

Stefan Trapp

List of Publications by Year in descending order

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65
papers

5,011
citations

101543

36
h-index

102487

66
g-index

69
all docs

69
docs citations

69
times ranked

4286
citing authors

#	ARTICLE	IF	CITATIONS
1	Truncation of Kir6.2 produces ATP-sensitive K ⁺ channels in the absence of the sulphonylurea receptor. <i>Nature</i> , 1997, 387, 179-183.	27.8	723
2	Identification and Characterization of GLP-1 Receptor-expressing Cells Using a New Transgenic Mouse Model. <i>Diabetes</i> , 2014, 63, 1224-1233.	0.6	345
3	Distribution and characterisation of Glucagon-like peptide-1 receptor expressing cells in the mouse brain. <i>Molecular Metabolism</i> , 2015, 4, 718-731.	6.5	323
4	Molecular determinants of KATP channel inhibition by ATP. <i>EMBO Journal</i> , 1998, 17, 3290-3296.	7.8	208
5	Cardioprotection evoked by remote ischaemic preconditioning is critically dependent on the activity of vagal pre-ganglionic neurones. <i>Cardiovascular Research</i> , 2012, 95, 487-494.	3.8	187
6	Molecular Analysis of ATP-sensitive K Channel Gating and Implications for Channel Inhibition by ATP. <i>Journal of General Physiology</i> , 1998, 112, 333-349.	1.9	168
7	Preproglucagon neurons project widely to autonomic control areas in the mouse brain. <i>Neuroscience</i> , 2011, 180, 111-121.	2.3	159
8	Essential Role of Phox2b-Expressing Ventrolateral Brainstem Neurons in the Chemosensory Control of Inspiration and Expiration. <i>Journal of Neuroscience</i> , 2010, 30, 12466-12473.	3.6	136
9	Leptin Directly Depolarizes Preproglucagon Neurons in the Nucleus Tractus Solitarius. <i>Diabetes</i> , 2010, 59, 1890-1898.	0.6	127
10	A Role for TASK-1 (KCNK3) Channels in the Chemosensory Control of Breathing. <i>Journal of Neuroscience</i> , 2008, 28, 8844-8850.	3.6	124
11	Preproglucagon Neurons in the Nucleus of the Solitary Tract Are the Main Source of Brain GLP-1, Mediate Stress-Induced Hypophagia, and Limit Unusually Large Intakes of Food. <i>Diabetes</i> , 2019, 68, 21-33.	0.6	119
12	Revisiting the Complexity of GLP-1 Action from Sites of Synthesis to Receptor Activation. <i>Endocrine Reviews</i> , 2021, 42, 101-132.	20.1	115
13	Central and peripheral GLP-1 systems independently suppress eating. <i>Nature Metabolism</i> , 2021, 3, 258-273.	11.9	107
14	Optical control of insulin release using a photoswitchable sulfonylurea. <i>Nature Communications</i> , 2014, 5, 5116.	12.8	106
15	Neuronal responses to transient hypoglycaemia in the dorsal vagal complex of the rat brainstem. <i>Journal of Physiology</i> , 2006, 570, 469-484.	2.9	105
16	Super-resolution microscopy compatible fluorescent probes reveal endogenous glucagon-like peptide-1 receptor distribution and dynamics. <i>Nature Communications</i> , 2020, 11, 467.	12.8	88
17	Neuronal Preconditioning by Inhalational Anesthetics. <i>Anesthesiology</i> , 2009, 110, 986-995.	2.5	84
18	Acidosis of hippocampal neurones mediated by a plasmalemmal Ca ²⁺ /H ⁺ pump. <i>NeuroReport</i> , 1996, 7, 2000-2004.	1.2	82

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19	Control of ventricular excitability by neurons of the dorsal motor nucleus of the vagus nerve. <i>Heart Rhythm</i> , 2015, 12, 2285-2293.	0.7	82
20	CCK Stimulation of GLP-1 Neurons Involves $\hat{I}\pm 1$ -Adrenoceptorâ€“Mediated Increase in Glutamatergic Synaptic Inputs. <i>Diabetes</i> , 2011, 60, 2701-2709.	0.6	78
21	The gut hormone glucagon-like peptide-1 produced in brain: is this physiologically relevant?. <i>Current Opinion in Pharmacology</i> , 2013, 13, 964-969.	3.5	77
22	Identification of residues contributing to the ATP binding site of Kir6.2. <i>EMBO Journal</i> , 2003, 22, 2903-2912.	7.8	74
23	KATP channel mediation of anoxiaâ€“induced outward current in rat dorsal vagal neurons in vitro.. <i>Journal of Physiology</i> , 1995, 487, 37-50.	2.9	69
24	PPG neurons of the lower brain stem and their role in brain GLP-1 receptor activation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2015, 309, R795-R804.	1.8	64
25	Cardiac vagal preganglionic neurones: An update. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2016, 199, 24-28.	2.8	64
26	Acidosis of rat dorsal vagal neurons in situ during spontaneous and evoked activity.. <i>Journal of Physiology</i> , 1996, 496, 695-710.	2.9	63
27	Activation and inhibition of K-ATP currents by guanine nucleotides is mediated by different channel subunits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 8872-8877.	7.1	60
28	Vagal determinants of exercise capacity. <i>Nature Communications</i> , 2017, 8, 15097.	12.8	55
29	Noble Gas Xenon Is a Novel Adenosine Triphosphate-sensitive Potassium Channel Opener. <i>Anesthesiology</i> , 2010, 112, 623-630.	2.5	55
30	Preproglucagon (PPG) neurons innervate neurochemically identified autonomic neurons in the mouse brainstem. <i>Neuroscience</i> , 2013, 229, 130-143.	2.3	52
31	Brain GLPâ€“1 and the regulation of food intake: GLPâ€“1 action in the brain and its implications for GLPâ€“1 receptor agonists in obesity treatment. <i>British Journal of Pharmacology</i> , 2022, 179, 557-570.	5.4	46
32	The incretin hormone glucagonâ€“like peptide 1 increases mitral cell excitability by decreasing conductance of a voltageâ€“dependent potassium channel. <i>Journal of Physiology</i> , 2016, 594, 2607-2628.	2.9	43
33	The role of the autonomic nervous system in acute surgical pain processing - what do we know?. <i>Anaesthesia</i> , 2011, 66, 541-544.	3.8	41
34	Respiratory responses to hypercapnia and hypoxia in mice with genetic ablation of Kir5.1 (<i><i>Kcnj16</i></i>). <i>Experimental Physiology</i> , 2011, 96, 451-459.	2.0	41
35	Functional Analysis of a Mutant Sulfonylurea Receptor, SUR1-R1420C, That Is Responsible for Persistent Hyperinsulinemic Hypoglycemia of Infancy. <i>Journal of Biological Chemistry</i> , 2000, 275, 41184-41191.	3.4	40
36	Limited impact on glucose homeostasis of leptin receptor deletion from insulin- or proglucagon-expressing cells. <i>Molecular Metabolism</i> , 2015, 4, 619-630.	6.5	40

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37	GLP-1 action in the mouse bed nucleus of the stria terminalis. <i>Neuropharmacology</i> , 2018, 131, 83-95.	4.1	39
38	Altered functional properties of KATPchannel conferred by a novel splice variant of SUR1. <i>Journal of Physiology</i> , 1999, 521, 337-350.	2.9	38
39	Dominant Negative Effects of a Non-conducting TREK1 Splice Variant Expressed in Brain*. <i>Journal of Biological Chemistry</i> , 2010, 285, 29295-29304.	3.4	37
40	Endogenous GLP-1 in lateral septum promotes satiety and suppresses motivation for food in mice. <i>Physiology and Behavior</i> , 2019, 206, 191-199.	2.1	37
41	Mechanism of ATP-sensitive K Channel Inhibition by Sulfhydryl Modification. <i>Journal of General Physiology</i> , 1998, 112, 325-332.	1.9	35
42	The physiological role of the brain GLP-1 system in stress. <i>Cogent Biology</i> , 2016, 2, 1229086.	1.7	35
43	Ischemia But Not Anoxia Evokes Vesicular and Ca ²⁺ -Independent Glutamate Release In the Dorsal Vagal Complex In Vitro. <i>Journal of Neurophysiology</i> , 2000, 83, 2905-2915.	1.8	33
44	GABA- and Glycine-Mediated Fall of Intracellular pH in Rat Medullary Neurons In Situ. <i>Journal of Neurophysiology</i> , 1997, 77, 1844-1852.	1.8	32
45	Glucagon-like peptide-1 (GLP-1) receptor activation dilates cerebral arterioles, increases cerebral blood flow, and mediates remote (pre)conditioning neuroprotection against ischaemic stroke. <i>Basic Research in Cardiology</i> , 2021, 116, 32.	5.9	32
46	Ionic currents underlying the response of rat dorsal vagal neurones to hypoglycaemia and chemical anoxia. <i>Journal of Physiology</i> , 2007, 579, 691-702.	2.9	28
47	Glucagon-like peptide 1 and the brain: Central actionsâ€“central sources?. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2011, 161, 14-19.	2.8	28
48	Spinally projecting preproglucagon axons preferentially innervate sympathetic preganglionic neurons. <i>Neuroscience</i> , 2015, 284, 872-887.	2.3	27
49	GLP-1 neurons form a local synaptic circuit within the rodent nucleus of the solitary tract. <i>Journal of Comparative Neurology</i> , 2018, 526, 2149-2164.	1.6	27
50	TASK-like K ⁺ channels mediate effects of 5-HT and extracellular pH in rat dorsal vagal neurones in vitro. <i>Journal of Physiology</i> , 2005, 568, 145-154.	2.9	24
51	A unique olfactory bulb microcircuit driven by neurons expressing the precursor to glucagon-like peptide 1. <i>Scientific Reports</i> , 2019, 9, 15542.	3.3	24
52	Spontaneous activation of KATP current in rat dorsal vagal neurones. <i>NeuroReport</i> , 1994, 5, 1285-1288.	1.2	23
53	Serotonergic modulation of the activity of GLP-1 producing neurons in the nucleus of the solitary tract in mouse. <i>Molecular Metabolism</i> , 2017, 6, 909-921.	6.5	22
54	Preproglucagon neurons in the hindbrain have IL-6 receptor- β and show Ca ²⁺ influx in response to IL-6. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 311, R115-R123.	1.8	21

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55	PPG neurons in the nucleus of the solitary tract modulate heart rate but do not mediate GLP-1 receptor agonist-induced tachycardia in mice. <i>Molecular Metabolism</i> , 2020, 39, 101024.	6.5	20
56	Pyridine nucleotide regulation of the K ATP channel Kir6.2/SUR1 expressed in <i>Xenopus</i> oocytes. <i>Journal of Physiology</i> , 2003, 550, 357-363.	2.9	15
57	Autonomic Nervous System In Vitro: Studying Tonically Active Neurons Controlling Vagal Outflow in Rodent Brainstem Slices. <i>NeuroMethods</i> , 2012, , 1-59.	0.3	15
58	Characterization of two novel forms of the rat sulphonylurea receptor SUR1A2 and SUR1B ¹ 31. <i>British Journal of Pharmacology</i> , 2002, 137, 98-106.	5.4	13
59	The Peutz-Jeghers kinase LKB1 suppresses polyp growth from intestinal cells of a proglucagon-expressing lineage. <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 1275-86.	2.4	10
60	Direct interaction of Na-azide with the KATP channel. <i>British Journal of Pharmacology</i> , 2000, 131, 1105-1112.	5.4	8
61	Inhibition of recombinant KATP channels by the antidiabetic agents midaglizole, LY397364 and LY389382. <i>European Journal of Pharmacology</i> , 2002, 452, 11-19.	3.5	8
62	New developments in the prospects for GLP-1 therapy. <i>British Journal of Pharmacology</i> , 2022, 179, 489-491.	5.4	7
63	A Metabolic Sensor in Action: News From the ATP-Sensitive K ⁺ -Channel. <i>Physiology</i> , 1997, 12, 255-263.	3.1	6
64	Glucagon-Like Peptide-1-, but not Growth and Differentiation Factor 15-, Receptor Activation Increases the Number of Interleukin-6-Expressing Cells in the External Lateral Parabrachial Nucleus. <i>Neuroendocrinology</i> , 2019, 109, 310-321.	2.5	5
65	New horizons for future research – Critical issues to consider for maximizing research excellence and impact. <i>Molecular Metabolism</i> , 2018, 14, 53-59.	6.5	3