

Yukihiro Okuno

List of Publications by Year in descending order

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63
papers

5,080
citations

159525

30
h-index

133188

59
g-index

68
all docs

68
docs citations

68
times ranked

6467
citing authors

#	ARTICLE	IF	CITATIONS
1	Arc/Arg3.1 Interacts with the Endocytic Machinery to Regulate AMPA Receptor Trafficking. <i>Neuron</i> , 2006, 52, 445-459.	3.8	691
2	Schema-Dependent Gene Activation and Memory Encoding in Neocortex. <i>Science</i> , 2011, 333, 891-895.	6.0	535
3	Role of Immediate-Early Genes in Synaptic Plasticity and Neuronal Ensembles Underlying the Memory Trace. <i>Frontiers in Molecular Neuroscience</i> , 2015, 8, 78.	1.4	347
4	Inverse Synaptic Tagging of Inactive Synapses via Dynamic Interaction of Arc/Arg3.1 with CaMKII β . <i>Cell</i> , 2012, 149, 886-898.	13.5	269
5	Regulation and function of immediate-early genes in the brain: Beyond neuronal activity markers. <i>Neuroscience Research</i> , 2011, 69, 175-186.	1.0	236
6	Synaptic activity-responsive element in the Arc / Arg3.1 promoter essential for synapse-to-nucleus signaling in activated neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 316-321.	3.3	229
7	Difference in transcriptional regulatory function between c-Fos and Fra-2. <i>Nucleic Acids Research</i> , 1991, 19, 5537-5542.	6.5	193
8	Chronic Optogenetic Activation Augments A β Pathology in a Mouse Model of Alzheimer Disease. <i>Cell Reports</i> , 2015, 11, 859-865.	2.9	186
9	Functional labeling of neurons and their projections using the synthetic activity-dependent promoter E-SARE. <i>Nature Methods</i> , 2013, 10, 889-895.	9.0	166
10	Synaptic Tagging and Capture: Differential Role of Distinct Calcium/Calmodulin Kinases in Protein Synthesis-Dependent Long-Term Potentiation. <i>Journal of Neuroscience</i> , 2010, 30, 4981-4989.	1.7	155
11	BDNF upregulation during declarative memory formation in monkey inferior temporal cortex. <i>Nature Neuroscience</i> , 2000, 3, 1134-1142.	7.1	138
12	Locally coordinated synaptic plasticity of visual cortex neurons in vivo. <i>Science</i> , 2018, 360, 1349-1354.	6.0	137
13	A new era for functional labeling of neurons: activity-dependent promoters have come of age. <i>Frontiers in Neural Circuits</i> , 2014, 8, 37.	1.4	128
14	Real-Time Measurements of Protein Dynamics Using Fluorescence Activation-Coupled Protein Labeling Method. <i>Journal of the American Chemical Society</i> , 2011, 133, 6745-6751.	6.6	122
15	Regulation of Dendritogenesis via a Lipid-Raft-Associated Ca $^{2+}$ /Calmodulin-Dependent Protein Kinase CLICK-III/CaMKII β . <i>Neuron</i> , 2007, 54, 755-770.	3.8	110
16	Arc/Arg3.1 Is a Postsynaptic Mediator of Activity-Dependent Synapse Elimination in the Developing Cerebellum. <i>Neuron</i> , 2013, 78, 1024-1035.	3.8	96
17	Expression of the Transcription Factor Zif268 in the Temporal Cortex of Monkeys during Visual Paired Associate Learning. <i>European Journal of Neuroscience</i> , 1996, 8, 2118-2128.	1.2	95
18	Region-Specific Activation of CRTC1-CREB Signaling Mediates Long-Term Fear Memory. <i>Neuron</i> , 2014, 84, 92-106.	3.8	88

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19	Control of Cortical Axon Elongation by a GABA-Driven Ca ²⁺ /Calmodulin-Dependent Protein Kinase Cascade. <i>Journal of Neuroscience</i> , 2009, 29, 13720-13729.	1.7	85
20	Nonlinear Decoding and Asymmetric Representation of Neuronal Input Information by CaMKII β and Calcineurin. <i>Cell Reports</i> , 2013, 3, 978-987.	2.9	85
21	Executive Function Deficits and Social-Behavioral Abnormality in Mice Exposed to a Low Dose of Dioxin In Utero and via Lactation. <i>PLoS ONE</i> , 2012, 7, e50741.	1.1	66
22	Shifting transcriptional machinery is required for long-term memory maintenance and modification in <i>Drosophila</i> mushroom bodies. <i>Nature Communications</i> , 2016, 7, 13471.	5.8	65
23	Feedback signal from medial temporal lobe mediates visual associative mnemonic codes of inferotemporal neurons. <i>Cognitive Brain Research</i> , 1996, 5, 81-86.	3.3	62
24	Light Control of the Tet Gene Expression System in Mammalian Cells. <i>Cell Reports</i> , 2018, 25, 487-500.e6.	2.9	62
25	Whole-brain mapping of behaviourally induced neural activation in mice. <i>Brain Structure and Function</i> , 2015, 220, 2043-2057.	1.2	56
26	Neuromodulatory Effect of G β - or G γ -Coupled G-Protein-Coupled Receptor on NMDA Receptor Selectively Activates the NMDA Receptor/Ca ²⁺ /Calcineurin/cAMP Response Element-Binding Protein-Regulated Transcriptional Coactivator 1 Pathway to Effectively Induce Brain-Derived Neurotrophic Factor Expression in Neurons. <i>Journal of Neuroscience</i> , 2015, 35, 5606-5624.	1.7	53
27	Molecular Identification and Characterization of a Family of Kinases with Homology to Ca ²⁺ /Calmodulin-dependent Protein Kinases I/IV. <i>Journal of Biological Chemistry</i> , 2006, 281, 20427-20439.	1.6	45
28	Arc restores juvenile plasticity in adult mouse visual cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9182-9187.	3.3	40
29	High-level Expression of Human c-jun Gene Causes Cellular Transformation of Chicken Embryo Fibroblasts. <i>Japanese Journal of Cancer Research</i> , 1991, 82, 58-64.	1.7	39
30	Quantitative evaluation of neurotrophin and trk mRNA expression in visual and limbic areas along the occipito-temporo-hippocampal pathway in adult macaque monkeys. <i>Journal of Comparative Neurology</i> , 1999, 408, 378-398.	0.9	39
31	Long-Term Consolidation of Ensemble Neural Plasticity Patterns in Hippocampal Area CA1. <i>Cell Reports</i> , 2018, 25, 640-650.e2.	2.9	39
32	Nrp2 is sufficient to instruct circuit formation of mitral-cells to mediate odour-induced attractive social responses. <i>Nature Communications</i> , 2017, 8, 15977.	5.8	39
33	Inverse synaptic tagging: An inactive synapse-specific mechanism to capture activity-induced Arc/arg3.1 and to locally regulate spatial distribution of synaptic weights. <i>Seminars in Cell and Developmental Biology</i> , 2018, 77, 43-50.	2.3	31
34	Deficiency of AMPAR β -Palmitoylation Aggravates Seizure Susceptibility. <i>Journal of Neuroscience</i> , 2018, 38, 10220-10235.	1.7	30
35	Spatiotemporal Dynamics of Brain-Derived Neurotrophic Factor mRNA Induction in the Vestibulo-Olivary Network during Vestibular Compensation. <i>Journal of Neuroscience</i> , 2001, 21, 2738-2748.	1.7	27
36	Clastrum mediates bidirectional and reversible control of stress-induced anxiety responses. <i>Science Advances</i> , 2022, 8, eabi6375.	4.7	27

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37	Temporal and spatial dissociation of expression patterns between Zif268 and c-Fos in rat inferior olive during vestibular compensation. <i>NeuroReport</i> , 1997, 8, 1891-1895.	0.6	23
38	Selective zif268 mRNA induction in the perirhinal cortex of macaque monkeys during formation of visual pair-association memory. <i>Journal of Neurochemistry</i> , 2002, 81, 60-70.	2.1	21
39	Highest trkB mRNA expression in the entorhinal cortex among hippocampal subregions in the adult rat: contrasting pattern with BDNF mRNA expression. <i>Molecular Brain Research</i> , 1998, 62, 206-215.	2.5	20
40	Differential roles for CaM kinases in mediating excitationâ€“morphogenesis coupling during formation and maturation of neuronal circuits. <i>European Journal of Neuroscience</i> , 2010, 32, 224-230.	1.2	20
41	Class I Histone Deacetylase-mediated Repression of the Proximal Promoter of the Activity-regulated Cytoskeleton-associated Protein Gene Regulates Its Response to Brain-derived Neurotrophic Factor. <i>Journal of Biological Chemistry</i> , 2015, 290, 6825-6836.	1.6	18
42	Untangling the two-way signalling route from synapses to the nucleus, and from the nucleus back to the synapses. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130150.	1.8	17
43	Visualization of Cortical Projection Neurons with Retrograde TET-Off Lentiviral Vector. <i>PLoS ONE</i> , 2012, 7, e46157.	1.1	17
44	Delayed Degradation and Impaired Dendritic Delivery of Intron-Lacking EGFP-Arc/Arg3.1 mRNA in EGFP-Arc Transgenic Mice. <i>Frontiers in Molecular Neuroscience</i> , 2017, 10, 435.	1.4	16
45	Synaptic Activity Responsive Element (SARE). <i>Communicative and Integrative Biology</i> , 2010, 3, 443-446.	0.6	14
46	Li deposition and desolvation with electron transfer at a silicon/propylene-carbonate interface: transition-state and free-energy profiles by large-scale first-principles molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11586-11591.	1.3	12
47	Quantification of neurotrophin-3 mRNA in the rat hippocampal subregions using the RT-PCR-based coamplification method. <i>Brain Research Protocols</i> , 1999, 4, 407-414.	1.7	11
48	Higher Arc Nucleus-to-Cytoplasm Ratio during Sleep in the Superficial Layers of the Mouse Cortex. <i>Frontiers in Neural Circuits</i> , 2017, 11, 60.	1.4	10
49	Deciphering the molecular rules governing synaptic targeting of the memory-related protein Arc. <i>Communicative and Integrative Biology</i> , 2012, 5, 496-498.	0.6	9
50	Involvement of SRF coactivator MKL2 in BDNF-mediated activation of the synaptic activity-responsive element in the Arc gene. <i>Journal of Neurochemistry</i> , 2019, 148, 204-218.	2.1	9
51	Perturbed expression pattern of the immediate early gene Arc in the dentate gyrus of GluA1 C-terminal palmitoylation-deficient mice. <i>Neuropsychopharmacology Reports</i> , 2018, 39, 61-66.	1.1	8
52	Retained Plasticity and Substantial Recovery of Rod-Mediated Visual Acuity at the Visual Cortex in Blind Adult Mice with Retinal Dystrophy. <i>Molecular Therapy</i> , 2018, 26, 2397-2406.	3.7	6
53	Prolonged contextual fear memory in AMPA receptor palmitoylation-deficient mice. <i>Neuropsychopharmacology</i> , 2022, 47, 2150-2159.	2.8	5
54	Seizure-Induced Arc mRNA Expression Thresholds in Rat Hippocampus and Perirhinal Cortex. <i>Frontiers in Systems Neuroscience</i> , 2018, 12, 53.	1.2	3

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55	Quantification of native mRNA dynamics in living neurons using fluorescence correlation spectroscopy and reduction-triggered fluorescent probes. <i>Journal of Biological Chemistry</i> , 2020, 295, 7923-7940.	1.6	3
56	Rpd3/CoRest-mediated activity-dependent transcription regulates the flexibility in memory updating in <i>Drosophila</i> . <i>Nature Communications</i> , 2021, 12, 628.	5.8	3
57	Direct Injection of Recombinant AAV-Containing Solution into the Oviductal Lumen of Pregnant Mice Caused In Situ Infection of Both Preimplantation Embryos and Oviductal Epithelium. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4897.	1.8	3
58	Cooperation of LIM domain-binding 2 (LDB2) with EGR in the pathogenesis of schizophrenia. <i>EMBO Molecular Medicine</i> , 2021, 13, e12574.	3.3	2
59	Gastrin-releasing peptide regulates fear learning under stressed conditions via activation of the amygdalostratial transition area. <i>Molecular Psychiatry</i> , 2022, 27, 1694-1703.	4.1	1
60	Selected Key Areas for Future Research on the Claustrum. , 2014, , 365-376.		0
61	Inverse Synaptic Tagging by Arc. , 2016, , 99-117.		0
62	CREB. , 2016, , 1-7.		0
63	CREB. , 2018, , 1203-1209.		0