

# Takahiro Iwamoto

## List of Publications by Year in descending order

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53  
papers

2,144  
citations

331670

21  
h-index

243625

44  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1937  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Isothiourea Derivative Selectively Inhibits the Reverse Mode of Na <sup>+</sup> /Ca <sup>2+</sup> Exchange in Cells Expressing NCX1. <i>Journal of Biological Chemistry</i> , 1996, 271, 22391-22397.	3.4	459
2	Salt-sensitive hypertension is triggered by Ca <sup>2+</sup> entry via Na <sup>+</sup> /Ca <sup>2+</sup> exchanger type-1 in vascular smooth muscle. <i>Nature Medicine</i> , 2004, 10, 1193-1199.	30.7	252
3	Targeted Disruption of Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger Gene Leads to Cardiomyocyte Apoptosis and Defects in Heartbeat. <i>Journal of Biological Chemistry</i> , 2000, 275, 36991-36998.	3.4	183
4	Differential inhibition of Na <sup>+</sup> /Ca <sup>2+</sup> exchanger isoforms by divalent cations and isothiourea derivative. <i>American Journal of Physiology - Cell Physiology</i> , 1998, 275, C423-C430.	4.6	150
5	Molecular Determinants of Na <sup>+</sup> /Ca <sup>2+</sup> Exchange (NCX1) Inhibition by SEA0400. <i>Journal of Biological Chemistry</i> , 2004, 279, 7544-7553.	3.4	108
6	Protein Kinase C-Dependent Regulation of Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger Isoforms NCX1 and NCX3 Does Not Require Their Direct Phosphorylation. <i>Biochemistry</i> , 1998, 37, 17230-17238.	2.5	107
7	The Exchanger Inhibitory Peptide Region-Dependent Inhibition of Na <sup>+</sup> /Ca <sup>2+</sup> Exchange by SN-6 [2-[4-(4-Nitrobenzyloxy)benzyl]thiazolidine-4-carboxylic Acid Ethyl Ester], a Novel Benzyloxyphenyl Derivative. <i>Molecular Pharmacology</i> , 2004, 66, 45-55.	2.3	103
8	Forefront of Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger Studies: Molecular Pharmacology of Na <sup>+</sup> /Ca <sup>2+</sup> Exchange Inhibitors. <i>Journal of Pharmacological Sciences</i> , 2004, 96, 27-32.	2.5	97
9	Na <sup>+</sup> /Ca <sup>2+</sup> Exchange Inhibitors: A New Class of Calcium Regulators. <i>Cardiovascular &amp; Hematological Disorders Drug Targets</i> , 2007, 7, 188-198.	0.7	76
10	A subset of cerebrovascular pericytes originates from mature macrophages in the very early phase of vascular development in CNS. <i>Scientific Reports</i> , 2017, 7, 3855.	3.3	73
11	Attenuation of Ischemia/Reperfusion-Induced Renal Injury in Mice Deficient in Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2003, 304, 284-293.	2.5	59
12	YM-244769, a Novel Na <sup>+</sup> /Ca <sup>2+</sup> Exchange Inhibitor That Preferentially Inhibits NCX3, Efficiently Protects against Hypoxia/Reoxygenation-Induced SH-SY5Y Neuronal Cell Damage. <i>Molecular Pharmacology</i> , 2006, 70, 2075-2083.	2.3	44
13	Development and application of Na <sup>+</sup> /Ca <sup>2+</sup> exchange inhibitors. <i>Molecular and Cellular Biochemistry</i> , 2004, 259, 157-161.	3.1	39
14	Na <sup>+</sup> /Ca <sup>2+</sup> Exchange as a Drug Target—Insights from Molecular Pharmacology and Genetic Engineering. <i>Annals of the New York Academy of Sciences</i> , 2007, 1099, 516-528.	3.8	31
15	A novel and selective Na <sup>+</sup> /Ca <sup>2+</sup> exchange inhibitor, SEA0400, improves ischemia/reperfusion-induced renal injury. <i>European Journal of Pharmacology</i> , 2003, 478, 187-198.	3.5	30
16	High sodium augments angiotensin II-induced vascular smooth muscle cell proliferation through the ERK 1/2-dependent pathway. <i>Hypertension Research</i> , 2014, 37, 13-18.	2.7	28
17	Vascular Na <sup>+</sup> /Ca <sup>2+</sup> exchanger: implications for the pathogenesis and therapy of salt-dependent hypertension. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R536-R545.	1.8	27
18	Salt-Sensitive Hypertension, Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger, and Vascular Smooth Muscle. <i>Trends in Cardiovascular Medicine</i> , 2005, 15, 273-277.	4.9	25

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19	Preferential involvement of Na <sup>+</sup> /Ca <sup>2+</sup> exchanger type-1 in the brain damage caused by transient focal cerebral ischemia in mice. <i>Biochemical and Biophysical Research Communications</i> , 2012, 429, 186-190.	2.1	24
20	New Molecular Mechanisms for Cardiovascular Disease: Cardiac Hypertrophy and Cell-Volume Regulation. <i>Journal of Pharmacological Sciences</i> , 2011, 116, 343-349.	2.5	23
21	Reduced expression of Na <sup>+</sup> /Ca <sup>2+</sup> exchangers is associated with cognitive deficits seen in Alzheimer's disease model mice. <i>Neuropharmacology</i> , 2018, 131, 291-303.	4.1	23
22	Sodium-calcium exchange inhibitors: therapeutic potential in cardiovascular diseases. <i>Future Cardiology</i> , 2005, 1, 519-529.	1.2	22
23	Genetic knockout and pharmacologic inhibition of NCX2 cause natriuresis and hypercalciuria. <i>Biochemical and Biophysical Research Communications</i> , 2015, 456, 670-675.	2.1	17
24	Na <sup>+</sup> /Ca <sup>2+</sup> exchanger mediates cold Ca <sup>2+</sup> signaling conserved for temperature-compensated circadian rhythms. <i>Science Advances</i> , 2021, 7, .	10.3	17
25	Topics on the Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger: Role of Vascular NCX1 in Salt-Dependent Hypertension. <i>Journal of Pharmacological Sciences</i> , 2006, 102, 32-36.	2.5	16
26	Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger 1/2 Double-Heterozygote Knockout Mice Display Increased Nitric Oxide Component and Altered Colonic Motility. <i>Journal of Pharmacological Sciences</i> , 2013, 123, 235-245.	2.5	13
27	Reduced CaM Kinase II and CaM Kinase IV Activities Underlie Cognitive Deficits in NCKX2 Heterozygous Mice. <i>Molecular Neurobiology</i> , 2017, 55, 3889-3900.	4.0	13
28	Na <sup>+</sup> /Ca <sup>2+</sup> exchanger-deficient mice have disorganized myofibrils and swollen mitochondria in cardiomyocytes. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2003, 135, 9-15.	1.6	11
29	Overexpression of Na <sup>+</sup> /Ca <sup>2+</sup> exchanger 1 display enhanced relaxation in the gastric fundus. <i>Journal of Pharmacological Sciences</i> , 2016, 132, 181-186.	2.5	10
30	Roles of Na <sup>+</sup> /Ca <sup>2+</sup> exchanger isoforms NCX1 and NCX2 in motility in mouse ileum. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2016, 389, 1081-1090.	3.0	10
31	Conditional knockout of smooth muscle sodium calcium exchanger type-1 lowers blood pressure and attenuates Angiotensin II-salt hypertension. <i>Physiological Reports</i> , 2015, 3, e12273.	1.7	8
32	Nicorandil stimulates a Na <sup>+</sup> /Ca <sup>2+</sup> exchanger by activating guanylate cyclase in guinea pig cardiac myocytes. <i>Pflugers Archiv European Journal of Physiology</i> , 2016, 468, 693-703.	2.8	8
33	Sodium-calcium exchanger 1 is the key molecule for urinary potassium excretion against acute hyperkalemia. <i>PLoS ONE</i> , 2020, 15, e0235360.	2.5	6
34	Inhibitory effect of YM-244769, a novel Na <sup>+</sup> /Ca <sup>2+</sup> exchanger inhibitor on Na <sup>+</sup> /Ca <sup>2+</sup> exchange current in guinea pig cardiac ventricular myocytes. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2016, 389, 1205-1214.	3.0	5
35	Endogenous Hydrogen Sulfide Contributes to Tone Generation in Porcine Lower Esophageal Sphincter Via Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2018, 5, 209-221.	4.5	5
36	Na <sup>+</sup> /Ca <sup>2+</sup> exchanger contributes to stool transport in mice with experimental diarrhea. <i>Journal of Veterinary Medical Science</i> , 2017, 79, 403-411.	0.9	5

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37	Acceptance of Murine Islet Allografts Without Immunosuppression in Inguinal Subcutaneous White Adipose Tissue Pretreated With bFGF. <i>Diabetes</i> , 2022, 71, 1721-1734.	0.6	4
38	Endothelin-1 Aggravates Hypoxia/Reoxygenation-induced Injury in Renal Epithelial Cells through the Activation of a Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger. <i>Journal of Cardiovascular Pharmacology</i> , 2004, 44, S462-S466.	1.9	3
39	Effects of Krill-derived phospholipid-enriched n <sup>ω</sup> -3 fatty acids on Ca <sup>2+</sup> regulation system in cerebral arteries from ovariectomized rats. <i>Life Sciences</i> , 2014, 100, 18-24.	4.3	3
40	Aberrant Amygdala-Dependent Cued Fear Memory in Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger 1 Heterozygous Mice. <i>Molecular Neurobiology</i> , 2019, 56, 4381-4394.	4.0	1
41	Genetic knockout and pharmacologic inhibition of NCX1 attenuate hypoxia-induced pulmonary arterial hypertension. <i>Biochemical and Biophysical Research Communications</i> , 2020, 529, 793-798.	2.1	1
42	Lymphangiogenesis and angiogenesis rescue murine ischemic hindlimb via transient receptor potential vanilloid 4. <i>Journal of Pharmacological Sciences</i> , 2021, 146, 244-248.	2.5	1
43	New Molecular Mechanisms for Cardiovascular Disease: Preface. <i>Journal of Pharmacological Sciences</i> , 2011, 116, 321-322.	2.5	0
44	1. Na <sup>+</sup> /Ca <sup>2+</sup> Exchangers: Therapeutic Target for Cardiovascular Diseases. <i>Japanese Journal of Clinical Pharmacology and Therapeutics</i> , 2015, 46, 30-32.	0.1	0
45	&lt;b>Preface&lt;/b>. <i>Japanese Journal of Clinical Pharmacology and Therapeutics</i> , 2015, 46, 29-29.	0.1	0
46	Conditional knockout of smooth muscle $\alpha$ -specific Na/Ca exchanger type $\alpha$ 1 causes striking impairment of NO/cGMP-mediated vasodilation. <i>FASEB Journal</i> , 2015, 29, 1052.6.	0.5	0
47	Functional analysis of vascular Na <sup>+</sup> /Ca <sup>2+</sup> exchangers using genetically engineered mice. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO4-2-41.	0.0	0
48	Therapeutic efficacy of TNF- $\alpha$ neutralizing antibody in Complex Regional Pain Syndrome (CRPS) model mice. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO3-2-9.	0.0	0
49	Vascular smooth muscle NCX1 is involved in the pathogenesis of pulmonary arterial hypertension. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO3-3-37.	0.0	0
50	Title is missing!. , 2020, 15, e0235360.		0
51	Title is missing!. , 2020, 15, e0235360.		0
52	Title is missing!. , 2020, 15, e0235360.		0
53	Title is missing!. , 2020, 15, e0235360.		0