

Social and novel contexts modify hippocampal CA2 rep

Nature Communications

7, 10300

DOI: [10.1038/ncomms10300](https://doi.org/10.1038/ncomms10300)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Role of Hippocampal CA2 Region in Triggering Sharp-Wave Ripples. <i>Neuron</i> , 2016, 91, 1342-1355.	3.8	172
2	Neural Activity Patterns Underlying Spatial Coding in the Hippocampus. <i>Current Topics in Behavioral Neurosciences</i> , 2016, 37, 43-100.	0.8	21
3	Rediscovering area CA2: unique properties and functions. <i>Nature Reviews Neuroscience</i> , 2016, 17, 89-102.	4.9	249
4	Transient inactivation of the anterior cingulate cortex in rats disrupts avoidance of a dynamic object. <i>Neurobiology of Learning and Memory</i> , 2017, 139, 144-148.	1.0	5
5	The Dendrites of CA2 and CA1 Pyramidal Neurons Differentially Regulate Information Flow in the Cortico-Hippocampal Circuit. <i>Journal of Neuroscience</i> , 2017, 37, 3276-3293.	1.7	54
6	Place cells are more strongly tied to landmarks in deep than in superficial CA1. <i>Nature Communications</i> , 2017, 8, 14531.	5.8	108
7	Hippocampal function in rodents. <i>Current Opinion in Neurobiology</i> , 2017, 43, 187-197.	2.0	39
8	Chronic Loss of CA2 Transmission Leads to Hippocampal Hyperexcitability. <i>Neuron</i> , 2017, 94, 642-655.e9.	3.8	92
9	Viewpoints: how the hippocampus contributes to memory, navigation and cognition. <i>Nature Neuroscience</i> , 2017, 20, 1434-1447.	7.1	430
10	Hippocampal oxytocin receptors are necessary for discrimination of social stimuli. <i>Nature Communications</i> , 2017, 8, 2001.	5.8	209
11	Sleep Enhances Recognition Memory for Conspecifics as Bound into Spatial Context. <i>Frontiers in Behavioral Neuroscience</i> , 2017, 11, 28.	1.0	6
12	Neuroanatomical Substrates of Rodent Social Behavior: The Medial Prefrontal Cortex and Its Projection Patterns. <i>Frontiers in Neural Circuits</i> , 2017, 11, 41.	1.4	153
13	Interactome Analysis Reveals Regulator of G Protein Signaling 14 (RGS14) is a Novel Calcium/Calmodulin (Ca ²⁺ /CaM) and CaM Kinase II (CaMKII) Binding Partner. <i>Journal of Proteome Research</i> , 2018, 17, 1700-1711.	1.8	21
14	A role for CA3 in social recognition memory. <i>Behavioural Brain Research</i> , 2018, 354, 22-30.	1.2	78
15	Hippocampal area CA2: properties and contribution to hippocampal function. <i>Cell and Tissue Research</i> , 2018, 373, 525-540.	1.5	14
16	PlexinA2 Forward Signaling through Rap1 GTPases Regulates Dentate Gyrus Development and Schizophrenia-like Behaviors. <i>Cell Reports</i> , 2018, 22, 456-470.	2.9	33
17	Social Spaces: Place Cells Represent the Locations of Others. <i>Current Biology</i> , 2018, 28, R271-R273.	1.8	4
18	The social hippocampus. <i>Hippocampus</i> , 2018, 28, 672-679.	0.9	131

#	ARTICLE	IF	CITATIONS
19	The Hippocampus and Social Impairment in Psychiatric Disorders. Cold Spring Harbor Symposia on Quantitative Biology, 2018, 83, 105-118.	2.0	17
20	Disrupted Functional Connectivity of Cornu Ammonis Subregions in Amnesic Mild Cognitive Impairment: A Longitudinal Resting-State fMRI Study. Frontiers in Human Neuroscience, 2018, 12, 413.	1.0	18
21	Electrochemical Immune Analysis System for Gastric Cancer Biomarker Carcinoembryonic Antigen (CEA) Detection. International Journal of Electrochemical Science, 2018, 13, 1413-1422.	0.5	9
22	Exercising New Neurons to Vanquish Alzheimer Disease. Brain Plasticity, 2018, 4, 111-126.	1.9	18
23	Oxytocin Transforms Firing Mode of CA2 Hippocampal Neurons. Neuron, 2018, 100, 593-608.e3.	3.8	102
24	Oxytocin and excitation/inhibition balance in social recognition. Neuropeptides, 2018, 72, 1-11.	0.9	30
25	A hippocampal circuit linking dorsal CA2 to ventral CA1 critical for social memory dynamics. Nature Communications, 2018, 9, 4163.	5.8	189
26	Navigating Social Space. Neuron, 2018, 100, 476-489.	3.8	113
27	Memory circuits: CA2. Current Opinion in Neurobiology, 2018, 52, 54-59.	2.0	19
28	Predictors of social instability stress effects on social interaction and anxiety in adolescent male rats. Developmental Psychobiology, 2018, 60, 651-663.	0.9	18
29	The hierarchy of food, sociality, and experience in spatial decision-making by food-deprived rats. Behavioural Processes, 2018, 157, 1-6.	0.5	3
30	Female mice are protected from space radiation-induced maladaptive responses. Brain, Behavior, and Immunity, 2018, 74, 106-120.	2.0	98
31	Genetic Analysis of Rare Human Variants of Regulators of G Protein Signaling Proteins and Their Role in Human Physiology and Disease. Pharmacological Reviews, 2018, 70, 446-474.	7.1	53
32	Diversity of dendritic morphology and entorhinal cortex synaptic effectiveness in mouse CA2 pyramidal neurons. Hippocampus, 2019, 29, 78-92.	0.9	17
33	Modulation of CA2 neuronal activity increases behavioral responses to fear conditioning in female mice. Neurobiology of Learning and Memory, 2019, 163, 107044.	1.0	21
34	Adaptation to single housing is dynamic: Changes in hormone levels, gene expression, signaling in the brain, and anxiety-like behavior in adult male C57Bl/6J mice. Hormones and Behavior, 2019, 114, 104541.	1.0	14
35	Hippocampal Subregions Express Distinct Dendritic Transcriptomes that Reveal Differences in Mitochondrial Function in CA2. Cell Reports, 2019, 29, 522-539.e6.	2.9	61
36	Primate hippocampus size and organization are predicted by sociality but not diet. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191712.	1.2	13

#	ARTICLE	IF	CITATIONS
37	NMDA Receptor in Vasopressin 1b Neurons Is Not Required for Short-Term Social Memory, Object Memory or Aggression. <i>Frontiers in Behavioral Neuroscience</i> , 2019, 13, 218.	1.0	15
38	Neuronal Responses to Conspecifics in the Ventral CA1. <i>Cell Reports</i> , 2019, 27, 3460-3472.e3.	2.9	57
39	Insensitivity of place cells to the value of spatial goals in a two-choice flexible navigation task. <i>Journal of Neuroscience</i> , 2019, 39, 1578-18.	1.7	37
40	Prior observation of fear learning enhances subsequent self-experienced fear learning with an overlapping neuronal ensemble in the dorsal hippocampus. <i>Molecular Brain</i> , 2019, 12, 21.	1.3	12
41	Association between delayed recall and T2* relaxation time of the subiculum in adolescents: Implications for ultra-high field magnetic resonance imaging. <i>Psychiatry and Clinical Neurosciences</i> , 2019, 73, 340-346.	1.0	3
42	Three brain states in the hippocampus and cortex. <i>Hippocampus</i> , 2019, 29, 184-238.	0.9	49
43	Impaired social behaviour and molecular mediators of associated neural circuits during chronic <i>Toxoplasma gondii</i> infection in female mice. <i>Brain, Behavior, and Immunity</i> , 2019, 80, 88-108.	2.0	28
44	Rhythmic Pruning of Perceptual Noise for Object Representation in the Hippocampus and Perirhinal Cortex in Rats. <i>Cell Reports</i> , 2019, 26, 2362-2376.e4.	2.9	11
45	Proximodistal Organization of the CA2 Hippocampal Area. <i>Cell Reports</i> , 2019, 26, 1734-1746.e6.	2.9	35
46	Implications for Treatment and Management. , 2019, , 154-191.		0
47	Characterisation of the mechanisms underlying the special sensitivity of the CA2 hippocampal area to adenosine receptor antagonists. <i>Neuropharmacology</i> , 2019, 144, 9-18.	2.0	10
48	CA2: A Highly Connected Intrahippocampal Relay. <i>Annual Review of Neuroscience</i> , 2020, 43, 55-72.	5.0	33
49	Coding of social novelty in the hippocampal CA2 region and its disruption and rescue in a 22q11.2 microdeletion mouse model. <i>Nature Neuroscience</i> , 2020, 23, 1365-1375.	7.1	59
50	A hypothalamic novelty signal modulates hippocampal memory. <i>Nature</i> , 2020, 586, 270-274.	13.7	121
51	Selective neuromodulation and mutual inhibition within the CA3-CA2 system can prioritize sequences for replay. <i>Hippocampus</i> , 2020, 30, 1228-1238.	0.9	16
52	Hippocampal CA2 sharp-wave ripples reactivate and promote social memory. <i>Nature</i> , 2020, 587, 264-269.	13.7	145
53	Increased Endocannabinoid Signaling Reduces Social Motivation in Intact Rats and Does Not Affect Animals Submitted to Early-Life Seizures. <i>Frontiers in Behavioral Neuroscience</i> , 2020, 14, 560423.	1.0	0
54	Hippocampal coding of conspecific position. <i>Brain Research</i> , 2020, 1745, 146920.	1.1	1

#	ARTICLE	IF	CITATIONS
55	Structural Correlates of CA2 and CA3 Pyramidal Cell Activity in Freely-Moving Mice. <i>Journal of Neuroscience</i> , 2020, 40, 5797-5806.	1.7	14
56	Adolescent CB1 receptor antagonism influences subsequent social interactions and neural activity in female rats. <i>International Journal of Developmental Neuroscience</i> , 2020, 80, 319-333.	0.7	5
57	Oxytocin has sex-specific effects on social behaviour and hypothalamic oxytocin immunoreactive cells but not hippocampal neurogenesis in adult rats. <i>Hormones and Behavior</i> , 2020, 122, 104734.	1.0	14
58	Dissecting neural mechanisms of prosocial behaviors. <i>Current Opinion in Neurobiology</i> , 2021, 68, 9-14.	2.0	15
59	Novel role for mineralocorticoid receptors in control of a neuronal phenotype. <i>Molecular Psychiatry</i> , 2021, 26, 350-364.	4.1	40
60	Newborn mice form lasting CA2-dependent memories of their mothers. <i>Cell Reports</i> , 2021, 34, 108668.	2.9	28
61	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, .	3.3	32
62	Disturbance in Mammalian Cognition Caused by Accumulation of Silver in Brain. <i>Toxics</i> , 2021, 9, 30.	1.6	12
64	The Role of Hypothalamus in the Formation of Neural Representations of Objectâ€“Place Associations in the Hippocampus during Wakefulness and Paradoxical Sleep. <i>Neurochemical Journal</i> , 2021, 15, 139-147.	0.2	0
66	Oxtr/TRPV1 expression and acclimation of skeletal muscle to cold-stress in male mice. <i>Journal of Endocrinology</i> , 2021, 249, 135-148.	1.2	10
67	Enkephalin release from VIP interneurons in the hippocampal CA2/3a region mediates heterosynaptic plasticity and social memory. <i>Molecular Psychiatry</i> , 2022, 27, 2879-2900.	4.1	20
68	On the novel mechanisms for social memory and the emerging role of neurogenesis. <i>Brain Research Bulletin</i> , 2021, 171, 56-66.	1.4	8
69	Distinct functions of ventral CA1 and dorsal CA2 in social memory. <i>Current Opinion in Neurobiology</i> , 2021, 68, 29-35.	2.0	22
70	Longâ€“term plasticity in the hippocampus: maintaining within and â€“taggingâ€“ between synapses. <i>FEBS Journal</i> , 2022, 289, 2176-2201.	2.2	42
71	RGS14 modulates locomotor behavior and ERK signaling induced by environmental novelty and cocaine within discrete limbic structures. <i>Psychopharmacology</i> , 2021, 238, 2755-2773.	1.5	8
72	Do hippocampal pyramidal cells respond to nonspatial stimuli?. <i>Physiological Reviews</i> , 2021, 101, 1427-1456.	13.1	49
73	Systemic depletion of histone macroH2A1.1 boosts hippocampal synaptic plasticity and social behavior in mice. <i>FASEB Journal</i> , 2021, 35, e21793.	0.2	11
74	CA2 beyond social memory: Evidence for a fundamental role in hippocampal information processing. <i>Neuroscience and Biobehavioral Reviews</i> , 2021, 126, 398-412.	2.9	27

#	ARTICLE	IF	CITATIONS
75	Nonlocal spatiotemporal representation in the hippocampus of freely flying bats. <i>Science</i> , 2021, 373, 242-247.	6.0	24
77	Metaplastic Reinforcement of Long-Term Potentiation in Hippocampal Area CA2 by Cholinergic Receptor Activation. <i>Journal of Neuroscience</i> , 2021, 41, 9082-9098.	1.7	5
78	Expanding the concept of social behavior to interspecific interactions. <i>Ethology</i> , 2021, 127, 758-773.	0.5	12
80	Territorial blueprint in the hippocampal system. <i>Trends in Cognitive Sciences</i> , 2021, 25, 831-842.	4.0	4
81	Positive modulation of $\hat{\pm}5$ GABAA receptors leads to dichotomous effects in rats on memory pattern and GABRA5 expression in prefrontal cortex and hippocampus. <i>Behavioural Brain Research</i> , 2022, 416, 113578.	1.2	4
84	Hippocampal CA2 Organizes CA1 Slow and Fast $\hat{3}$ Oscillations during Novel Social and Object Interaction. <i>ENeuro</i> , 2020, 7, ENEURO.0084-20.2020.	0.9	11
85	Social observation enhances cross-environment activation of hippocampal place cell patterns. <i>ELife</i> , 2016, 5, .	2.8	19
86	CA2 neuronal activity controls hippocampal low gamma and ripple oscillations. <i>ELife</i> , 2018, 7, .	2.8	63
87	Septal cholinergic input to CA2 hippocampal region controls social novelty discrimination via nicotinic receptor-mediated disinhibition. <i>ELife</i> , 2021, 10, .	2.8	16
89	Proximodistal Organization of the CA2 Hippocampal Area. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
90	Stress and social development in adolescence in a rodent model. , 2018, , 479-503.		0
97	Neuronal Response and Behavioral Modulation in Social Interactions. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1284, 43-48.	0.8	0
100	Involvement of the Hypothalamic Nuclei in Forming Objectâ€™Place Associations in Neurons of Hippocampal Field CA2 (a hypothetical mechanism). <i>Neuroscience and Behavioral Physiology</i> , 2021, 51, 1086-1097.	0.2	1
103	Lacking social support is associated with structural divergences in hippocampusâ€™default network co-variation patterns. <i>Social Cognitive and Affective Neuroscience</i> , 2022, 17, 802-818.	1.5	2
104	A direct lateral entorhinal cortex to hippocampal CA2 circuit conveys social information required for social memory. <i>Neuron</i> , 2022, 110, 1559-1572.e4.	3.8	48
108	Engineering a 3D hydrogel system to study optic nerve head astrocyte morphology and behavior. <i>Experimental Eye Research</i> , 2022, 220, 109102.	1.2	3
109	Neural circuits regulating prosocial behaviors. <i>Neuropsychopharmacology</i> , 2023, 48, 79-89.	2.8	23
110	Interpersonal Family Dynamics Relate to Hippocampal CA Subfield Structure. <i>Frontiers in Neuroscience</i> , 0, 16, .	1.4	2

#	ARTICLE	IF	CITATIONS
111	Hippocampal oscillatory dynamics in freely behaving rats during exploration of social and non-social stimuli. <i>Cognitive Neurodynamics</i> , 2023, 17, 411-429.	2.3	2
112	Dynamic Hippocampal CA2 Responses to Contextual Spatial Novelty. <i>Frontiers in Systems Neuroscience</i> , 0, 16, .	1.2	1
113	Decreased cognitive function of ALG13KO female mice may be related to the decreased plasticity of hippocampal neurons. <i>Neuropeptides</i> , 2022, 96, 102290.	0.9	2
114	Grid cell remapping under three-dimensional object and social landmarks detected by implantable microelectrode arrays for the medial entorhinal cortex. <i>Microsystems and Nanoengineering</i> , 2022, 8, .	3.4	3
115	CA2 physiology underlying social memory. <i>Current Opinion in Neurobiology</i> , 2022, 77, 102642.	2.0	3
116	Dynamic coding in the hippocampus during navigation. <i>Zoological Research</i> , 2022, 43, 1023-1025.	0.9	2
117	REM sleep-active hypothalamic neurons may contribute to hippocampal social-memory consolidation. <i>Neuron</i> , 2022, 110, 4000-4014.e6.	3.8	15
119	Neuronal ensemble dynamics in social memory. <i>Current Opinion in Neurobiology</i> , 2023, 78, 102654.	2.0	3
120	Loss of GABA co-transmission from cholinergic neurons impairs behaviors related to hippocampal, striatal, and medial prefrontal cortex functions. <i>Frontiers in Behavioral Neuroscience</i> , 0, 16, .	1.0	1
121	A metabolite attenuates neuroinflammation, synaptic loss and cognitive deficits induced by chronic infection of <i>Toxoplasma gondii</i> . <i>Frontiers in Immunology</i> , 0, 13, .	2.2	6
122	Behavioral status modulates <sc>CA2</sc> influence on hippocampal network dynamics. <i>Hippocampus</i> , 2023, 33, 252-265.	0.9	3
123	<sc>CA2</sc> orchestrates hippocampal network dynamics. <i>Hippocampus</i> , 2023, 33, 241-251.	0.9	7
124	Neuromodulatory functions exerted by oxytocin on different populations of hippocampal neurons in rodents. <i>Frontiers in Cellular Neuroscience</i> , 0, 17, .	1.8	3
125	Morphological and molecular markers of mouse area <sc>CA2</sc> along the proximodistal and dorsoventral hippocampal axes. <i>Hippocampus</i> , 2023, 33, 133-149.	0.9	7
126	Layer-specific mitochondrial diversity across hippocampal <sc>CA2</sc> dendrites. <i>Hippocampus</i> , 2023, 33, 182-196.	0.9	3
127	Effects of social context manipulation on dorsal and ventral hippocampal neuronal responses. <i>Hippocampus</i> , 2023, 33, 830-843.	0.9	4
128	Organization of hippocampal CA3 into correlated cell assemblies supports a stable spatial code. <i>Cell Reports</i> , 2023, 42, 112119.	2.9	10
129	Introduction to the special issue on: A new view of hippocampal area <sc>CA2</sc>. <i>Hippocampus</i> , 2023, 33, 127-132.	0.9	1

#	ARTICLE	IF	CITATIONS
130	Projections of hippocampal <scp>CA2</scp> pyramidal neurons: Distinct innervation patterns of <scp>CA2</scp> compared to <scp>CA3</scp> in rodents. Hippocampus, 0, , .	0.9	2
131	Stable Firing Pattern of Excitatory Neurons in the Prefrontal Cortex of Rats during Social Behaviors. , 2022, , .		0
132	Predictive Coding of Hippocampal Place Cell Ensembles during Early Phase of Spatial Decision-making. , 2022, , .		0
133	Reward Coding of Hippocampal Neurons in Goal-directed Spatial Memory. , 2022, , .		0
134	Silencing hippocampal <scp>CA2</scp> reduces behavioral flexibility in spatial learning. Hippocampus, 0, , .	0.9	0
135	Alteration of hippocampal <scp>CA2</scp> plasticity and social memory in adult rats impacted by juvenile stress. Hippocampus, 2023, 33, 745-758.	0.9	1
136	Inhibitory control of sharp-wave ripple duration during learning in hippocampal recurrent networks. Nature Neuroscience, 2023, 26, 788-797.	7.1	7