

# Suk-Ho Lee

## List of Publications by Year in descending order

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62  
papers

2,443  
citations

257450

24  
h-index

214800

47  
g-index

65  
all docs

65  
docs citations

65  
times ranked

3208  
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein-based human iPS cells efficiently generate functional dopamine neurons and can treat a rat model of Parkinson disease. <i>Journal of Clinical Investigation</i> , 2011, 121, 2326-2335.	8.2	211
2	Kinetics of Ca <sup>2+</sup> binding to parvalbumin in bovine chromaffin cells: implications for [Ca <sup>2+</sup> ] transients of neuronal dendrites. <i>Journal of Physiology</i> , 2000, 525, 419-432.	2.9	157
3	Differences in Ca <sup>2+</sup> buffering properties between excitatory and inhibitory hippocampal neurons from the rat. <i>Journal of Physiology</i> , 2000, 525, 405-418.	2.9	120
4	Interplay between Na <sup>+</sup> /Ca <sup>2+</sup> Exchangers and Mitochondria in Ca <sup>2+</sup> Clearance at the Calyx of Held. <i>Journal of Neuroscience</i> , 2005, 25, 6057-6065.	3.6	120
5	Stretch-activated and background non-selective cation channels in rat atrial myocytes. <i>Journal of Physiology</i> , 2000, 523, 607-619.	2.9	107
6	Functional Recapitulation of Smooth Muscle Cells Via Induced Pluripotent Stem Cells From Human Aortic Smooth Muscle Cells. <i>Circulation Research</i> , 2010, 106, 120-128.	4.5	100
7	Dimethyl Lithospermate B, an Extract of Danshen, Suppresses Arrhythmogenesis Associated With the Brugada Syndrome. <i>Circulation</i> , 2006, 113, 1393-1400.	1.6	93
8	Activation of NMDA receptors increases proliferation and differentiation of hippocampal neural progenitor cells. <i>Journal of Cell Science</i> , 2007, 120, 1358-1370.	2.0	86
9	Actin-dependent rapid recruitment of reluctant synaptic vesicles into a fast-releasing vesicle pool. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E765-74.	7.1	85
10	Superpriming of synaptic vesicles after their recruitment to the readily releasable pool. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 15079-15084.	7.1	78
11	Presynaptic Release Probability and Readily Releasable Pool Size Are Regulated by Two Independent Mechanisms during Posttetanic Potentiation at the Calyx of Held Synapse. <i>Journal of Neuroscience</i> , 2008, 28, 7945-7953.	3.6	72
12	Glucose Deprivation Regulates KATP Channel Trafficking via AMP-Activated Protein Kinase in Pancreatic $\beta^2$ -Cells. <i>Diabetes</i> , 2009, 58, 2813-2819.	0.6	71
13	Impaired Short-Term Plasticity in Mossy Fiber Synapses Caused by Mitochondrial Dysfunction of Dentate Granule Cells Is the Earliest Synaptic Deficit in a Mouse Model of Alzheimer's Disease. <i>Journal of Neuroscience</i> , 2012, 32, 5953-5963.	3.6	71
14	Target Cell-Specific Involvement of Presynaptic Mitochondria in Post-Tetanic Potentiation at Hippocampal Mossy Fiber Synapses. <i>Journal of Neuroscience</i> , 2007, 27, 13603-13613.	3.6	70
15	K <sup>+</sup> -Dependent Na <sup>+</sup> /Ca <sup>2+</sup> Exchange Is a Major Ca <sup>2+</sup> Clearance Mechanism in Axon Terminals of Rat Neurohypophysis. <i>Journal of Neuroscience</i> , 2002, 22, 6891-6899.	3.6	69
16	Leptin promotes K <sup>ATP</sup> channel trafficking by AMPK signaling in pancreatic $\beta^2$ -cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12673-12678.	7.1	69
17	NADH and NAD modulates Ca <sup>2+</sup> -activated K <sup>+</sup> channels in small pulmonary arterial smooth muscle cells of the rabbit. <i>Pflügers Archiv European Journal of Physiology</i> , 1994, 427, 378-380.	2.8	56
18	L-type Ca <sup>2+</sup> channel facilitation mediated by H <sub>2</sub> O <sub>2</sub> -induced activation of CaMKII in rat ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2010, 48, 773-780.	1.9	53

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19	Prolonged Membrane Depolarization Enhances Midbrain Dopamine Neuron Differentiation via Epigenetic Histone Modifications. <i>Stem Cells</i> , 2011, 29, 1861-1873.	3.2	52
20	Receptor-specific inhibition of GABAB-activated K <sup>+</sup> currents by muscarinic and metabotropic glutamate receptors in immature rat hippocampus. <i>Journal of Physiology</i> , 2007, 580, 411-422.	2.9	46
21	Distribution of K <sup>+</sup> -Dependent Na <sup>+</sup> /Ca <sup>2+</sup> Exchangers in the Rat Supraoptic Magnocellular Neuron Is Polarized to Axon Terminals. <i>Journal of Neuroscience</i> , 2003, 23, 11673-11680.	3.6	43
22	Post-tetanic increase in the fast-releasing synaptic vesicle pool at the expense of the slowly releasing pool. <i>Journal of General Physiology</i> , 2010, 136, 259-272.	1.9	43
23	Activity-dependent downregulation of D $\alpha$ 1-type K <sup>+</sup> channel subunit Kv1.2 in rat hippocampal CA3 pyramidal neurons. <i>Journal of Physiology</i> , 2013, 591, 5525-5540.	2.9	42
24	KIF21A-Mediated Axonal Transport and Selective Endocytosis Underlie the Polarized Targeting of NCKX2. <i>Journal of Neuroscience</i> , 2012, 32, 4102-4117.	3.6	35
25	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
26	Decrease in PIP2-channel interactions is the final common mechanism involved in PKC- and arachidonic acid-mediated inhibitions of GABAB-activated K <sup>+</sup> current. <i>Journal of Physiology</i> , 2007, 582, 1037-1046.	2.9	26
27	Dendritic spikes in hippocampal granule cells are necessary for long-term potentiation at the perforant path synapse. <i>ELife</i> , 2018, 7, .	6.0	24
28	Characterization of somatic Ca <sup>2+</sup> clearance mechanisms in young and mature hippocampal granule cells. <i>Cell Calcium</i> , 2009, 45, 465-473.	2.4	22
29	Bidirectional Signaling of Neuregulin-2 Mediates Formation of GABAergic Synapses and Maturation of Glutamatergic Synapses in Newborn Granule Cells of Postnatal Hippocampus. <i>Journal of Neuroscience</i> , 2015, 35, 16479-16493.	3.6	20
30	Costimulation of AMPA and Metabotropic Glutamate Receptors Underlies Phospholipase C Activation by Glutamate in Hippocampus. <i>Journal of Neuroscience</i> , 2015, 35, 6401-6412.	3.6	20
31	Kv4.1, a Key Ion Channel For Low Frequency Firing of Dentate Granule Cells, Is Crucial for Pattern Separation. <i>Journal of Neuroscience</i> , 2020, 40, 2200-2214.	3.6	20
32	A novel Na <sup>+</sup> channel agonist, dimethyl lithospermate B, slows Na <sup>+</sup> current inactivation and increases action potential duration in isolated rat ventricular myocytes. <i>British Journal of Pharmacology</i> , 2004, 143, 765-773.	5.4	19
33	Kv1.2 mediates heterosynaptic modulation of direct cortical synaptic inputs in CA3 pyramidal cells. <i>Journal of Physiology</i> , 2015, 593, 3617-3643.	2.9	19
34	Generation of metabolic oscillations by mitoKATP and ATP synthase during simulated ischemia in ventricular myocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2005, 39, 874-881.	1.9	18
35	Protein Kinase C-dependent Enhancement of Activity of Rat Brain NCKX2 Heterologously Expressed in HEK293 Cells. <i>Journal of Biological Chemistry</i> , 2006, 281, 39205-39216.	3.4	17
36	Postnatal developmental changes in Ca <sup>2+</sup> homeostasis in supraoptic magnocellular neurons. <i>Cell Calcium</i> , 2007, 41, 441-450.	2.4	17

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37	Sustained CaMKII activity mediates transient oxidative stress-induced long-term facilitation of L-type Ca <sup>2+</sup> current in cardiomyocytes. <i>Free Radical Biology and Medicine</i> , 2011, 51, 1708-1716.	2.9	17
38	Endocytosis of KATP Channels Drives Glucose-Stimulated Excitation of Pancreatic $\beta$ Cells. <i>Cell Reports</i> , 2018, 22, 471-481.	6.4	16
39	Intracellular Zn <sup>2+</sup> Signaling Facilitates Mossy Fiber Input-Induced Heterosynaptic Potentiation of Direct Cortical Inputs in Hippocampal CA3 Pyramidal Cells. <i>Journal of Neuroscience</i> , 2019, 39, 3812-3831.	3.6	15
40	Impaired pattern separation in Tg2576 mice is associated with hyperexcitable dentate gyrus caused by Kv4.1 downregulation. <i>Molecular Brain</i> , 2021, 14, 62.	2.6	15
41	Association of mGluR-Dependent LTD of Excitatory Synapses with Endocannabinoid-Dependent LTD of Inhibitory Synapses Leads to EPSP to Spike Potentiation in CA1 Pyramidal Neurons. <i>Journal of Neuroscience</i> , 2019, 39, 224-237.	3.6	14
42	Hydrogen peroxide selectively increases TREK-2 currents via myosin light chain kinases. <i>Frontiers in Bioscience - Landmark</i> , 2007, 12, 1642.	3.0	14
43	Endocytosis of somatodendritic NCKX2 is regulated by Src family kinase-dependent tyrosine phosphorylation. <i>Frontiers in Cellular Neuroscience</i> , 2013, 7, 14.	3.7	11
44	Rac-mediated actin remodeling and myosin II are involved in KATP channel trafficking in pancreatic $\beta$ -cells. <i>Experimental and Molecular Medicine</i> , 2015, 47, e190-e190.	7.7	11
45	Monitoring of ANP secretion from single atrial myocytes using densitometry. <i>Pflugers Archiv European Journal of Physiology</i> , 2002, 444, 568-577.	2.8	10
46	Role of K <sup>+</sup> Channels in Frequency Regulation of Spontaneous Action Potentials in Rat Pituitary GH <sub>3</sub> Cells. <i>Neuroendocrinology</i> , 2003, 78, 260-269.	2.5	10
47	Na <sup>+</sup> /Ca <sup>2+</sup> Exchange and Ca <sup>2+</sup> Homeostasis in Axon Terminals of Mammalian Central Neurons. <i>Annals of the New York Academy of Sciences</i> , 2007, 1099, 396-412.	3.8	10
48	Cyclic ADP Ribose-Dependent Ca <sup>2+</sup> Release by Group I Metabotropic Glutamate Receptors in Acutely Dissociated Rat Hippocampal Neurons. <i>PLoS ONE</i> , 2011, 6, e26625.	2.5	10
49	GABA mediates the network activity-dependent facilitation of axonal outgrowth from the newborn granule cells in the early postnatal rat hippocampus. <i>European Journal of Neuroscience</i> , 2012, 36, 2743-2752.	2.6	10
50	Li <sup>+</sup> enhances GABAergic inputs to granule cells in the rat hippocampal dentate gyrus. <i>Neuropharmacology</i> , 2004, 46, 638-646.	4.1	9
51	Inter-spike mitochondrial Ca <sup>2+</sup> release enhances high frequency synaptic transmission. <i>Journal of Physiology</i> , 2021, 599, 1567-1594.	2.9	9
52	Voltage-gated calcium channels contribute to spontaneous glutamate release directly via nanodomain coupling or indirectly via calmodulin. <i>Progress in Neurobiology</i> , 2022, 208, 102182.	5.7	9
53	Gradual decorrelation of CA3 ensembles associated with contextual discrimination learning is impaired by Kv1.2 insufficiency. <i>Hippocampus</i> , 2022, 32, 193-216.	1.9	9
54	Enhancement of dendritic persistent Na <sup>+</sup> currents by mGluR5 leads to an advancement of spike timing with an increase in temporal precision. <i>Molecular Brain</i> , 2018, 11, 67.	2.6	7

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55	Intracellular Mg <sup>2+</sup> hyperpolarizes rabbit coronary artery smooth muscle cells by differential modulation of Ca <sup>2+</sup> -dependent ion channels. <i>Pflügers Archiv European Journal of Physiology</i> , 2002, 444, 523-531.	2.8	6
56	Developmental upregulation of presynaptic NCKX underlies the decrease of mitochondria-dependent posttetanic potentiation at the rat calyx of Held synapse. <i>Journal of Neurophysiology</i> , 2013, 109, 1724-1734.	1.8	6
57	Ca <sup>2+</sup> clearance by plasmalemmal NCLX, Li <sup>+</sup> -permeable Na <sup>+</sup> /Ca <sup>2+</sup> exchanger, is required for the sustained exocytosis in rat insulinoma INS-1 cells. <i>Pflügers Archiv European Journal of Physiology</i> , 2015, 467, 2461-2472.	2.8	6
58	Disparities in Short-Term Depression Among Prefrontal Cortex Synapses Sustain Persistent Activity in a Balanced Network. <i>Cerebral Cortex</i> , 2020, 30, 113-134.	2.9	5
59	Ionic Selectivity of NCKX2, NCKX3, and NCKX4 for Monovalent Cations at K <sup>+</sup> -Binding Site. <i>Annals of the New York Academy of Sciences</i> , 2007, 1099, 166-170.	3.8	4
60	Postnatal maturation of glutamate clearance and release kinetics at the rat and mouse calyx of Held synapses. <i>Synapse</i> , 2021, 75, e22215.	1.2	4
61	Ca <sup>2+</sup> -dependent membrane currents in vascular smooth muscle cells of the rabbit. <i>Life Sciences</i> , 2001, 69, 2451-2466.	4.3	3
62	Calbindin regulates Kv4.1 trafficking and excitability in dentate granule cells via CaMKII-dependent phosphorylation. <i>Experimental and Molecular Medicine</i> , 2021, 53, 1134-1147.	7.7	2