

Christopher R Weber

List of Publications by Citations

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

89 papers	5,972 citations	39 h-index	77 g-index
99 ext. papers	7,082 ext. citations	7.7 avg, IF	5.53 L-index

#	Paper	IF	Citations
89	Tight junction pore and leak pathways: a dynamic duo. <i>Annual Review of Physiology</i> , 2011 , 73, 283-309	23.1	550
88	A mathematical treatment of integrated Ca dynamics within the ventricular myocyte. <i>Biophysical Journal</i> , 2004 , 87, 3351-71	2.9	402
87	Cellular basis of abnormal calcium transients of failing human ventricular myocytes. <i>Circulation Research</i> , 2003 , 92, 651-8	15.7	363
86	Caveolin-1-dependent occludin endocytosis is required for TNF-induced tight junction regulation in vivo. <i>Journal of Cell Biology</i> , 2010 , 189, 111-26	7.3	321
85	The tight junction protein complex undergoes rapid and continuous molecular remodeling at steady state. <i>Journal of Cell Biology</i> , 2008 , 181, 683-95	7.3	268
84	Intracellular Na(+) concentration is elevated in heart failure but Na/K pump function is unchanged. <i>Circulation</i> , 2002 , 105, 2543-8	16.7	242
83	Claudin-1 and claudin-2 expression is elevated in inflammatory bowel disease and may contribute to early neoplastic transformation. <i>Laboratory Investigation</i> , 2008 , 88, 1110-20	5.9	229
82	Epithelial myosin light chain kinase activation induces mucosal interleukin-13 expression to alter tight junction ion selectivity. <i>Journal of Biological Chemistry</i> , 2010 , 285, 12037-46	5.4	192
81	Occludin S408 phosphorylation regulates tight junction protein interactions and barrier function. <i>Journal of Cell Biology</i> , 2011 , 193, 565-82	7.3	176
80	MLCK-dependent exchange and actin binding region-dependent anchoring of ZO-1 regulate tight junction barrier function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 8237-41	11.5	171
79	Na(+)-Ca(2+) exchange current and submembrane [Ca(2+)] during the cardiac action potential. <i>Circulation Research</i> , 2002 , 90, 182-9	15.7	163
78	Microbial signals drive pre-leukaemic myeloproliferation in a Tet2-deficient host. <i>Nature</i> , 2018 , 557, 580-584	58.4	163
77	Targeted deletion of MyD88 in intestinal epithelial cells results in compromised antibacterial immunity associated with downregulation of polymeric immunoglobulin receptor, mucin-2, and antibacterial peptides. <i>Mucosal Immunology</i> , 2012 , 5, 501-12	9.2	152
76	Bifidobacteria stabilize claudins at tight junctions and prevent intestinal barrier dysfunction in mouse necrotizing enterocolitis. <i>American Journal of Pathology</i> , 2013 , 182, 1595-606	5.8	147
75	Allosteric regulation of Na/Ca exchange current by cytosolic Ca in intact cardiac myocytes. <i>Journal of General Physiology</i> , 2001 , 117, 119-31	3.4	136
74	Dynamic regulation of sodium/calcium exchange function in human heart failure. <i>Circulation</i> , 2003 , 108, 2224-9	16.7	124
73	Phosphoinositide 3-kinase signaling mediates beta-catenin activation in intestinal epithelial stem and progenitor cells in colitis. <i>Gastroenterology</i> , 2010 , 139, 869-81, 881.e1-9	13.3	116

72	Integrated molecular subtyping defines a curable oligometastatic state in colorectal liver metastasis. <i>Nature Communications</i> , 2018 , 9, 1793	17.4	114
71	Occludin OCEL-domain interactions are required for maintenance and regulation of the tight junction barrier to macromolecular flux. <i>Molecular Biology of the Cell</i> , 2013 , 24, 3056-68	3.5	113
70	Dynamic migration of intraepithelial lymphocytes requires occludin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 7097-102	11.5	106
69	ECatenin promotes colitis and colon cancer through imprinting of proinflammatory properties in T cells. <i>Science Translational Medicine</i> , 2014 , 6, 225ra28	17.5	95
68	Inflammatory bowel disease: is it really just another break in the wall?. <i>Gut</i> , 2007 , 56, 6-8	19.2	93
67	Genistein inhibits proliferation of colon cancer cells by attenuating a negative effect of epidermal growth factor on tumor suppressor FOXO3 activity. <i>BMC Cancer</i> , 2011 , 11, 219	4.8	80
66	Pitx2 modulates a Tbx5-dependent gene regulatory network to maintain atrial rhythm. <i>Science Translational Medicine</i> , 2016 , 8, 354ra115	17.5	79
65	Claudin-2-dependent paracellular channels are dynamically gated. <i>ELife</i> , 2015 , 4, e09906	8.9	71
64	Dynamic properties of the tight junction barrier. <i>Annals of the New York Academy of Sciences</i> , 2012 , 1257, 77-84	6.5	64
63	Automated microfluidic platform for dynamic and combinatorial drug screening of tumor organoids. <i>Nature Communications</i> , 2020 , 11, 5271	17.4	64
62	Safety and Efficacy of Combination Treatment With Calcineurin Inhibitors and Vedolizumab in Patients With Refractory Inflammatory Bowel Disease. <i>Clinical Gastroenterology and Hepatology</i> , 2019 , 17, 486-493	6.9	53
61	Molecular aspects of tight junction barrier function. <i>Current Opinion in Pharmacology</i> , 2014 , 19, 84-9	5.1	52
60	Control of maximum sarcoplasmic reticulum Ca load in intact ferret ventricular myocytes. Effects Of thapsigargin and isoproterenol. <i>Journal of General Physiology</i> , 1998 , 111, 491-504	3.4	50
59	The Thr300Ala variant in ATG16L1 is associated with improved survival in human colorectal cancer and enhanced production of type I interferon. <i>Gut</i> , 2016 , 65, 456-64	19.2	47
58	Modulation of the pancreatic islet beta-cell-delayed rectifier potassium channel Kv2.1 by the polyunsaturated fatty acid arachidonate. <i>Journal of Biological Chemistry</i> , 2007 , 282, 7442-9	5.4	47
57	MMP25 (MT6-MMP) is highly expressed in human colon cancer, promotes tumor growth, and exhibits unique biochemical properties. <i>Journal of Biological Chemistry</i> , 2007 , 282, 21998-2010	5.4	47
56	Human Organoids Share Structural and Genetic Features with Primary Pancreatic Adenocarcinoma Tumors. <i>Molecular Cancer Research</i> , 2019 , 17, 70-83	6.6	45
55	Cardiac submembrane [Na ⁺] transients sensed by Na ⁺ -Ca ²⁺ exchange current. <i>Circulation Research</i> , 2003 , 92, 950-2	15.7	43

54	Tryptophan Metabolism through the Kynurenine Pathway is Associated with Endoscopic Inflammation in Ulcerative Colitis. <i>Inflammatory Bowel Diseases</i> , 2018 , 24, 1471-1480	4.5	43
53	Tumor suppressor FOXO3 participates in the regulation of intestinal inflammation. <i>Laboratory Investigation</i> , 2009 , 89, 1053-62	5.9	40
52	Tumor suppressor Foxo3a is involved in the regulation of lipopolysaccharide-induced interleukin-8 in intestinal HT-29 cells. <i>Infection and Immunity</i> , 2008 , 76, 4677-85	3.7	40
51	Retinoic acid-induced gene-1 (RIG-I) associates with the actin cytoskeleton via caspase activation and recruitment domain-dependent interactions. <i>Journal of Biological Chemistry</i> , 2009 , 284, 6486-94	5.4	39
50	Interleukin-15 promotes intestinal dysbiosis with butyrate deficiency associated with increased susceptibility to colitis. <i>ISME Journal</i> , 2017 , 11, 15-30	11.9	36
49	FOXO3 growth inhibition of colonic cells is dependent on intraepithelial lipid droplet density. <i>Journal of Biological Chemistry</i> , 2013 , 288, 16274-16281	5.4	36
48	Cardiac Na ⁺ -Ca ²⁺ exchanger: dynamics of Ca ²⁺ -dependent activation and deactivation in intact myocytes. <i>Journal of Physiology</i> , 2013 , 591, 2067-86	3.9	29
47	Patients With Ulcerative Colitis and Primary Sclerosing Cholangitis Frequently Have Subclinical Inflammation in the Proximal Colon. <i>Clinical Gastroenterology and Hepatology</i> , 2018 , 16, 68-74	6.9	26
46	Spectral biomarkers for chemoprevention of colonic neoplasia: a placebo-controlled double-blinded trial with aspirin. <i>Gut</i> , 2017 , 66, 285-292	19.2	25
45	Constipation-Predominant Irritable Bowel Syndrome Females Have Normal Colonic Barrier and Secretory Function. <i>American Journal of Gastroenterology</i> , 2017 , 112, 913-923	0.7	24
44	Vedolizumab as Induction and Maintenance for Inflammatory Bowel Disease: 12-month Effectiveness and Safety. <i>Inflammatory Bowel Diseases</i> , 2018 , 24, 849-860	4.5	24
43	Transcription-factor-dependent enhancer transcription defines a gene regulatory network for cardiac rhythm. <i>ELife</i> , 2017 , 6,	8.9	24
42	Expression of TNFAIP3 in intestinal epithelial cells protects from DSS- but not TNBS-induced colitis. <i>American Journal of Physiology - Renal Physiology</i> , 2012 , 303, G220-7	5.1	22
41	Tumor suppressor FOXO3 mediates signals from the EGF receptor to regulate proliferation of colonic cells. <i>American Journal of Physiology - Renal Physiology</i> , 2011 , 300, G264-72	5.1	20
40	New paradigms for understanding and step changes in treating active and chronic, persistent apicomplexan infections. <i>Scientific Reports</i> , 2016 , 6, 29179	4.9	20
39	Molecular determination of claudin-15 organization and channel selectivity. <i>Journal of General Physiology</i> , 2018 , 150, 949-968	3.4	19
38	Na/Ca exchange function in intact ventricular myocytes. <i>Annals of the New York Academy of Sciences</i> , 2002 , 976, 500-12	6.5	19
37	Insights into the pathogenesis of ulcerative colitis from a murine model of stasis-induced dysbiosis, colonic metaplasia, and genetic susceptibility. <i>American Journal of Physiology - Renal Physiology</i> , 2016 , 310, G973-88	5.1	18

36	A calcium transport mechanism for atrial fibrillation in Tbx5-mutant mice. <i>ELife</i> , 2019 , 8,	8.9	18
35	Capsaicin induces NKCC1 internalization and inhibits chloride secretion in colonic epithelial cells independently of TRPV1. <i>American Journal of Physiology - Renal Physiology</i> , 2013 , 304, G142-56	5.1	17
34	Targeted mutational analysis of inflammatory bowel disease-associated colorectal cancers. <i>Human Pathology</i> , 2019 , 89, 44-50	3.7	16
33	Intestinal epithelial expression of TNFAIP3 results in microbial invasion of the inner mucus layer and induces colitis in IL-10-deficient mice. <i>American Journal of Physiology - Renal Physiology</i> , 2014 , 307, G871-82	5.1	16
32	Modulation of contractility in failing human myocytes by reverse-mode Na/Ca exchange. <i>Annals of the New York Academy of Sciences</i> , 2002 , 976, 466-71	6.5	16
31	Topical polyethylene glycol as a novel chemopreventive agent for oral cancer via targeting of epidermal growth factor response. <i>PLoS ONE</i> , 2012 , 7, e38047	3.7	15
30	Atrial fibrillation risk loci interact to modulate Ca ²⁺ -dependent atrial rhythm homeostasis. <i>Journal of Clinical Investigation</i> , 2019 , 129, 4937-4950	15.9	15
29	Calcium influx via I(NCX) is favored in failing human ventricular myocytes. <i>Annals of the New York Academy of Sciences</i> , 2002 , 976, 478-9	6.5	14
28	Wnt- β -catenin activation epigenetically reprograms T cells in inflammatory bowel disease and dysplastic progression. <i>Nature Immunology</i> , 2021 , 22, 471-484	19.1	14
27	Idiopathic pulmonary fibrosis is associated with tight junction protein alterations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020 , 1862, 183205	3.8	12
26	Serum Serotonin Differentiates Between Disease Activity States in Crohn's Patients. <i>Inflammatory Bowel Diseases</i> , 2020 , 26, 1607-1618	4.5	12
25	Dynamic modeling of the tight junction pore pathway. <i>Annals of the New York Academy of Sciences</i> , 2017 , 1397, 209-218	6.5	11
24	Rectal leiomyosarcoma in association with ulcerative colitis: a rare condition with an unusual presentation. <i>International Journal of Colorectal Disease</i> , 2014 , 29, 887-8	3	11
23	Cerebral Cavernous Malformation Proteins in Barrier Maintenance and Regulation. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	10
22	Higher Order Chromatin Modulator Cohesin SA1 Is an Early Biomarker for Colon Carcinogenesis: Race-Specific Implications. <i>Cancer Prevention Research</i> , 2016 , 9, 844-854	3.2	10
21	Antrum Mucosal Protein-18 Peptide Targets Tight Junctions to Protect and Heal Barrier Structure and Function in Models of Inflammatory Bowel Disease. <i>Inflammatory Bowel Diseases</i> , 2015 , 21, 2393-2402	4.5	10
20	Early Transcriptomic Changes in the Ileal Pouch Provide Insight into the Molecular Pathogenesis of Pouchitis and Ulcerative Colitis. <i>Inflammatory Bowel Diseases</i> , 2017 , 23, 366-378	4.5	8
19	Activation of the PKA signaling pathway stimulates oxalate transport by human intestinal Caco2-BBE cells. <i>American Journal of Physiology - Cell Physiology</i> , 2020 , 318, C372-C379	5.4	7

18	IBD-associated Colon Cancers Differ in DNA Methylation and Gene Expression Profiles Compared With Sporadic Colon Cancers. <i>Journal of Crohn's and Colitis</i> , 2019 , 13, 884-893	1.5	7
17	The cerebral cavernous malformation disease causing gene KRIT1 participates in intestinal epithelial barrier maintenance and regulation. <i>FASEB Journal</i> , 2019 , 33, 2132-2143	0.9	7
16	Potent Tetrahydroquinolone Eliminates Apicomplexan Parasites. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020 , 10, 203	5.9	6
15	Impact of Hibernation on Gut Microbiota and Intestinal Barrier Function in Ground Squirrels 2012 , 281-291		6
14	ZO-1 Regulates Intercalated Disc Composition and Atrioventricular Node Conduction. <i>Circulation Research</i> , 2020 , 127, e28-e43	15.7	5
13	Computational Modeling of Claudin Structure and Function. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
12	Simultaneous measurement of [Na] _i , [Ca] _i , and I(NCX) in intact cardiac myocytes. <i>Annals of the New York Academy of Sciences</i> , 2002 , 976, 157-8	6.5	3
11	T cell protein tyrosine phosphatase protects intestinal barrier function by restricting epithelial tight junction remodeling. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	3
10	Polyethylene glycol diminishes pathological effects of <i>Citrobacter rodentium</i> infection by blocking bacterial attachment to the colonic epithelia. <i>Gut Microbes</i> , 2011 , 2, 267-73	8.8	2
9	Appendicitis Secondary to a Fractured, Penetrating Celect IVC Filter in a Young Kidney Transplant Recipient. <i>Journal of Vascular and Interventional Radiology</i> , 2019 , 30, 963-965	2.4	1
8	Unusual gastric subepithelial tumor: primary mixed acinar-endocrine neoplasm in an anemic woman. <i>Gastrointestinal Endoscopy</i> , 2018 , 87, 1355-1356	5.2	1
7	Caveolin-1-dependent occludin endocytosis is required for TNF-induced tight junction regulation in vivo. <i>Journal of Experimental Medicine</i> , 2010 , 207, i10-i10	16.6	1
6	Identification of discrete single tight junction opening/closing events with ion channel-like properties. <i>FASEB Journal</i> , 2012 , 26, 1107.3	0.9	1
5	Transcriptional factors in calcium mishandling and atrial fibrillation development. <i>Pflügers Archiv European Journal of Physiology</i> , 2021 , 473, 1177-1197	4.6	1
4	Prevention of colonic neoplasia with polyethylene glycol: A short term randomized placebo-controlled double-blinded trial. <i>PLoS ONE</i> , 2018 , 13, e0193544	3.7	0
3	Lipid droplet accumulation promotes proliferation in colon cells via loss of FOXO3-dependent cell cycle arrest. <i>FASEB Journal</i> , 2011 , 25, 1103.9	0.9	
2	Claudin 2 protein expression is increased in human necrotizing enterocolitis. <i>FASEB Journal</i> , 2012 , 26, 1162.1	0.9	
1	Tbx18 sets the pace. <i>Journal of Physiology</i> , 2018 , 596, 6129-6130	3.9	

