Takuya Suzuki

List of Publications by Year
in descending order

69 papers	4,920 citations	136885 32 h-index	98753 67 g-index
69 all docs	69 docs citations	69 times ranked	6470 citing authors

#	Article	IF	Citations
1	Regulation of intestinal epithelial permeability by tight junctions. Cellular and Molecular Life Sciences, 2013, 70, 631-659.	2.4	969
2	Interleukin-6 (IL-6) Regulates Claudin-2 Expression and Tight Junction Permeability in Intestinal Epithelium. Journal of Biological Chemistry, 2011, 286, 31263-31271.	1.6	417
3	Physiological concentrations of short-chain fatty acids immediately suppress colonic epithelial permeability. British Journal of Nutrition, 2008, 100, 297-305.	1.2	288
4	Quercetin Enhances Intestinal Barrier Function through the Assembly of Zonnula Occludens-2, Occludin, and Claudin-1 and the Expression of Claudin-4 in Caco-2 Cells. Journal of Nutrition, 2009, 139, 965-974.	1.3	238
5	PKCÎ· regulates occludin phosphorylation and epithelial tight junction integrity. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 61-66.	3.3	203
6	A Gut Microbial Metabolite of Linoleic Acid, 10-Hydroxy-cis-12-octadecenoic Acid, Ameliorates Intestinal Epithelial Barrier Impairment Partially via GPR40-MEK-ERK Pathway. Journal of Biological Chemistry, 2015, 290, 2902-2918.	1.6	189
7	Role of flavonoids in intestinal tight junction regulation. Journal of Nutritional Biochemistry, 2011, 22, 401-408.	1.9	186
8	Phosphorylation of Tyr-398 and Tyr-402 in Occludin Prevents Its Interaction with ZO-1 and Destabilizes Its Assembly at the Tight Junctions. Journal of Biological Chemistry, 2009, 284, 1559-1569.	1.6	176
9	Dietary fat and bile juice, but not obesity, are responsible for the increase in small intestinal permeability induced through the suppression of tight junction protein expression in LETO and OLETF rats. Nutrition and Metabolism, 2010, 7, 19.	1.3	158
10	Supplemental Naringenin Prevents Intestinal Barrier Defects and Inflammation in Colitic Mice. Journal of Nutrition, 2013, 143, 827-834.	1.3	125
11	Kaempferol Enhances Intestinal Barrier Function through the Cytoskeletal Association and Expression of Tight Junction Proteins in Caco-2 Cells. Journal of Nutrition, 2011, 141, 87-94.	1.3	110
12	Regulation of the intestinal tight junction by natural polyphenols: A mechanistic perspective. Critical Reviews in Food Science and Nutrition, 2017, 57, 3830-3839.	5.4	96
13	Differential Effects of Flavonoids on Barrier Integrity in Human Intestinal Caco-2 Cells. Journal of Agricultural and Food Chemistry, 2012, 60, 4628-4633.	2.4	91
14	Effects of Difructose Anhydride III on Calcium Absorption in Small and Large Intestines of Rats. Bioscience, Biotechnology and Biochemistry, 1998, 62, 837-841.	0.6	90
15	Highâ€fat Dietâ€induced Intestinal Hyperpermeability is Associated with Increased Bile Acids in the Large Intestine of Mice. Journal of Food Science, 2016, 81, H216-22.	1.5	90
16	Protein kinase CÎ¶ phosphorylates occludin and promotes assembly of epithelial tight junctions. Biochemical Journal, 2011, 437, 289-299.	1.7	86
17	Dietary Fermentable Fiber Reduces Intestinal Barrier Defects and Inflammation in Colitic Mice. Journal of Nutrition, 2016, 146, 1970-1979.	1.3	82
18	Cellular zinc is required for intestinal epithelial barrier maintenance via the regulation of claudin-3 and occludin expression. American Journal of Physiology - Renal Physiology, 2016, 311, G105-G116.	1.6	75

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19	Naringenin enhances intestinal barrier function through the expression and cytoskeletal association of tight junction proteins in Caco-2 cells. Molecular Nutrition and Food Research, 2013, 57, 2019-2028.	1.5	68
20	Role of Phospholipase CÎ³-induced Activation of Protein Kinase CÏµ (PKCÏµ) and PKCÎ²I in Epidermal Growth Factor-mediated Protection of Tight Junctions from Acetaldehyde in Caco-2 Cell Monolayers. Journal of Biological Chemistry, 2008, 283, 3574-3583.	1.6	67
21	Resveratrol Ameliorates Intestinal Barrier Defects and Inflammation in Colitic Mice and Intestinal Cells. Journal of Agricultural and Food Chemistry, 2018, 66, 12666-12674.	2.4	62
22	Supplemental feeding of a gut microbial metabolite of linoleic acid, 10-hydroxy-<i>cis</i>-12-octadecenoic acid, alleviates spontaneous atopic dermatitis and modulates intestinal microbiota in NC/nga mice. International Journal of Food Sciences and Nutrition, 2017, 68, 941-951.	1.3	61
23	Bifidobacterium longum Alleviates Dextran Sulfate Sodium-Induced Colitis by Suppressing IL-17A Response: Involvement of Intestinal Epithelial Costimulatory Molecules. PLoS ONE, 2013, 8, e79735.	1.1	59
24	Dietary polyphenols modulate intestinal barrier defects and inflammation in a murine model of colitis. Journal of Functional Foods, 2013, 5, 949-955.	1.6	58
25	Short-Chain Fatty Acids Suppress Inflammatory Reactions in Caco-2 Cells and Mouse Colons. Journal of Agricultural and Food Chemistry, 2018, 66, 108-117.	2.4	55
26	Contrasting effects of ERK on tight junction integrity in differentiated and under-differentiated Caco-2 cell monolayers. Biochemical Journal, 2011, 433, 51-63.	1.7	51
27	The biological activity of fermented milk produced by Lactobacillus casei ATCC 393 during cold storage. International Dairy Journal, 2019, 91, 1-8.	1.5	48
28	Dietary Fermentable Fibers Attenuate Chronic Kidney Disease in Mice by Protecting the Intestinal Barrier. Journal of Nutrition, 2018, 148, 552-561.	1.3	47
29	Supplemental psyllium fibre regulates the intestinal barrier and inflammation in normal and colitic mice. British Journal of Nutrition, 2017, 118, 661-672.	1.2	36
30	Effects of DFA IV in Rats: Calcium Absorption and Metabolism of DFA IV by Intestinal Microorganisms. Bioscience, Biotechnology and Biochemistry, 1999, 63, 655-661.	0.6	35
31	Difructose anhydride III and sodium caprate activate paracellular transport via different intracellular events in Caco-2 cells. Life Sciences, 2006, 79, 401-410.	2.0	34
32	Supplemental epilactose prevents metabolic disorders through uncoupling protein-1 induction in the skeletal muscle of mice fed high-fat diets. British Journal of Nutrition, 2015, 114, 1774-1783.	1.2	34
33	Fructooligosaccharide augments benefits of quercetin-3-O-Î²-glucoside on insulin sensitivity and plasma total cholesterol with promotion of flavonoid absorption in sucrose-fed rats. European Journal of Nutrition, 2014, 53, 457-468.	1.8	28
34	Lactic acid bacteria-containing chocolate as a practical probiotic product with increased acid tolerance. Biocatalysis and Agricultural Biotechnology, 2015, 4, 773-777.	1.5	27
35	<i>Streptococcus thermophilus</i>ST28 Ameliorates Colitis in Mice Partially by Suppression of Inflammatory Th17 Cells. Journal of Biomedicine and Biotechnology, 2011, 2011, 1-9.	3.0	26
36	Effects of a Chicken Collagen Hydrolysate on the Circulation System in Subjects with Mild Hypertension or High-Normal Blood Pressure. Bioscience, Biotechnology and Biochemistry, 2013, 77, 691-696.	0.6	26

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37	The Nondigestible Disaccharide Epilactose Increases Paracellular Ca Absorption via Rho-Associated Kinase- and Myosin Light Chain Kinase-Dependent Mechanisms in Rat Small Intestines. Journal of Agricultural and Food Chemistry, 2010, 58, 1927-1932.	2.4	24
38	Anti-inflammatory and Intestinal Barrierâ€"protective Activities of Commensal Lactobacilli and Bifidobacteria in Thoroughbreds: Role of Probiotics in Diarrhea Prevention in Neonatal Thoroughbreds. Journal of Equine Science, 2014, 25, 37-43.	0.2	23
39	Ingestion of Epilactose, a Non-digestible Disaccharide, Improves Postgastrectomy Osteopenia and Anemia in Rats through the Promotion of Intestinal Calcium and Iron Absorption. Journal of Agricultural and Food Chemistry, 2010, 58, 10787-10792.	2.4	22
40	Hesperidin inhibits development of atopic dermatitis-like skin lesions in NC/Nga mice by suppressing Th17 activity. Journal of Functional Foods, 2013, 5, 1633-1641.	1.6	22
41	<i>Citrus kawachiensis</i> Peel Powder Reduces Intestinal Barrier Defects and Inflammation in Colitic Mice. Journal of Agricultural and Food Chemistry, 2018, 66, 10991-10999.	2.4	22
42	A novel whey tetrapeptide IPAV reduces interleukin-8 production induced by TNF-Î± in human intestinal Caco-2 cells. Journal of Functional Foods, 2017, 35, 376-383.	1.6	21
43	Resveratrol enhances intestinal barrier function by ameliorating barrier disruption in Caco-2 cell monolayers. Journal of Functional Foods, 2018, 51, 39-46.	1.6	21
44	Various non-digestible saccharides increase intracellular calcium ion concentration in rat small-intestinal enterocytes. British Journal of Nutrition, 2004, 92, 751-755.	1.2	20
45	Repeated exposure to water immersion stress reduces the Muc2 gene level in the rat colon via two distinct mechanisms. Brain, Behavior, and Immunity, 2012, 26, 1061-1065.	2.0	18
46	Quercetin increases claudin-4 expression through multiple transcription factors in intestinal Caco-2 cells. Journal of Functional Foods, 2014, 10, 112-116.	1.6	18
47	Suppression of Th17 response by Streptococcus thermophilus ST28 through induction of IFN-Î³. International Journal of Molecular Medicine, 2011, 28, 817-22.	1.8	16
48	Massive large bowel resection decreases bone strength and magnesium content but not calcium content of the femur in rats. Nutrition, 2001, 17, 397-402.	1.1	15
49	A novel mechanism underlying phytate-mediated biological action-phytate hydrolysates induce intracellular calcium signaling by a GÎ±q protein-coupled receptor and phospholipase C-dependent mechanism in colorectal cancer cells. Molecular Nutrition and Food Research, 2010, 54, 947-955.	1.5	15
50	Modulatory activity of Lactobacillus rhamnosus OLL2838 in a mouse model of intestinal immunopathology. Immunobiology, 2015, 220, 701-710.	0.8	15
51	Guar gum fiber increases suppressor of cytokine signalingâ€1 expression via tollâ€like receptor 2 and dectinâ€1 pathways, regulating inflammatory response in small intestinal epithelial cells. Molecular Nutrition and Food Research, 2017, 61, 1700048.	1.5	14
52	Phosphorylation hotspot in the C-terminal domain of occludin regulates the dynamics of epithelial junctional complexes. Journal of Cell Science, 2018, 131, .	1.2	14
53	Ammonia impairs tight junction barriers by inducing mitochondrial dysfunction in Cacoâ€2 cells. FASEB Journal, 2021, 35, e21854.	0.2	14
54	Development of a Multifunction Set Yogurt Using Rubus suavissimus S. Lee (Chinese Sweet Tea) Extract. Foods, 2020, 9, 1163.	1.9	13

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55	Citrus limon Peel Powder Reduces Intestinal Barrier Defects and Inflammation in a Colitic Murine Experimental Model. Foods, 2021, 10, 240.	1.9	13
56	Lactobacillus pentosus strain S-PT84 improves steatohepatitis by maintaining gut permeability. Journal of Endocrinology, 2020, 247, 169-181.	1.2	13
57	Dietary psyllium fiber increases intestinal heat shock protein 25 expression in mice. Nutrition Research, 2017, 39, 25-33.	1.3	11
58	Exopolysaccharides from Leuconostoc mesenteroides attenuate chronic kidney disease in mice by protecting the intestinal barrier. Journal of Functional Foods, 2019, 52, 276-283.	1.6	10
59	Effect ofD-Alanine in Teichoic Acid from theStreptococcus thermophilusCell Wall on the Barrier-Protection of Intestinal Epithelial Cells. Bioscience, Biotechnology and Biochemistry, 2012, 76, 283-288.	0.6	8
60	Phytate hydrolysate induces circumferential Fâ€actin ring formation at cellâ€“cell contacts by a Rhoâ€associated kinaseâ€dependent mechanism in colorectal cancer HTâ€29 cells. Molecular Nutrition and Food Research, 2010, 54, 1807-1818.	1.5	7
61	A partially degraded product of phytate suppresses the proliferation of HCT116 colorectal cancer cells. Food Chemistry, 2011, 125, 1219-1225.	4.2	7
62	Glycochenodeoxycholic acid promotes proliferation of intestinal epithelia via reduction of cyclic AMP and increase in H2AX phosphorylation after exposure to ^|^gamma;-rays. Biomedical Research, 2012, 33, 159-165.	0.3	7
63	Distinguishing glutamic acid in foodstuffs and monosodium glutamate used as seasoning by stable carbon and nitrogen isotope ratios. Heliyon, 2018, 4, e00800.	1.4	6
64	Hydrogen sulfide suppresses the proliferation of intestinal epithelial cells through cell cycle arrest. Archives of Biochemistry and Biophysics, 2021, 712, 109044.	1.4	6
65	A high-temperature in situ cell with a large solid angle for fluorescence X-ray absorption fine structure measurement. Review of Scientific Instruments, 2015, 86, 034102.	0.6	5
66	Regulation of Intestinal Barrier Function by Dietary Polyphenols. Current Nutrition and Food Science, 2013, 9, 85-92.	0.3	5
67	Fermentable fibers upregulate suppressor of cytokine signaling1 in the colon of mice and intestinal Caco-2 cells through butyrate production. Bioscience, Biotechnology and Biochemistry, 2020, 84, 2337-2346.	0.6	4
68	Role of phospholipase CÎ³-induced activation of protein kinase CÏµ (PKCÏµ) and PKCÎ²I in epidermal growth factor-mediated protection of tight junctions from acetaldehyde in Caco-2 cell monolayers.. Journal of Biological Chemistry, 2012, 287, 6959.	1.6	0
69	Comparative Analyses of Anti-hypertensive Effects of Commercial Collagen Peptides in Spontaneously Hypertensive Rats. Journal of the Japanese Society for Food Science and Technology, 2013, 60, 142-147.	0.1	0