

# Jrg-Dieter Schulzke

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/2369397/jorg-dieter-schulzke-publications-by-year.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

103  
papers

9,882  
citations

45  
h-index

99  
g-index

108  
ext. papers

11,176  
ext. citations

5.4  
avg, IF

5.76  
L-index

#	Paper	IF	Citations
103	Expression of tricellular tight junction proteins and the paracellular macromolecule barrier are recovered in remission of ulcerative colitis. <i>BMC Gastroenterology</i> , <b>2021</b> , 21, 141	3	7
102	The Punicalagin Metabolites Ellagic Acid and Urolithin A Exert Different Strengthening and Anti-Inflammatory Effects on Tight Junction-Mediated Intestinal Barrier Function. <i>Frontiers in Pharmacology</i> , <b>2021</b> , 12, 610164	5.6	7
101	Diarrheal Mechanisms and the Role of Intestinal Barrier Dysfunction in Campylobacter Infections. <i>Current Topics in Microbiology and Immunology</i> , <b>2021</b> , 431, 203-231	3.3	2
100	Resveratrol Alleviates Acute Induced Enterocolitis in a Preclinical Murine Intervention Study. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	5
99	Altered Structural Expression and Enzymatic Activity Parameters in Quiescent Ulcerative Colitis: Are These Potential Normalization Criteria?. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	4
98	Zinc prevents intestinal epithelial barrier dysfunction induced by alpha-hemolysin-producing Escherichia coli 536 infection in porcine colon. <i>Veterinary Microbiology</i> , <b>2020</b> , 243, 108632	3.3	6
97	Impairs Sodium Absorption in Colonic Epithelium via ENaC Dysfunction and Claudin-8 Disruption. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	8
96	Role of the Epithelium in Diseases of the Intestine. <i>Physiology in Health and Disease</i> , <b>2020</b> , 77-109	0.2	
95	Vitamin D in Acute Campylobacteriosis-Results From an Intervention Study Applying a Clinical Induced Enterocolitis Model. <i>Frontiers in Immunology</i> , <b>2019</b> , 10, 2094	8.4	20
94	Curcumin Mitigates Immune-Induced Epithelial Barrier Dysfunction by. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	23
93	Phospholipid effects on SGLT1-mediated glucose transport in rabbit ileum brush border membrane vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2019</b> , 1861, 182985	3.8	0
92	enters gut epithelial cells and impairs intestinal barrier function through cleavage of occludin by serine protease HtrA. <i>Gut Pathogens</i> , <b>2019</b> , 11, 4	5.4	38
91	Tilivalline- and Tilimycin-Independent Effects of on Tight Junction-Mediated Intestinal Barrier Impairment. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	11
90	Tricellulin Effect on Paracellular Water Transport. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	10
89	Epithelial barrier dysfunction as permissive pathomechanism in human intestinal graft-versus-host disease. <i>Bone Marrow Transplantation</i> , <b>2018</b> , 53, 1083-1086	4.4	1
88	Reversible opening of the blood-brain barrier by claudin-5-binding variants of Clostridium perfringens enterotoxinB claudin-binding domain. <i>Biomaterials</i> , <b>2018</b> , 161, 129-143	15.6	28
87	Ion Channels of the Gastrointestinal Epithelial Cells <b>2018</b> , 1363-1404		4

86	Epithelial barrier dysfunction in lymphocytic colitis through cytokine-dependent internalization of claudin-5 and -8. <i>Journal of Gastroenterology</i> , <b>2017</b> , 52, 1090-1100	6.9	21
85	Celiac Disease: Role of the Epithelial Barrier. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2017</b> , 3, 150-162	7.9	81
84	Active and passive involvement of claudins in the pathophysiology of intestinal inflammatory diseases. <i>Pflugers Archiv European Journal of Physiology</i> , <b>2017</b> , 469, 15-26	4.6	40
83	Lactoferrin protects against intestinal inflammation and bacteria-induced barrier dysfunction in vitro. <i>Annals of the New York Academy of Sciences</i> , <b>2017</b> , 1405, 177-188	6.5	37
82	Zinc treatment is efficient against Escherichia coli ßhaemolysin-induced intestinal leakage in mice. <i>Scientific Reports</i> , <b>2017</b> , 7, 45649	4.9	19
81	Myrrh exerts barrier-stabilising and -protective effects in HT-29/B6 and Caco-2 intestinal epithelial cells. <i>International Journal of Colorectal Disease</i> , <b>2017</b> , 32, 623-634	3	10
80	In Colon Epithelia, Clostridium perfringens Enterotoxin Causes Focal Leaks by Targeting Claudins Which are Apically Accessible Due to Tight Junction Derangement. <i>Journal of Infectious Diseases</i> , <b>2017</b> , 217, 147-157	7	26
79	Water channels and barriers formed by claudins. <i>Annals of the New York Academy of Sciences</i> , <b>2017</b> , 1397, 100-109	6.5	40
78	Campylobacter fetus impairs barrier function in HT-29/B6 cells through focal tight junction alterations and leaks. <i>Annals of the New York Academy of Sciences</i> , <b>2017</b> , 1405, 189-201	6.5	8
77	Long-term response to gluten-free diet as evidence for non-celiac wheat sensitivity in one third of patients with diarrhea-dominant and mixed-type irritable bowel syndrome. <i>International Journal of Colorectal Disease</i> , <b>2017</b> , 32, 29-39	3	40
76	Gastrointestinal Tract As Entry Route for Hantavirus Infection. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 1721	5.7	23
75	Zinc strengthens the jejunal barrier by reversibly tightening the paracellular route. <i>American Journal of Physiology - Renal Physiology</i> , <b>2017</b> , 313, G537-G548	5.1	3
74	Yersinia enterocolitica Affects Intestinal Barrier Function in the Colon. <i>Journal of Infectious Diseases</i> , <b>2016</b> , 213, 1157-62	7	11
73	ENaC Dysregulation Through Activation of MEK1/2 Contributes to Impaired Na <sup>+</sup> Absorption in Lymphocytic Colitis. <i>Inflammatory Bowel Diseases</i> , <b>2016</b> , 22, 539-47	4.5	16
72	The ginger component 6-shogaol prevents TNF-β-induced barrier loss via inhibition of PI3K/Akt and NF-β signaling. <i>Molecular Nutrition and Food Research</i> , <b>2016</b> , 60, 2576-2586	5.9	44
71	Hereditary barrier-related diseases involving the tight junction: lessons from skin and intestine. <i>Cell and Tissue Research</i> , <b>2015</b> , 360, 723-48	4.2	16
70	Probing the cis-arrangement of prototype tight junction proteins claudin-1 and claudin-3. <i>Biochemical Journal</i> , <b>2015</b> , 468, 449-58	3.8	24
69	Interleukin-13 affects the epithelial sodium channel in the intestine by coordinated modulation of STAT6 and p38 MAPK activity. <i>Journal of Physiology</i> , <b>2015</b> , 593, 5269-82	3.9	22

68	Monocyte and M1 Macrophage-induced Barrier Defect Contributes to Chronic Intestinal Inflammation in IBD. <i>Inflammatory Bowel Diseases</i> , <b>2015</b> , 21, 1297-305	4.5	129
67	Claudin-related intestinal diseases. <i>Seminars in Cell and Developmental Biology</i> , <b>2015</b> , 42, 30-8	7.5	62
66	Intestinal permeability--a new target for disease prevention and therapy. <i>BMC Gastroenterology</i> , <b>2014</b> , 14, 189	3	810
65	Haemolysin of Escherichia coli in IBD: a potentiator of inflammatory activity in the colon. <i>Gut</i> , <b>2014</b> , 63, 1893-901	19.2	43
64	Tight junction, selective permeability, and related diseases. <i>Seminars in Cell and Developmental Biology</i> , <b>2014</b> , 36, 166-76	7.5	179
63	Small intestinal permeability in older adults. <i>Physiological Reports</i> , <b>2014</b> , 2, e00281	2.6	20
62	New insights into intestinal secretion. <i>Gut</i> , <b>2014</b> , 63, 1371-2	19.2	1
61	Improved cell line IPEC-J2, characterized as a model for porcine jejunal epithelium. <i>PLoS ONE</i> , <b>2013</b> , 8, e79643	3.7	57
60	Perspectives on tight junction research. <i>Annals of the New York Academy of Sciences</i> , <b>2012</b> , 1257, 1-19	6.5	37
59	Defective tight junctions in refractory celiac disease. <i>Annals of the New York Academy of Sciences</i> , <b>2012</b> , 1258, 43-51	6.5	38
58	Effects of quercetin studied in colonic HT-29/B6 cells and rat intestine in vitro. <i>Annals of the New York Academy of Sciences</i> , <b>2012</b> , 1258, 100-7	6.5	26
57	Ion transport and barrier function are disturbed in microscopic colitis. <i>Annals of the New York Academy of Sciences</i> , <b>2012</b> , 1258, 143-8	6.5	22
56	Determinants of colonic barrier function in inflammatory bowel disease and potential therapeutics. <i>Journal of Physiology</i> , <b>2012</b> , 590, 1035-44	3.9	171
55	Claudin-17 forms tight junction channels with distinct anion selectivity. <i>Cellular and Molecular Life Sciences</i> , <b>2012</b> , 69, 2765-78	10.3	84
54	The plant-derived glucocorticoid receptor agonist Endiandrin A acts as co-stimulator of colonic epithelial sodium channels (ENaC) via SGK-1 and MAPKs. <i>PLoS ONE</i> , <b>2012</b> , 7, e49426	3.7	11
53	Epithelial barriers in intestinal inflammation. <i>Antioxidants and Redox Signaling</i> , <b>2011</b> , 15, 1255-70	8.4	117
52	Anti-diarrheal mechanism of the traditional remedy Uzara via reduction of active chloride secretion. <i>PLoS ONE</i> , <b>2011</b> , 6, e18107	3.7	15
51	Oral and fecal Campylobacter concisus strains perturb barrier function by apoptosis induction in HT-29/B6 intestinal epithelial cells. <i>PLoS ONE</i> , <b>2011</b> , 6, e23858	3.7	63

50	Yersinia enterocolitica induces epithelial barrier dysfunction through regional tight junction changes in colonic HT-29/B6 cell monolayers. <i>Laboratory Investigation</i> , <b>2011</b> , 91, 310-24	5.9	31
49	Glucocorticoid receptor is indispensable for physiological responses to aldosterone in epithelial Na <sup>+</sup> channel induction via the mineralocorticoid receptor in a human colonic cell line. <i>European Journal of Cell Biology</i> , <b>2011</b> , 90, 432-9	6.1	18
48	Aerolysin from <i>Aeromonas hydrophila</i> perturbs tight junction integrity and cell lesion repair in intestinal epithelial HT-29/B6 cells. <i>Journal of Infectious Diseases</i> , <b>2011</b> , 204, 1283-92	7	47
47	Transforming growth factor- $\beta$ 1 whey protein component, strengthens the intestinal barrier by upregulating claudin-4 in HT-29/B6 cells. <i>Journal of Nutrition</i> , <b>2011</b> , 141, 783-9	4.1	74
46	TNF $\alpha$ -induced and berberine-antagonized tight junction barrier impairment via tyrosine kinase, Akt and NF $\kappa$ B signaling. <i>Journal of Cell Science</i> , <b>2010</b> , 123, 4145-55	5.3	164
45	Claudins in Intestinal Function and Disease. <i>Current Topics in Membranes</i> , <b>2010</b> , 195-227	2.2	12
44	Claudin-2, a component of the tight junction, forms a paracellular water channel. <i>Journal of Cell Science</i> , <b>2010</b> , 123, 1913-21	5.3	291
43	Claudin-3 acts as a sealing component of the tight junction for ions of either charge and uncharged solutes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2010</b> , 1798, 2048-57	3.8	155
42	Norovirus non-structural protein p20 leads to impaired restitution of epithelial defects by inhibition of actin cytoskeleton remodelling. <i>Scandinavian Journal of Gastroenterology</i> , <b>2010</b> , 45, 1307-19	3.4	3
41	Tricellulin forms a barrier to macromolecules in tricellular tight junctions without affecting ion permeability. <i>Molecular Biology of the Cell</i> , <b>2009</b> , 20, 3713-24	3.5	252
40	TNF $\alpha$ up-regulates claudin-2 expression in epithelial HT-29/B6 cells via phosphatidylinositol-3-kinase signaling. <i>Cell and Tissue Research</i> , <b>2009</b> , 336, 67-77	4.2	112
39	Inflamed pouch mucosa possesses altered tight junctions indicating recurrence of inflammatory bowel disease. <i>International Journal of Colorectal Disease</i> , <b>2009</b> , 24, 1149-56	3	40
38	High-resolution analysis of barrier function. <i>Annals of the New York Academy of Sciences</i> , <b>2009</b> , 1165, 74-81	6.5	20
37	Epithelial tight junctions in intestinal inflammation. <i>Annals of the New York Academy of Sciences</i> , <b>2009</b> , 1165, 294-300	6.5	259
36	Disorders of intestinal secretion and absorption. <i>Baillieres Best Practice and Research in Clinical Gastroenterology</i> , <b>2009</b> , 23, 395-406	2.5	15
35	Na <sup>+</sup> absorption defends from paracellular back-leakage by claudin-8 upregulation. <i>Biochemical and Biophysical Research Communications</i> , <b>2009</b> , 378, 45-50	3.4	78
34	A colonic mineralocorticoid receptor cell model expressing epithelial Na <sup>+</sup> channels. <i>Biochemical and Biophysical Research Communications</i> , <b>2009</b> , 382, 280-5	3.4	9
33	Therapeutic options to modulate barrier defects in inflammatory bowel disease. <i>Digestive Diseases</i> , <b>2009</b> , 27, 450-4	3.2	80

32	Regulation of mucosal structure and barrier function in rat colon exposed to tumor necrosis factor alpha and interferon gamma in vitro: a novel model for studying the pathomechanisms of inflammatory bowel disease cytokines. <i>Scandinavian Journal of Gastroenterology</i> , <b>2009</b> , 44, 1226-35	2.4	88
31	<i>Arcobacter butzleri</i> induces barrier dysfunction in intestinal HT-29/B6 cells. <i>Journal of Infectious Diseases</i> , <b>2009</b> , 200, 756-64	7	55
30	Altered ENaC expression leads to impaired sodium absorption in the noninflamed intestine in Crohn's disease. <i>Gastroenterology</i> , <b>2008</b> , 134, 1436-47	13.3	56
29	Quercetin enhances epithelial barrier function and increases claudin-4 expression in Caco-2 cells. <i>Journal of Nutrition</i> , <b>2008</b> , 138, 1067-73	4.1	115
28	Butyrate induces intestinal sodium absorption via Sp3-mediated transcriptional up-regulation of epithelial sodium channels. <i>Gastroenterology</i> , <b>2007</b> , 132, 236-48	13.3	37
27	<i>Escherichia coli</i> alpha-haemolysin induces focal leaks in colonic epithelium: a novel mechanism of bacterial translocation. <i>Cellular Microbiology</i> , <b>2007</b> , 9, 2530-40	3.9	41
26	TRPV4-mediated regulation of epithelial permeability. <i>FASEB Journal</i> , <b>2006</b> , 20, 1802-12	0.9	93
25	Restoration of ENaC expression by glucocorticoid receptor transfection in human HT-29/B6 colon cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2006</b> , 344, 1065-70	3.4	13
24	Disrupted barrier function through epithelial cell apoptosis. <i>Annals of the New York Academy of Sciences</i> , <b>2006</b> , 1072, 288-99	6.5	131
23	Interleukin-13 is the key effector Th2 cytokine in ulcerative colitis that affects epithelial tight junctions, apoptosis, and cell restitution. <i>Gastroenterology</i> , <b>2005</b> , 129, 550-64	13.3	809
22	Interleukin-13 Is the Key Effector Th2 Cytokine in Ulcerative Colitis That Affects Epithelial Tight Junctions, Apoptosis, and Cell Restitution. <i>Gastroenterology</i> , <b>2005</b> , 129, 550-564	13.3	654
21	Contribution of claudin-5 to barrier properties in tight junctions of epithelial cells. <i>Cell and Tissue Research</i> , <b>2005</b> , 321, 89-96	4.2	135
20	The specific fates of tight junction proteins in apoptotic epithelial cells. <i>Journal of Cell Science</i> , <b>2004</b> , 117, 2097-107	5.3	139
19	Downregulation of epithelial apoptosis and barrier repair in active Crohn's disease by tumour necrosis factor alpha antibody treatment. <i>Gut</i> , <b>2004</b> , 53, 1295-302	19.2	230
18	Cytokine-dependent transcriptional down-regulation of epithelial sodium channel in ulcerative colitis. <i>Gastroenterology</i> , <b>2004</b> , 126, 1711-20	13.3	99
17	Functional crosstalk between Wnt signaling and Cdx-related transcriptional activation in the regulation of the claudin-2 promoter activity. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 314, 1001-7	3.4	73
16	IL-1beta and TNFalpha regulate sodium absorption in rat distal colon. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 317, 500-7	3.4	52
15	Supernatants of HIV-infected immune cells affect the barrier function of human HT-29/B6 intestinal epithelial cells. <i>Aids</i> , <b>2002</b> , 16, 983-91	3.5	48

14	Mechanisms of diarrhea in collagenous colitis. <i>Gastroenterology</i> , <b>2002</b> , 123, 433-43	13.3	199
13	Claudin-2 expression induces cation-selective channels in tight junctions of epithelial cells. <i>Journal of Cell Science</i> , <b>2002</b> , 115, 4969-76	5.3	611
12	Epithelial barrier defects in HT-29/B6 colonic cell monolayers induced by tumor necrosis factor-alpha. <i>Annals of the New York Academy of Sciences</i> , <b>2000</b> , 915, 193-203	6.5	72
11	Apoptosis and intestinal barrier function. <i>Annals of the New York Academy of Sciences</i> , <b>2000</b> , 915, 270-4	6.5	34
10	Mechanisms of epithelial barrier impairment in HIV infection. <i>Annals of the New York Academy of Sciences</i> , <b>2000</b> , 915, 293-303	6.5	34
9	Leaks in the epithelial barrier caused by spontaneous and TNF-alpha-induced single-cell apoptosis. <i>FASEB Journal</i> , <b>2000</b> , 14, 1749-53	0.9	205
8	Complex phenotype of mice lacking occludin, a component of tight junction strands. <i>Molecular Biology of the Cell</i> , <b>2000</b> , 11, 4131-42	3.5	889
7	Altered tight junction structure contributes to the impaired epithelial barrier function in ulcerative colitis. <i>Gastroenterology</i> , <b>1999</b> , 116, 301-9	13.3	437
6	The mechanism of diarrhea in HIV is based on an impaired epithelial barrier function that could be induced by a specific cytokine pattern. <i>Annals of the New York Academy of Sciences</i> , <b>1998</b> , 859, 267-70	6.5	11
5	Clinical models of intestinal adaptation. <i>Annals of the New York Academy of Sciences</i> , <b>1998</b> , 859, 127-38	6.5	8
4	Duodenal biopsies of HIV-infected patients with diarrhoea exhibit epithelial barrier defects but no active secretion. <i>Aids</i> , <b>1998</b> , 12, 43-51	3.5	63
3	Epithelial tight junction structure in the jejunum of children with acute and treated celiac sprue. <i>Pediatric Research</i> , <b>1998</b> , 43, 435-41	3.2	132
2	Ussing chamber for high-frequency transmural impedance analysis of epithelial tissues. <i>Journal of Proteomics</i> , <b>1997</b> , 35, 81-8		48
1	Ion transport in the experimental short bowel syndrome of the rat. <i>Gastroenterology</i> , <b>1992</b> , 102, 497-504	13.3	65