

# Suguru Kawato

## List of Publications by Year in descending order

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66  
papers

3,684  
citations

136885

32  
h-index

189801

50  
g-index

68  
all docs

68  
docs citations

68  
times ranked

3041  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adult male rat hippocampus synthesizes estradiol from pregnenolone by cytochromes P45017 $\beta$ and P450 aromatase localized in neurons. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 865-870.	3.3	584
2	Neurosteroid Synthesis by Cytochrome P450-Containing Systems Localized in the Rat Brain Hippocampal Neurons: N-Methyl-d-Aspartate and Calcium-Dependent Synthesis. Endocrinology, 2001, 142, 3578-3589.	1.4	221
3	Estrogen synthesis in the brain—Role in synaptic plasticity and memory. Molecular and Cellular Endocrinology, 2008, 290, 31-43.	1.6	185
4	Rapid modulation of long-term depression and spinogenesis via synaptic estrogen receptors in hippocampal principal neurons. Journal of Neurochemistry, 2007, 100, 950-967.	2.1	180
5	Comparison between Hippocampus-Synthesized and Circulation-Derived Sex Steroids in the Hippocampus. Endocrinology, 2009, 150, 5106-5112.	1.4	141
6	Mild exercise increases dihydrotestosterone in hippocampus providing evidence for androgenic mediation of neurogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13100-13105.	3.3	133
7	Modulation of synaptic plasticity by brain estrogen in the hippocampus. Biochimica Et Biophysica Acta - General Subjects, 2010, 1800, 1030-1044.	1.1	126
8	Female hippocampal estrogens have a significant correlation with cyclic fluctuation of hippocampal spines. Frontiers in Neural Circuits, 2013, 7, 149.	1.4	126
9	Hippocampal cytochrome P450s synthesize brain neurosteroids which are paracrine neuromodulators of synaptic signal transduction. Biochimica Et Biophysica Acta - General Subjects, 2003, 1619, 301-316.	1.1	119
10	Rapid modulation of synaptic plasticity by estrogens as well as endocrine disrupters in hippocampal neurons. Brain Research Reviews, 2008, 57, 363-375.	9.1	108
11	Modulation of synaptic plasticity in the hippocampus by hippocampus-derived estrogen and androgen. Journal of Steroid Biochemistry and Molecular Biology, 2012, 131, 37-51.	1.2	106
12	Hippocampal synthesis of estrogens and androgens which are paracrine modulators of synaptic plasticity: Synaptocrinology. Neuroscience, 2006, 138, 757-764.	1.1	99
13	Local Neurosteroid Production in the Hippocampus: Influence on Synaptic Plasticity of Memory. Neuroendocrinology, 2006, 84, 255-263.	1.2	98
14	Estradiol rapidly modulates synaptic plasticity of hippocampal neurons: Involvement of kinase networks. Brain Research, 2015, 1621, 147-161.	1.1	78
15	Rapid increase of spines by dihydrotestosterone and testosterone in hippocampal neurons: Dependence on synaptic androgen receptor and kinase networks. Brain Research, 2015, 1621, 121-132.	1.1	78
16	Rapid spinogenesis of pyramidal neurons induced by activation of glucocorticoid receptors in adult male rat hippocampus. Biochemical and Biophysical Research Communications, 2005, 335, 1002-1007.	1.0	73
17	Comparison between basal and apical dendritic spines in estrogen-induced rapid spinogenesis of CA1 principal neurons in the adult hippocampus. Biochemical and Biophysical Research Communications, 2006, 351, 553-558.	1.0	72
18	Retinoic Acid Stimulates 17 $\beta$ -Estradiol and Testosterone Synthesis in Rat Hippocampal Slice Cultures. Endocrinology, 2009, 150, 4260-4269.	1.4	72

#	ARTICLE	IF	CITATIONS
19	Hippocampal Synthesis of Sex Steroids and Corticosteroids: Essential for Modulation of Synaptic Plasticity. <i>Frontiers in Endocrinology</i> , 2011, 2, 43.	1.5	65
20	Androgen rapidly increases dendritic thorns of CA3 neurons in male rat hippocampus. <i>Biochemical and Biophysical Research Communications</i> , 2009, 381, 728-732.	1.0	64
21	Local Production of Sex Hormones and Their Modulation of Hippocampal Synaptic Plasticity. <i>Neuroscientist</i> , 2007, 13, 323-334.	2.6	62
22	Neurosteroids in Adult Hippocampus of Male and Female Rodents: Biosynthesis and Actions of Sex Steroids. <i>Frontiers in Endocrinology</i> , 2018, 9, 183.	1.5	57
23	Increase in salivary oxytocin and decrease in salivary cortisol after listening to relaxing slow-tempo and exciting fast-tempo music. <i>PLoS ONE</i> , 2017, 12, e0189075.	1.1	56
24	Corticosterone Induces Rapid Spinogenesis via Synaptic Glucocorticoid Receptors and Kinase Networks in Hippocampus. <i>PLoS ONE</i> , 2012, 7, e34124.	1.1	56
25	Estrogen induces rapid decrease in dendritic thorns of CA3 pyramidal neurons in adult male rat hippocampus. <i>Biochemical and Biophysical Research Communications</i> , 2005, 337, 1345-1352.	1.0	49
26	Histological and metabolism analysis of P450 expression in the brain. <i>Methods in Enzymology</i> , 2002, 357, 241-249.	0.4	48
27	Brain neurosteroids are 4th generation neuromessengers in the brain: Cell biophysical analysis of steroid signal transduction. <i>Advances in Biophysics</i> , 2003, 37, 1-48.	0.6	47
28	Semicomprehensive Analysis of the Postnatal Age-Related Changes in the mRNA Expression of Sex Steroidogenic Enzymes and Sex Steroid Receptors in the Male Rat Hippocampus. <i>Endocrinology</i> , 2010, 151, 5795-5806.	1.4	42
29	Hippocampal spine changes across the sleep-wake cycle: corticosterone and kinases. <i>Journal of Endocrinology</i> , 2015, 226, M13-M27.	1.2	40
30	Automated Analysis of Spines from Confocal Laser Microscopy Images: Application to the Discrimination of Androgen and Estrogen Effects on Spinogenesis. <i>Cerebral Cortex</i> , 2011, 21, 2704-2711.	1.6	39
31	Modulation of AKR1C2 by curcumin decreases testosterone production in prostate cancer. <i>Cancer Science</i> , 2018, 109, 1230-1238.	1.7	38
32	Role of Cytochrome P450 in Synaptocrinology: Endogenous Estrogen Synthesis in the Brain Hippocampus. <i>Drug Metabolism Reviews</i> , 2006, 38, 353-369.	1.5	35
33	Estradiol rapidly modulates spinogenesis in hippocampal dentate gyrus: Involvement of kinase networks. <i>Hormones and Behavior</i> , 2015, 74, 149-156.	1.0	35
34	Endogenous Synthesis of Corticosteroids in the Hippocampus. <i>PLoS ONE</i> , 2011, 6, e21631.	1.1	32
35	Estrogen receptor KO mice study on rapid modulation of spines and long-term depression in the hippocampus. <i>Brain Research</i> , 2015, 1621, 133-146.	1.1	32
36	Rapid nongenomic modulation by neurosteroids of dendritic spines in the hippocampus: Androgen, oestrogen and corticosteroid. <i>Journal of Neuroendocrinology</i> , 2018, 30, e12561.	1.2	31

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37	Corticosterone rapidly increases thorns of CA3 neurons via synaptic/extranuclear glucocorticoid receptor in rat hippocampus. <i>Frontiers in Neural Circuits</i> , 2013, 7, 191.	1.4	30
38	Acute modulation of synaptic plasticity of pyramidal neurons by activin in adult hippocampus. <i>Frontiers in Neural Circuits</i> , 2014, 8, 56.	1.4	27
39	Estradiol Rapidly Rescues Synaptic Transmission from Corticosterone-induced Suppression via Synaptic/Extranuclear Steroid Receptors in the Hippocampus. <i>Cerebral Cortex</i> , 2012, 22, 926-936.	1.6	26
40	Potential of 17 $\beta$ -estradiol synthesis in the brain and elongation of seizure latency through dietary supplementation with docosahexaenoic acid. <i>Scientific Reports</i> , 2017, 7, 6268.	1.6	24
41	Comparison of sex-steroid synthesis between neonatal and adult rat hippocampus. <i>Biochemical and Biophysical Research Communications</i> , 2009, 385, 62-66.	1.0	23
42	Nanomolar dose of bisphenol A rapidly modulates spinogenesis in adult hippocampal neurons. <i>Molecular and Cellular Endocrinology</i> , 2012, 351, 317-325.	1.6	21
43	Bidirectional Synaptic Plasticity Is Driven by Sex Neurosteroids Targeting Estrogen and Androgen Receptors in Hippocampal CA1 Pyramidal Neurons. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 534.	1.8	20
44	Endocrine disrupters as disrupters of brain function: a neurosteroid viewpoint. <i>Environmental Sciences: an International Journal of Environmental Physiology and Toxicology</i> , 2004, 11, 1-14.	0.1	17
45	The effect of transcranial magnetic stimulation on long-term potentiation in rat hippocampus. <i>IEEE Transactions on Magnetics</i> , 2003, 39, 3390-3392.	1.2	16
46	Src Kinase Dependent Rapid Non-genomic Modulation of Hippocampal Spinogenesis Induced by Androgen and Estrogen. <i>Frontiers in Neuroscience</i> , 2018, 12, 282.	1.4	15
47	Monoclonal antibody 14F7, which recognizes a stage-specific immature oligodendrocyte surface molecule, inhibits oligodendrocyte differentiation mediated in co-culture with astrocytes. <i>Journal of Neuroscience Research</i> , 1998, 54, 79-96.	1.3	14
48	Ingested d-Aspartate Facilitates the Functional Connectivity and Modifies Dendritic Spine Morphology in Rat Hippocampus. <i>Cerebral Cortex</i> , 2019, 29, 2499-2508.	1.6	13
49	Perinatal Exposure of Bisphenol A Differently Affects Dendritic Spines of Male and Female Grown-Up Adult Hippocampal Neurons. <i>Frontiers in Neuroscience</i> , 2021, 15, 712261.	1.4	8
50	Regulation of synaptic plasticity by hippocampus synthesized estradiol. <i>Hormone Molecular Biology and Clinical Investigation</i> , 2011, 7, 361-375.	0.3	2
51	The effects of repetitive transcranial magnetic stimulation on the injured neurons in rats. , 2005, , .		1
52	Neurosteroids are 4th Generation Neuromessengers which are Synthesized in the Brain and Enhance/Suppress Learning and Memory.. <i>Seibutsu Butsuri</i> , 2001, 41, 290-294.	0.0	0
53	The effect of transcranial magnetic stimulation on long-term potentiation in rat hippocampus. , 0, , .		0
54	2P389 Immunohistochemical localization of steroidogenic enzymes in the rat hippocampus(44.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6</i> 46, S393.	0.0	0

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55	1P395 An attempt at imaging of single functioning synaptosomes(15. Cellular signal) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 2006, 46, S245.	0.0	0
56	2P384 Non-genomic rapid effects of estradiol, a xenoestrogen and androgen on hippocampal synapses(44. Neuro-biophysics,Poster Session,Abstract,Meeting Program of EABS & BSJ 2006). Seibutsu Butsuri, 2006, 46, S391.	0.0	0
57	1P191 Single synaptosomes imaging with fluorescence microscopy(Neurons and sensory system,Poster) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747	0.0	0
58	3P-237 Components of NMDA-induced Ca <sup>2+</sup> signal in mouse hippocampal slices and acute effects of corticosterone on each component(The 46th Annual Meeting of the Biophysical Society of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 747	0.0	0
59	2P-251 Fluorescence imaging of synaptic vesicles' polarization in single synaptosomes(The 46th Annual) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747	0.0	0
60	2P-194 Low dose effects of Bisphenol A on the Synaptic Plasticity in Rat Hippocampal Neurons(Neuroscience & Sensory systems,The 47th Annual Meeting of the Biophysical Society of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 747	0.0	0
61	3P249 Role of mitochondria in polarization of synaptic vesicles in presynaptic terminals.(Neuroscience & Sensory systems,The 48th Annual Meeting of the Biophysical Society of) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747	0.0	0
62	3F1434 Role of mitochondria in polarization of synaptic vesicles(3F Neuroscience & Sensory systems,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 747	0.0	0
63	3P234 Acute Modulation of Synaptic Plasticity of Pyramidal Neurons by Hippocampal-derived Sex Steroids(16. Neuronal Circuit & Information processing,Poster). Seibutsu Butsuri, 2013, 53, S250.	0.0	0
64	1P229 Analysis of neurosteroid effects on hippocampal neural circuits using novel multi-electrode probe methods(16. Neuronal circuit & Information processing,Poster,The 52nd Annual Meeting of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 747	0.0	0
65	Modulation of Learning and Memory by Neurosteroids in the Hippocampus. Seibutsu Butsuri, 2011, 51, 076-079.	0.0	0
66	Co-immunoprecipitation Methods to Identify Associated Proteins with Estrogen Receptor $\alpha$ at Postsynaptic Density in Brain Tissue. Neuromethods, 2019, , 9-21.	0.2	0