

Susumu Tonegawa

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

91
papers

22,133
citations

64
h-index

94
g-index

94
ext. papers

25,572
ext. citations

25.5
avg, IF

7.03
L-index

#	Paper	IF	Citations
91	Brain-wide mapping reveals that engrams for a single memory are distributed across multiple brain regions.. <i>Nature Communications</i> , 2022 , 13, 1799	17.4	5
90	Crucial role for CA2 inputs in the sequential organization of CA1 time cells supporting memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	10
89	Reply to Lehr and StBer: What's in a name? On the distinction between temporal coding and internally driven activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	0
88	Amygdala Reward Neurons Form and Store Fear Extinction Memory. <i>Neuron</i> , 2020 , 105, 1077-1093.e7	13.9	50
87	Hippocampal neurons represent events as transferable units of experience. <i>Nature Neuroscience</i> , 2020 , 23, 651-663	25.5	41
86	Differential attentional control mechanisms by two distinct noradrenergic coeruleo-frontal cortical pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 29080-29089	11.5	15
85	Memory engrams: Recalling the past and imagining the future. <i>Science</i> , 2020 , 367,	33.3	193
84	Engram Cell Excitability State Determines the Efficacy of Memory Retrieval. <i>Neuron</i> , 2019 , 101, 274-284.e5	15.9	88
83	Locus coeruleus input to hippocampal CA3 drives single-trial learning of a novel context. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E310-E316	11.5	99
82	The role of engram cells in the systems consolidation of memory. <i>Nature Reviews Neuroscience</i> , 2018 , 19, 485-498	13.5	153
81	Engrams and circuits crucial for systems consolidation of a memory. <i>Science</i> , 2017 , 356, 73-78	33.3	427
80	Basolateral to Central Amygdala Neural Circuits for Appetitive Behaviors. <i>Neuron</i> , 2017 , 93, 1464-1479.e5	13.9	189
79	Direct Medial Entorhinal Cortex Input to Hippocampal CA1 Is Crucial for Extended Quiet Awake Replay. <i>Neuron</i> , 2017 , 96, 217-227.e4	13.9	69
78	Dorsal Raphe Serotonergic Neurons Control Intertemporal Choice under Trade-off. <i>Current Biology</i> , 2017 , 27, 3111-3119.e3	6.3	21
77	Silent memory engrams as the basis for retrograde amnesia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E9972-E9979	11.5	58
76	Tagging activated neurons with light. <i>Nature Biotechnology</i> , 2017 , 35, 827-828	44.5	4
75	Distinct Neural Circuits for the Formation and Retrieval of Episodic Memories. <i>Cell</i> , 2017 , 170, 1000-1012.e19	36.19	131

74	A novel diagnostic biomarker for human uterine leiomyosarcoma: PSMB9/βi. <i>Chinese Clinical Oncology</i> , 2017 , 6, 22	2.3	5
73	Antagonistic negative and positive neurons of the basolateral amygdala. <i>Nature Neuroscience</i> , 2016 , 19, 1636-1646	25.5	173
72	Rehebbilitating Memory. <i>Neuropsychopharmacology</i> , 2016 , 41, 370-1	8.7	8
71	Memory retrieval by activating engram cells in mouse models of early Alzheimer's disease. <i>Nature</i> , 2016 , 531, 508-12	50.4	275
70	Molecular Pathology and Novel Clinical Therapy for Uterine Leiomyosarcoma. <i>Anticancer Research</i> , 2016 , 36, 4997-5007	2.3	5
69	What is memory? The present state of the engram. <i>BMC Biology</i> , 2016 , 14, 40	7.3	197
68	Ventral CA1 neurons store social memory. <i>Science</i> , 2016 , 353, 1536-1541	33.3	287
67	Differentiation of forebrain and hippocampal dopamine 1-class receptors, D1R and D5R, in spatial learning and memory. <i>Hippocampus</i> , 2016 , 26, 76-86	3.5	18
66	Conjunctive input processing drives feature selectivity in hippocampal CA1 neurons. <i>Nature Neuroscience</i> , 2015 , 18, 1133-42	25.5	262
65	Distinct speed dependence of entorhinal island and ocean cells, including respective grid cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 9466-71	11.5	88
64	Activating positive memory engrams suppresses depression-like behaviour. <i>Nature</i> , 2015 , 522, 335-9	50.4	195
63	Entorhinal Cortical Ocean Cells Encode Specific Contexts and Drive Context-Specific Fear Memory. <i>Neuron</i> , 2015 , 87, 1317-1331	13.9	88
62	Entorhinal-hippocampal neuronal circuits bridge temporally discontinuous events. <i>Learning and Memory</i> , 2015 , 22, 438-43	2.8	58
61	Memory engram storage and retrieval. <i>Current Opinion in Neurobiology</i> , 2015 , 35, 101-9	7.6	218
60	Memory Engram Cells Have Come of Age. <i>Neuron</i> , 2015 , 87, 918-31	13.9	284
59	Memory. Engram cells retain memory under retrograde amnesia. <i>Science</i> , 2015 , 348, 1007-13	33.3	346
58	Successful execution of working memory linked to synchronized high-frequency gamma oscillations. <i>Cell</i> , 2014 , 157, 845-57	56.2	228
57	Direct excitation of parvalbumin-positive interneurons by M1 muscarinic acetylcholine receptors: roles in cellular excitability, inhibitory transmission and cognition. <i>Journal of Physiology</i> , 2014 , 592, 3463-94	3.9	88

56	Cell type-specific genetic and optogenetic tools reveal hippocampal CA2 circuits. <i>Nature Neuroscience</i> , 2014 , 17, 269-79	25.5	296
55	Island cells control temporal association memory. <i>Science</i> , 2014 , 343, 896-901	33.3	203
54	Bidirectional switch of the valence associated with a hippocampal contextual memory engram. <i>Nature</i> , 2014 , 513, 426-30	50.4	282
53	Differential roles of the dopamine 1-class receptors, D1R and D5R, in hippocampal dependent memory. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 8245-50	11.5	53
52	Identification and Manipulation of Memory Engram Cells. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2014 , 79, 59-65	3.9	22
51	Potential biomarker for human uterine leiomyosarcoma. <i>Journal of Clinical Medicine Research</i> , 2014 , 6, 392-4	2.9	3
50	Identification and optogenetic manipulation of memory engrams in the hippocampus. <i>Frontiers in Behavioral Neuroscience</i> , 2013 , 7, 226	3.5	51
49	Creating a false memory in the hippocampus. <i>Science</i> , 2013 , 341, 387-91	33.3	576
48	Young dentate granule cells mediate pattern separation, whereas old granule cells facilitate pattern completion. <i>Cell</i> , 2012 , 149, 188-201	56.2	579
47	Optogenetic stimulation of a hippocampal engram activates fear memory recall. <i>Nature</i> , 2012 , 484, 381-5	50.4	909
46	Preplay of future place cell sequences by hippocampal cellular assemblies. <i>Nature</i> , 2011 , 469, 397-401	50.4	391
45	Entorhinal cortex layer III input to the hippocampus is crucial for temporal association memory. <i>Science</i> , 2011 , 334, 1415-20	33.3	227
44	Hippocampal CA3 output is crucial for ripple-associated reactivation and consolidation of memory. <i>Neuron</i> , 2009 , 62, 781-7	13.9	182
43	The ins and outs of hippocampal circuits. <i>Neuron</i> , 2008 , 57, 175-7	13.9	4
42	Transgenic inhibition of synaptic transmission reveals role of CA3 output in hippocampal learning. <i>Science</i> , 2008 , 319, 1260-4	33.3	351
41	Dentate gyrus NMDA receptors mediate rapid pattern separation in the hippocampal network. <i>Science</i> , 2007 , 317, 94-9	33.3	704
40	Altered cortical synaptic morphology and impaired memory consolidation in forebrain-specific dominant-negative PAK transgenic mice. <i>Neuron</i> , 2004 , 42, 773-87	13.9	227
39	Hippocampal CA3 NMDA receptors are crucial for memory acquisition of one-time experience. <i>Neuron</i> , 2003 , 38, 305-15	13.9	369

38	Genetic neuroscience of mammalian learning and memory. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2003 , 358, 787-95	5.8	75
37	Requirement for hippocampal CA3 NMDA receptors in associative memory recall. <i>Science</i> , 2002 , 297, 211-8	33.3	822
36	Cortex-restricted disruption of NMDAR1 impairs neuronal patterns in the barrel cortex. <i>Nature</i> , 2000 , 406, 726-31	50.4	415
35	Decreased Ethanol Sensitivity and Tolerance Development in ϵ Protein Kinase C Null Mutant Mice Is Dependent on Genetic Background. <i>Alcoholism: Clinical and Experimental Research</i> , 1999 , 23, 387-397	3.7	76
34	Dopamine D3 receptor mutant and wild-type mice exhibit identical responses to putative D3 receptor-selective agonists and antagonists. <i>Synapse</i> , 1999 , 31, 210-5	2.4	90
33	Why do mature CNS neurons of mammals fail to re-establish connections following injury--functions of bcl-2. <i>Cell Death and Differentiation</i> , 1998 , 5, 816-22	12.7	31
32	Myelin basic protein-specific T helper 2 (Th2) cells cause experimental autoimmune encephalomyelitis in immunodeficient hosts rather than protect them from the disease. <i>Journal of Experimental Medicine</i> , 1997 , 186, 307-12	16.6	384
31	Bcl-2 promotes regeneration of severed axons in mammalian CNS. <i>Nature</i> , 1997 , 385, 434-9	50.4	406
30	Impaired hippocampal representation of space in CA1-specific NMDAR1 knockout mice. <i>Cell</i> , 1996 , 87, 1339-49	56.2	507
29	Differential reactivity of residual CD8+ T lymphocytes in TAP1 and beta 2-microglobulin mutant mice. <i>European Journal of Immunology</i> , 1995 , 25, 174-8	6.1	34
28	Contribution of alpha/beta and gamma/delta T lymphocytes to immunity against <i>Mycobacterium bovis</i> bacillus Calmette Guérin: studies with T cell receptor-deficient mutant mice. <i>European Journal of Immunology</i> , 1995 , 25, 838-46	6.1	123
27	TAP1-independent loading of class I molecules by exogenous viral proteins. <i>European Journal of Immunology</i> , 1995 , 25, 1739-43	6.1	91
26	Presentation of endogenous viral proteins in association with major histocompatibility complex class II: on the role of intracellular compartmentalization, invariant chain and the TAP transporter system. <i>European Journal of Immunology</i> , 1995 , 25, 3402-11	6.1	90
25	Different roles of alpha beta and gamma delta T cells in immunity against an intracellular bacterial pathogen. <i>Nature</i> , 1993 , 365, 53-6	50.4	374
24	Repertoire-determining role of peptide in the positive selection of CD8+ T cells. <i>Immunological Reviews</i> , 1993 , 135, 157-82	11.3	7
23	Mutations in T-cell antigen receptor genes alpha and beta block thymocyte development at different stages. <i>Nature</i> , 1992 , 360, 225-31	50.4	942
22	Recognition of MHC TL gene products by gamma delta T cells. <i>Immunological Reviews</i> , 1991 , 120, 89-115	11.3	47
21	Self-tolerance to transgenic gamma delta T cells by intrathymic inactivation. <i>Nature</i> , 1990 , 344, 163-5	50.4	90

20	Revised nomenclature of mouse H-2 genes. <i>Immunogenetics</i> , 1990 , 32, 147-9	3.2	45
19	Immunobiology of murine <i>T. cruzi</i> infection: the predominance of parasite-nonspecific responses and the activation of TCRI T cells. <i>Immunological Reviews</i> , 1989 , 112, 183-207	11.3	147
18	Blockage of alpha beta T-cell development by TCR gamma delta transgenes. <i>Nature</i> , 1989 , 342, 931-4	50.4	72
17	Diversity of gamma delta T-cell receptors on murine intestinal intra-epithelial lymphocytes. <i>Nature</i> , 1989 , 339, 712-4	50.4	204
16	Somatic Generation of Immune Diversity (Nobel Lecture). <i>Angewandte Chemie International Edition in English</i> , 1988 , 27, 1028-1039		4
15	Intestinal intraepithelial lymphocytes are a distinct set of gamma delta T cells. <i>Nature</i> , 1988 , 336, 479-81	50.4	364
14	T gamma protein is expressed on murine fetal thymocytes as a disulphide-linked heterodimer. <i>Nature</i> , 1987 , 325, 720-3	50.4	81
13	Diversity of murine gamma genes and expression in fetal and adult T lymphocytes. <i>Nature</i> , 1986 , 322, 836-40	50.4	344
12	Limited diversity of the rearranged T-cell gamma gene. <i>Nature</i> , 1985 , 313, 752-5	50.4	175
11	Cell-type-specific contacts to immunoglobulin enhancers in nuclei. <i>Nature</i> , 1985 , 313, 798-801	50.4	336
10	Developmental regulation of T-cell receptor gene expression. <i>Nature</i> , 1985 , 314, 103-7	50.4	484
9	Functional expression of a microinjected Ed alpha gene in C57BL/6 transgenic mice. <i>Nature</i> , 1985 , 316, 67-9	50.4	120
8	Unusual organization and diversity of T-cell receptor alpha-chain genes. <i>Nature</i> , 1985 , 316, 828-32	50.4	204
7	Activation of a translocated human c-myc gene by an enhancer in the immunoglobulin heavy-chain locus. <i>Nature</i> , 1984 , 307, 334-40	50.4	254
6	Complete primary structure of a heterodimeric T-cell receptor deduced from cDNA sequences. <i>Nature</i> , 1984 , 309, 757-62	50.4	608
5	Cell type-specific enhancer element associated with a mouse MHC gene, E beta. <i>Nature</i> , 1984 , 310, 594-7	50.4	176
4	A third rearranged and expressed gene in a clone of cytotoxic T lymphocytes. <i>Nature</i> , 1984 , 312, 36-40	50.4	465
3	Somatic generation of antibody diversity. <i>Nature</i> , 1983 , 302, 575-81	50.4	3628

2	Amygdala Reward Neurons Form and Store Fear Extinction Memory	1
1	Brain-wide mapping of contextual fear memory engram ensembles supports the dispersed engram complex hypothesis	12