Sachiko Tsukita

List of Publications by Year
in descending order

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74 papers	8,336 citations	61984 43 h-index	85541 71 g-index
76 all docs	76 docs citations	76 times ranked	8854 citing authors

#	Article	IF	Citations
1	Rho-Kinase Phosphorylates COOH-terminal Threonines of Ezrin/Radixin/Moesin (ERM) Proteins and Regulates Their Head-to-Tail Association. Journal of Cell Biology, 1998, 140, 647-657.	5.2	788
2	ZO-1 and ZO-2 Independently Determine Where Claudins Are Polymerized in Tight-Junction Strand Formation. Cell, 2006, 126, 741-754.	28.9	685
3	Tricellulin constitutes a novel barrier at tricellular contacts of epithelial cells. Journal of Cell Biology, 2005, 171, 939-945.	5.2	664
4	Predicted expansion of the claudin multigene family. FEBS Letters, 2011, 585, 606-612.	2.8	432
5	Crystal Structure of a Claudin Provides Insight into the Architecture of Tight Junctions. Science, 2014, 344, 304-307.	12.6	302
6	ERM proteins: head-to-tail regulation of actin-plasma membrane interaction. Trends in Biochemical Sciences, 1997, 22, 53-58.	7.5	292
7	Odf2-deficient mother centrioles lack distal/subdistal appendages and the ability to generate primary cilia. Nature Cell Biology, 2005, 7, 517-524.	10.3	267
8	The Claudins: From Tight Junctions to Biological Systems. Trends in Biochemical Sciences, 2019, 44, 141-152.	7.5	265
9	Deficiency of Zonula Occludens-1 Causes Embryonic Lethal Phenotype Associated with Defected Yolk Sac Angiogenesis and Apoptosis of Embryonic Cells. Molecular Biology of the Cell, 2008, 19, 2465-2475.	2.1	244
10	Loss of Claudin-15, but Not Claudin-2, Causes Na+ Deficiency and Glucose Malabsorption in Mouse Small Intestine. Gastroenterology, 2011, 140, 913-923.	1.3	204
11	Directed Induction of Functional Multi-ciliated Cells in Proximal Airway Epithelial Spheroids from Human Pluripotent Stem Cells. Stem Cell Reports, 2016, 6, 18-25.	4.8	201
12	Coordinated Ciliary Beating Requires Odf2-Mediated Polarization of Basal Bodies via Basal Feet. Cell, 2012, 148, 189-200.	28.9	189
13	Megaintestine in Claudin-15â€“Deficient Mice. Gastroenterology, 2008, 134, 523-534.e3.	1.3	182
14	IL-22ÂUpregulates Epithelial Claudin-2 to Drive Diarrhea and Enteric Pathogen Clearance. Cell Host and Microbe, 2017, 21, 671-681.e4.	11.0	178
15	Structural insight into tight junction disassembly by Clostridium perfringens enterotoxin. Science, 2015, 347, 775-778.	12.6	171
16	Outer Dense Fiber 2 Is a Widespread Centrosome Scaffold Component Preferentially Associated with Mother Centrioles: Its Identification from Isolated Centrosomes. Molecular Biology of the Cell, 2001, 12, 1687-1697.	2.1	164
17	Model for the Architecture of Claudin-Based Paracellular Ion Channels through Tight Junctions. Journal of Molecular Biology, 2015, 427, 291-297.	4.2	158
18	ERM (Ezrin/Radixin/Moesin)-based Molecular Mechanism of Microvillar Breakdown at an Early Stage of Apoptosis. Journal of Cell Biology, 1997, 139, 749-758.	5.2	154

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19	Loss of Claudins 2 and 15 From Mice Causes Defects in Paracellular Na+ Flow and Nutrient Transport in Gut and Leads to Death from Malnutrition. Gastroenterology, 2013, 144, 369-380.	1.3	153
20	Requirement of ZO-1 for the formation of belt-like adherens junctions during epithelial cell polarization. Journal of Cell Biology, 2007, 176, 779-786.	5.2	151
21	Intestinal deletion ofClaudin-7enhances paracellular organic solute flux and initiates colonic inflammation in mice. Gut, 2015, 64, 1529-1538.	12.1	148
22	EpCAM contributes to formation of functional tight junction in the intestinal epithelium by recruiting claudin proteins. Developmental Biology, 2012, 371, 136-145.	2.0	115
23	Achlorhydria by ezrin knockdown. Journal of Cell Biology, 2005, 169, 21-28.	5.2	106
24	Radixin regulates synaptic GABAA receptor density and is essential for reversal learning and short-term memory. Nature Communications, 2015, 6, 6872.	12.8	106
25	Dose-dependent role of claudin-1 in vivo in orchestrating features of atopic dermatitis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E4061-8.	7.1	104
26	IQGAP3 regulates cell proliferation through the Ras/ERK signalling cascade. Nature Cell Biology, 2008, 10, 971-978.	10.3	99
27	Deficiency of Claudin-18 Causes Paracellular H+ Leakage, Up-regulation of Interleukin-1Î², and Atrophic Gastritis in Mice. Gastroenterology, 2012, 142, 292-304.	1.3	92
28	Roles of ZOâ€1 and ZOâ€2 in Establishment of the Beltâ€like Adherens and Tight Junctions with Paracellular Permselective Barrier Function. Annals of the New York Academy of Sciences, 2009, 1165, 44-52.	3.8	91
29	The association of microtubules with tight junctions is promoted by cingulin phosphorylation by AMPK. Journal of Cell Biology, 2013, 203, 605-614.	5.2	91
30	Two appendages homologous between basal bodies and centrioles are formed using distinct Odf2 domains. Journal of Cell Biology, 2013, 203, 417-425.	5.2	80
31	Paracellular barrier and channel functions of TJ claudins in organizing biological systems: Advances in the field of barriology revealed in knockout mice. Seminars in Cell and Developmental Biology, 2014, 36, 177-185.	5.0	78
32	Claudin 2 Deficiency Reduces Bile Flow and Increases Susceptibility to Cholesterol Gallstone Disease in Mice. Gastroenterology, 2014, 147, 1134-1145.e10.	1.3	76
33	Inactivation of paracellular cation-selective claudin-2 channels attenuates immune-mediated experimental colitis in mice. Journal of Clinical Investigation, 2020, 130, 5197-5208.	8.2	76
34	Rho GTP exchange factor ARHGEF11 regulates the integrity of epithelial junctions by connecting ZO-1 and RhoA-Myosin II signaling. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9905-9910.	7.1	74
35	ZO-1- and ZO-2-Dependent Integration of Myosin-2 to Epithelial Zonula Adherens. Molecular Biology of the Cell, 2008, 19, 3801-3811.	2.1	71
36	Interleukin 22 Expands Transit-Amplifying Cells While Depleting Lgr5+ Stem Cells via Inhibition of Wnt and Notch Signaling. Cellular and Molecular Gastroenterology and Hepatology, 2019, 7, 255-274.	4.5	67

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37	Multiciliated cell basal bodies align in stereotypical patterns coordinated by the apical cytoskeleton. Journal of Cell Biology, 2016, 214, 571-586.	5.2	60
38	Role of claudin speciesâ€“specific dynamics in reconstitution and remodeling of the zonula occludens. Molecular Biology of the Cell, 2011, 22, 1495-1504.	2.1	58
39	Regulation of intestinal homeostasis by the ulcerative colitis-associated gene RNF186. Mucosal Immunology, 2017, 10, 446-459.	6.0	55
40	Morphologic determinant of tight junctions revealed by claudin-3 structures. Nature Communications, 2019, 10, 816.	12.8	55
41	Deletion of Tricellulin Causes Progressive Hearing Loss Associated with Degeneration of Cochlear Hair Cells. Scientific Reports, 2015, 5, 18402.	3.3	51
42	Apical cytoskeletons and junctional complexes as a combined system in epithelial cell sheets. Annals of the New York Academy of Sciences, 2017, 1405, 32-43.	3.8	49
43	Sentan: A Novel Specific Component of the Apical Structure of Vertebrate Motile Cilia. Molecular Biology of the Cell, 2008, 19, 5338-5346.	2.1	48
44	A novel autoantibody against moesin in the serum of patients with MPO-ANCA-associated vasculitis. Nephrology Dialysis Transplantation, 2014, 29, 1168-1177.	0.7	47
45	Moesin and myosin phosphatase confine neutrophil orientation in a chemotactic gradient. Journal of Experimental Medicine, 2015, 212, 267-280.	8.5	47
46	Three-dimensional Organization of Layered Apical Cytoskeletal Networks Associated with Mouse Airway Tissue Development. Scientific Reports, 2017, 7, 43783.	3.3	40
47	Claudin-3 Loss Causes Leakage of Sweat from the Sweat Gland to Contribute to the Pathogenesis of Atopic Dermatitis. Journal of Investigative Dermatology, 2018, 138, 1279-1287.	0.7	39
48	Multicellular modeling of ciliopathy by combining iPS cells and microfluidic airway-on-a-chip technology. Science Translational Medicine, 2021, 13, .	12.4	36
49	Claudin-3 regulates bile canalicular paracellular barrier and cholesterol gallstone core formation in mice. Journal of Hepatology, 2018, 69, 1308-1316.	3.7	34
50	Optimized Proteomic Analysis on Gels of Cellâ^'Cell Adhering Junctional Membrane Proteins. Biochemistry, 2008, 47, 5378-5386.	2.5	31
51	Claudin-21 Has a Paracellular Channel Role at Tight Junctions. Molecular and Cellular Biology, 2016, 36, 954-964.	2.3	30
52	Deficiency of Stomach-Type Claudin-18 in Mice Induces Gastric Tumor Formation Independent of HÂpylori Infection. Cellular and Molecular Gastroenterology and Hepatology, 2019, 8, 119-142.	4.5	30
53	Involvement of IQGAP3, a regulator of Ras/ERKâ€related cascade, in hepatocyte proliferation in mouse liver regeneration and development. Journal of Cellular Physiology, 2009, 220, 621-631.	4.1	29
54	Odf2 haploinsufficiency causes a new type of decapitated and decaudated spermatozoa, Odf2-DDS, in mice. Scientific Reports, 2019, 9, 14249.	3.3	28

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55	Cep128 associates with Odf2 to form the subdistal appendage of the centriole. Genes To Cells, 2019, 24, 231-243.	1.2	24
56	Siteâ€specific distribution of claudinâ€based paracellular channels with roles in biological fluid flow and metabolism. Annals of the New York Academy of Sciences, 2017, 1405, 44-52.	3.8	23
57	AMPK-dependent phosphorylation of cingulin reversibly regulates its binding to actin filaments and microtubules. Scientific Reports, 2018, 8, 15550.	3.3	23
58	Claudinâ€based paracellular proton barrier in the stomach. Annals of the New York Academy of Sciences, 2012, 1258, 108-114.	3.8	21
59	Ezrin Mediates Neuritogenesis via Down-Regulation of RhoA Activity in Cultured Cortical Neurons. PLoS ONE, 2014, 9, e105435.	2.5	20
60	The four-transmembrane protein IP39 of Euglena forms strands by a trimeric unit repeat. Nature Communications, 2013, 4, 1766.	12.8	19
61	Reciprocal Association between the Apical Junctional Complex and AMPK: A Promising Therapeutic Target for Epithelial/Endothelial Barrier Function?. International Journal of Molecular Sciences, 2019, 20, 6012.	4.1	18
62	Fetal Growth Retardation and Lack of Hypotaurine in Ezrin Knockout Mice. PLoS ONE, 2014, 9, e105423.	2.5	15
63	A microtubuleâ€LUZP1 association around tight junction promotes epithelial cell apical constriction. EMBO Journal, 2021, 40, e104712.	7.8	14
64	Vinculin is critical for the robustness of the epithelial cell sheet paracellular barrier for ions. Life Science Alliance, 2019, 2, e201900414.	2.8	13
65	Time- and dose-dependent claudin contribution to biological functions: Lessons from claudin-1 in skin. Tissue Barriers, 2017, 5, e1336194.	3.2	12
66	Planar cell polarity induces local microtubule bundling for coordinated ciliary beating. Journal of Cell Biology, 2021, 220, .	5.2	11
67	R40.76 binds to the Î± domain of ZO-1: role of ZO-1 (Î±+) in epithelial differentiation and mechano-sensing. Tissue Barriers, 2019, 7, e1653748.	3.2	8
68	Deficiency of lung-specific claudin-18 leads to aggravated infection with Cryptococcus deneoformans through dysregulation of the microenvironment in lungs. Scientific Reports, 2021, 11, 21110.	3.3	8
69	Daple deficiency causes hearing loss in adult mice by inducing defects in cochlear stereocilia and apical microtubules. Scientific Reports, 2021, 11, 20224.	3.3	5
70	Uniaxial stretching device for studying maturity-dependent morphological response of epithelial cell monolayers to tensile strain. Journal of Industrial and Engineering Chemistry, 2021, 99, 282-291.	5.8	2
71	Apical Cytoskeletons Help Define the Barrier Functions of Epithelial Cell Sheets in Biological Systems. , 2020, , 31-38.		1
72	Connecting Cells | Tight Junctions. , 2021, , 143-146.		0

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73	Water-Based Biological Homeostasis in Multiple Fluid-Filled Compartments in the Higher Organisms. , 2010, , 247-258.		0
74	â€œBarriologyâ€•in Tight Junction. Membrane, 2013, 38, 165-173.	0.0	0