9	1
2	Robust and distributed neural representation of action values. <i>ELife</i> , 2021, 10, .	6.0	22
3	Parallel processing of working memory and temporal information by distinct types of cortical projection neurons. <i>Nature Communications</i> , 2021, 12, 4352.	12.8	11
4	Excitatory synapses and gap junctions cooperate to improve Pv neuronal burst firing and cortical social cognition in Shank2-mutant mice. <i>Nature Communications</i> , 2021, 12, 5116.	12.8	18
5	A role of anterior cingulate cortex in the emergence of workerâ€“parasite relationship. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	3
6	Distinct effects of reward and navigation history on hippocampal forward and reverse replays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 689-697.	7.1	29
7	Spatial organization of functional clusters representing reward and movement information in the striatal direct and indirect pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 27004-27015.	7.1	25
8	Active maintenance of eligibility trace in rodent prefrontal cortex. <i>Scientific Reports</i> , 2020, 10, 18860.	3.3	5
9	Somatostatin enhances visual processing and perception by suppressing excitatory inputs to parvalbumin-positive interneurons in V1. <i>Science Advances</i> , 2020, 6, eaaz0517.	10.3	29
10	Distinct roles of parvalbumin- and somatostatin-expressing neurons in flexible representation of task variables in the prefrontal cortex. <i>Progress in Neurobiology</i> , 2020, 187, 101773.	5.7	9
11	Transient effect of mossy fiber stimulation on spatial firing of CA3 neurons in familiar and novel environments. <i>Hippocampus</i> , 2020, 30, 693-702.	1.9	1
12	Dynamically changing neuronal activity supporting working memory for predictable and unpredictable durations. <i>Scientific Reports</i> , 2019, 9, 15512.	3.3	19
13	Transient effect of mossy fiber stimulation on spatial firing of CA3 neurons. <i>Hippocampus</i> , 2019, 29, 639-651.	1.9	12
14	Distinct roles of striatal direct and indirect pathways in value-based decision making. <i>ELife</i> , 2019, 8, .	6.0	18
15	Fear paradigms: The times they are a-changinâ€™™. <i>Current Opinion in Behavioral Sciences</i> , 2018, 24, 38-43.	3.9	27
16	Differential coding of reward and movement information in the dorsomedial striatal direct and indirect pathways. <i>Nature Communications</i> , 2018, 9, 404.	12.8	63
17	Cover Image, Volume 28, Issue 12. <i>Hippocampus</i> , 2018, 28, C1-C1.	1.9	1
18	Distinct Dynamics of Striatal and Prefrontal Neural Activity During Temporal Discrimination. <i>Frontiers in Integrative Neuroscience</i> , 2018, 12, 34.	2.1	12

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19	Remembering rewarding futures: A simulation selection model of the hippocampus. <i>Hippocampus</i> , 2018, 28, 913-930.	1.9	14
20	Role of the hippocampal CA1 region in incremental value learning. <i>Scientific Reports</i> , 2018, 8, 9870.	3.3	21
21	Separation or binding? Role of the dentate gyrus in hippocampal mnemonic processing. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 75, 183-194.	6.1	36
22	Sequential Firing Codes for Time in Rodent Medial Prefrontal Cortex. <i>Cerebral Cortex</i> , 2017, 27, 5663-5671.	2.9	81
23	Neural Signals Related to Outcome Evaluation Are Stronger in CA1 than CA3. <i>Frontiers in Neural Circuits</i> , 2017, 11, 40.	2.8	19
24	Neuronal activity in dorsomedial and dorsolateral striatum under the requirement for temporal credit assignment. <i>Scientific Reports</i> , 2016, 6, 27056.	3.3	16
25	Distinct Roles of Parvalbumin- and Somatostatin-Expressing Interneurons in Working Memory. <i>Neuron</i> , 2016, 92, 902-915.	8.1	155
26	Differential coding of uncertain reward in rat insular and orbitofrontal cortex. <i>Scientific Reports</i> , 2016, 6, 24085.	3.3	15
27	Enhanced Neuronal Activity in the Medial Prefrontal Cortex during Social Approach Behavior. <i>Journal of Neuroscience</i> , 2016, 36, 6926-6936.	3.6	107
28	Effects of fictive reward on rat's choice behavior. <i>Scientific Reports</i> , 2015, 5, 8040.	3.3	7
29	Effect of dentate gyrus disruption on remembering what happened where. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 170.	2.0	6
30	Social deficits in IRSp53 mutant mice improved by NMDAR and mGluR5 suppression. <i>Nature Neuroscience</i> , 2015, 18, 435-443.	14.8	168
31	Role of dopamine D2 receptors in optimizing choice strategy in a dynamic and uncertain environment. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 368.	2.0	26
32	Functional Relationships between the Hippocampus and Dorsomedial Striatum in Learning a Visual Scene-Based Memory Task in Rats. <i>Journal of Neuroscience</i> , 2014, 34, 15534-15547.	3.6	39
33	Neural Correlates of Interval Timing in Rodent Prefrontal Cortex. <i>Journal of Neuroscience</i> , 2013, 33, 13834-13847.	3.6	133
34	Effect of orbitofrontal cortex lesions on temporal discounting in rats. <i>Behavioural Brain Research</i> , 2013, 245, 22-28.	2.2	62
35	Signals for Previous Goal Choice Persist in the Dorsomedial, but Not Dorsolateral Striatum of Rats. <i>Journal of Neuroscience</i> , 2013, 33, 52-63.	3.6	64
36	Neural activity in mediodorsal nucleus of thalamus in rats performing a working memory task. <i>Frontiers in Neural Circuits</i> , 2013, 7, 128.	2.8	11

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37	Neural Basis of Reinforcement Learning and Decision Making. Annual Review of Neuroscience, 2012, 35, 287-308.	10.7	388
38	Role of rodent secondary motor cortex in value-based action selection. Nature Neuroscience, 2011, 14, 1202-1208.	14.8	195
39	Human Serum Transthyretin Levels Correlate Inversely with Alzheimer's Disease. Journal of Alzheimer's Disease, 2011, 25, 77-84.	2.6	76
40	Stimulus-induced reduction of noise correlation in rat prefrontal cortex. NeuroReport, 2011, 22, 824-829.	1.2	2
41	Auditory cortex is important in the extinction of two different tone-based conditioned fear memories in rats. Frontiers in Behavioral Neuroscience, 2010, 4, 24.	2.0	15
42	Scopolamine-induced learning impairment reversed by physostigmine in zebrafish. Neuroscience Research, 2010, 67, 156-161.	1.9	74
43	Distinct Roles of Rodent Orbitofrontal and Medial Prefrontal Cortex in Decision Making. Neuron, 2010, 66, 449-460.	8.1	327
44	Inactivation of medial prefrontal cortex impairs time interval discrimination in rats. Frontiers in Behavioral Neuroscience, 2009, 3, 38.	2.0	55
45	Role of Striatum in Updating Values of Chosen Actions. Journal of Neuroscience, 2009, 29, 14701-14712.	3.6	179
46	Role of dentate gyrus in aligning internal spatial map to external landmark. Learning and Memory, 2009, 16, 530-536.	1.3	28
47	Model-based reinforcement learning under concurrent schedules of reinforcement in rodents. Learning and Memory, 2009, 16, 315-323.	1.3	27
48	LTD induction suppresses LTP-induced hippocampal adult neurogenesis. NeuroReport, 2009, 20, 1279-1283.	1.2	11
49	Plasticity and Memory in the Prefrontal Cortex. Reviews in the Neurosciences, 2008, 19, 29-46.	2.9	38
50	Prefrontal cortex and hippocampus subserve different components of working memory in rats. Learning and Memory, 2008, 15, 97-105.	1.3	194
51	Information transmission by stimulus-dependent modulation of noise correlation. NeuroReport, 2008, 19, 453-457.	1.2	2
52	Learning-Induced Enduring Changes in Functional Connectivity among Prefrontal Cortical Neurons. Journal of Neuroscience, 2007, 27, 909-918.	3.6	48
53	Stress-induced alterations in hippocampal plasticity, place cells, and spatial memory. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18297-18302.	7.1	106
54	Effects of Methamphetamine on Single Unit Activity in Rat Medial Prefrontal Cortex In Vivo. Neural Plasticity, 2007, 2007, 1-9.	2.2	6

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55	LTP induction modifies functional relationship among hippocampal neurons. <i>Learning and Memory</i> , 2007, 14, 190-194.	1.3	9
56	Encoding of Action History in the Rat Ventral Striatum. <i>Journal of Neurophysiology</i> , 2007, 98, 3548-3556.	1.8	39
57	Enhanced proliferation of progenitor cells following long-term potentiation induction in the rat dentate gyrus. <i>Neurobiology of Learning and Memory</i> , 2006, 86, 322-329.	1.9	75
58	A computer vision-based automated Figure-8 maze for working memory test in rodents. <i>Journal of Neuroscience Methods</i> , 2006, 156, 10-16.	2.5	14
59	Neural circuits and mechanisms involved in Pavlovian fear conditioning: A critical review. <i>Neuroscience and Biobehavioral Reviews</i> , 2006, 30, 188-202.	6.1	494
60	Involvement of calcium-mediated apoptotic signals in H <sub>2</sub> O <sub>2</sub> -induced MIN6N8a cell death. <i>European Journal of Pharmacology</i> , 2006, 547, 1-9.	3.5	35
61	ERK1/2 is an endogenous negative regulator of the $\beta$ secretase activity. <i>FASEB Journal</i> , 2006, 20, 157-159.	0.5	93
62	Lithium attenuates stress-induced impairment of long-term potentiation induction. <i>NeuroReport</i> , 2005, 16, 1605-1608.	1.2	9
63	Role of active movement in place-specific firing of hippocampal neurons. <i>Hippocampus</i> , 2005, 15, 8-17.	1.9	51
64	Amyloid beta peptide directly inhibits PKC activation. <i>Molecular and Cellular Neurosciences</i> , 2004, 26, 222-231.	2.2	60
65	Lovastatin enhances A $\beta$ <sup>2</sup> production and senile plaque deposition in female Tg2576 mice. <i>Neurobiology of Aging</i> , 2003, 24, 637-643.	3.1	131
66	Neuroprotective Effects of Constituents of the Oriental Crude Drugs, <i>Rhodiola sacra</i> , <i>R. sachalinensis</i> and <i>Tokaku-joki-to</i> , against Beta-amyloid Toxicity, Oxidative Stress and Apoptosis.. <i>Biological and Pharmaceutical Bulletin</i> , 2002, 25, 1101-1104.	1.4	47
67	Amyloid precursor protein processing is separately regulated by protein kinase C and tyrosine kinase in human astrocytes. <i>Neuroscience Letters</i> , 2002, 324, 185-188.	2.1	14
68	Variation in Effective Stimulus Patterns for Induction of Long-Term Potentiation Across Different Layers of Rat Entorhinal Cortex. <i>Journal of Neuroscience</i> , 2002, 22, RC214-RC214.	3.6	45
69	Induction of homosynaptic long-term depression in entorhinal cortex. <i>Brain Research</i> , 2002, 954, 308-310.	2.2	13
70	Augmentation by zinc of NMDA receptor-mediated synaptic responses in CA1 of rat hippocampal slices: Mediation by Src family tyrosine kinases. <i>Synapse</i> , 2002, 46, 49-56.	1.2	38
71	Blockade of PKC $\beta$ Activation Attenuates Phorbol Ester-Induced Increase of $\beta$ -Secretase-Derived Secreted Form of Amyloid Precursor Protein. <i>Biochemical and Biophysical Research Communications</i> , 2001, 280, 782-787.	2.1	54
72	Zinc Enhances Synthesis of Presenilin 1 in Mouse Primary Cortical Culture. <i>Biochemical and Biophysical Research Communications</i> , 2001, 285, 680-688.	2.1	23

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73	Haloperidol and clozapine increase neural activity in the rat prefrontal cortex. <i>Neuroscience Letters</i> , 2001, 298, 217-221.	2.1	11
74	Neuroprotective effects of estrogen against beta-amyloid toxicity are mediated by estrogen receptors in cultured neuronal cells. <i>Neuroscience Letters</i> , 2001, 302, 58-62.	2.1	73
75	Ginsenoside Rb1 and Rg1 improve spatial learning and increase hippocampal synaptophysin level in mice. <i>Journal of Neuroscience Research</i> , 2001, 63, 509-515.	2.9	127
76	Cholinergic modulation of synaptic physiology in deep layer entorhinal cortex of the rat. <i>Journal of Neuroscience Research</i> , 2001, 66, 117-121.	2.9	25
77	Selective enhancement of non-NMDA receptor-mediated responses following induction of long-term potentiation in entorhinal cortex. , 2000, 35, 1-7.		12
78	Structure-activity relationship study of asiatic acid derivatives against beta amyloid (A $\beta$ )-induced neurotoxicity. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2000, 10, 119-121.	2.2	64
79	Relationship among Discharges of Neighboring Neurons in the Rat Prefrontal Cortex During Spatial Working Memory Tasks. <i>Journal of Neuroscience</i> , 2000, 20, 6166-6172.	3.6	28
80	Protective effects of asiaticoside derivatives against beta-amyloid neurotoxicity. <i>Journal of Neuroscience Research</i> , 1999, 58, 417-425.	2.9	113
81	Synaptotagmin and synaptic transmission alterations in apolipoprotein E-deficient mice. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 1999, 23, 519-531.	4.8	29
82	Altered long-term potentiation in the hippocampus of apolipoprotein E-deficient mice. <i>Neuroscience Letters</i> , 1998, 249, 71-74.	2.1	39
83	Estrogen blocks neurotoxic effects of $\beta$ -amyloid (1-42) and induces neurite extension on B103 cells. <i>Neuroscience Letters</i> , 1997, 235, 101-104.	2.1	64
84	Further characteristics of long-term potentiation in piriform cortex. <i>Synapse</i> , 1994, 18, 298-306.	1.2	20
85	Evidence that changes in spine neck resistance are not responsible for expression of LTP. <i>Synapse</i> , 1991, 7, 216-220.	1.2	14
86	Long-term potentiation of monosynaptic EPSPs in rat piroform cortex in vitro. <i>Synapse</i> , 1990, 6, 279-283.	1.2	120
87	Stimulation of NMDA receptors induces proteolysis of spectrin in hippocampus. <i>Brain Research</i> , 1988, 460, 189-194.	2.2	143