

# Marc D Basson

## 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.

113 papers	2,059 citations	28 h-index	40 g-index
117 ext. papers	2,352 ext. citations	4 avg, IF	5.04 L-index

#	Paper	IF	Citations
113	Pressure activates colon cancer cell adhesion by inside-out focal adhesion complex and actin cytoskeletal signaling. <i>Gastroenterology</i> , <b>2004</b> , 126, 8-18	13.3	171
112	The effects of mechanical forces on intestinal physiology and pathology. <i>Cellular Signalling</i> , <b>2009</b> , 21, 1237-44	4.9	117
111	Intestinal mucosal atrophy and adaptation. <i>World Journal of Gastroenterology</i> , <b>2012</b> , 18, 6357-75	5.6	70
110	Amplitude-dependent modulation of brush border enzymes and proliferation by cyclic strain in human intestinal Caco-2 monolayers. <i>Journal of Cellular Physiology</i> , <b>1996</b> , 168, 476-88	7	59
109	Regulation of the intestinal epithelial response to cyclic strain by extracellular matrix proteins. <i>FASEB Journal</i> , <b>2003</b> , 17, 926-8	0.9	58
108	Effects of increased ambient pressure on colon cancer cell adhesion. <i>Journal of Cellular Biochemistry</i> , <b>2000</b> , 78, 47-61	4.7	57
107	Extracellular pressure stimulates macrophage phagocytosis by inhibiting a pathway involving FAK and ERK. <i>American Journal of Physiology - Cell Physiology</i> , <b>2004</b> , 286, C1358-66	5.4	53
106	Akt directly regulates focal adhesion kinase through association and serine phosphorylation: implication for pressure-induced colon cancer metastasis. <i>American Journal of Physiology - Cell Physiology</i> , <b>2011</b> , 300, C657-70	5.4	50
105	Transforming growth factor-beta stimulates intestinal epithelial focal adhesion kinase synthesis via Smad- and p38-dependent mechanisms. <i>American Journal of Pathology</i> , <b>2008</b> , 173, 385-99	5.8	47
104	Human caco-2 motility redistributes FAK and paxillin and activates p38 MAPK in a matrix-dependent manner. <i>American Journal of Physiology - Renal Physiology</i> , <b>2000</b> , 278, G952-66	5.1	47
103	Short chain fatty acids inhibit human (SW1116) colon cancer cell invasion by reducing urokinase plasminogen activator activity and stimulating TIMP-1 and TIMP-2 activities, rather than via MMP modulation. <i>Journal of Surgical Research</i> , <b>1998</b> , 76, 41-6	2.5	42
102	Absence of adhesion triggers differential FAK and SAPKp38 signals in SW620 human colon cancer cells that may inhibit adhesiveness and lead to cell death. <i>Cellular Physiology and Biochemistry</i> , <b>2003</b> , 13, 135-46	3.9	41
101	Collagen IV regulates Caco-2 migration and ERK activation via alpha1beta1- and alpha2beta1-integrin-dependent Src kinase activation. <i>American Journal of Physiology - Renal Physiology</i> , <b>2004</b> , 286, G547-57	5.1	41
100	The mitogenic effects of cyclic mechanical strain on intestinal epithelial monolayer wound closure are matrix dependent. <i>Gastroenterology</i> , <b>2006</b> , 131, 1179-89	13.3	37
99	Colchicine inhibits pressure-induced tumor cell implantation within surgical wounds and enhances tumor-free survival in mice. <i>Journal of Clinical Investigation</i> , <b>2008</b> , 118, 3170-80	15.9	37
98	Role of RhoA and its effectors ROCK and mDia1 in the modulation of deformation-induced FAK, ERK, p38, and MLC mitogenic signals in human Caco-2 intestinal epithelial cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2011</b> , 301, C1224-38	5.4	36
97	Matrix-specific effect of endothelial control of smooth muscle cell migration. <i>Journal of Vascular Surgery</i> , <b>1996</b> , 24, 51-7	3.5	35

96	Smad3 knockout mice exhibit impaired intestinal mucosal healing. <i>Laboratory Investigation</i> , <b>2008</b> , 88, 1101-9	5.9	34
95	The role of the cytoskeleton in differentially regulating pressure-mediated effects on malignant colonocyte focal adhesion signaling and cell adhesion. <i>Carcinogenesis</i> , <b>2005</b> , 26, 1687-97	4.6	33
94	Coculture conditions alter endothelial modulation of TGF-beta 1 activation and smooth muscle growth morphology. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>1998</b> , 274, H642-9	5.2	32
93	Identification and comparative analysis of human colonocyte short-chain fatty acid response genes. <i>Journal of Gastrointestinal Surgery</i> , <b>2000</b> , 4, 501-12	3.3	30
92	Strain induces Caco-2 intestinal epithelial proliferation and differentiation via PKC and tyrosine kinase signals. <i>American Journal of Physiology - Renal Physiology</i> , <b>1998</b> , 275, G534-41	5.1	30
91	Patient Preferences for Surgery or Antibiotics for the Treatment of Acute Appendicitis. <i>JAMA Surgery</i> , <b>2018</b> , 153, 471-478	5.4	29
90	Repetitive deformation activates Src-independent FAK-dependent ERK mitogenic signals in human Caco-2 intestinal epithelial cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2008</b> , 294, C1350-61	5.4	29
89	Differential modulation of human (Caco-2) colon cancer cell line phenotype by short chain fatty acids. <i>Experimental Biology and Medicine</i> , <b>1998</b> , 217, 476-83	3.7	29
88	PTK6 promotes cancer migration and invasion in pancreatic cancer cells dependent on ERK signaling. <i>PLoS ONE</i> , <b>2014</b> , 9, e96060	3.7	28
87	Paxillin modulates squamous cancer cell adhesion and is important in pressure-augmented adhesion. <i>Journal of Cellular Biochemistry</i> , <b>2006</b> , 98, 1507-16	4.7	28
86	Colon cancer cell adhesion in response to Src kinase activation and actin-cytoskeleton by non-laminar shear stress. <i>Journal of Cellular Biochemistry</i> , <b>2004</b> , 92, 361-71	4.7	28
85	Basal nutrition promotes human intestinal epithelial (Caco-2) proliferation, brush border enzyme activity, and motility. <i>Critical Care Medicine</i> , <b>1997</b> , 25, 159-65	1.4	28
84	P300 inhibition enhances gemcitabine-induced apoptosis of pancreatic cancer. <i>Oncotarget</i> , <b>2016</b> , 7, 51301-51318	5.3	28
83	Increased extracellular pressure stimulates tumor proliferation by a mechanosensitive calcium channel and PKC- $\zeta$ . <i>Molecular Oncology</i> , <b>2015</b> , 9, 513-26	7.9	27
82	Strain-induced proliferation requires the phosphatidylinositol 3-kinase/AKT/glycogen synthase kinase pathway. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 2001-11	5.4	27
81	Impact of objectively assessing surgeons' teaching on effective perioperative instructional behaviors. <i>JAMA Surgery</i> , <b>2013</b> , 148, 915-22	5.4	26
80	Characterizing Long COVID: Deep Phenotype of a Complex Condition. <i>EBioMedicine</i> , <b>2021</b> , 74, 103722	8.8	25
79	Schlafen 3 induction by cyclic strain regulates intestinal epithelial differentiation. <i>American Journal of Physiology - Renal Physiology</i> , <b>2010</b> , 298, G994-G1003	5.1	23

78	Squamous Cell Carcinoma Complicating Chronic Suppurative Hydradenitis. <i>American Surgeon</i> , <b>2011</b> , 77, 1449-1453	0.8	22
77	Role of ERK/mTOR signaling in TGFbeta-modulated focal adhesion kinase mRNA stability and protein synthesis in cultured rat IEC-6 intestinal epithelial cells. <i>Cell and Tissue Research</i> , <b>2009</b> , 336, 213-23	4.2	22
76	Evaluation of operating room suite efficiency in the Veterans Health Administration system by using data-envelopment analysis. <i>American Journal of Surgery</i> , <b>2006</b> , 192, 649-56	2.7	22
75	Nef-M1, a peptide antagonist of CXCR4, inhibits tumor angiogenesis and epithelial-to-mesenchymal transition in colon and breast cancers. <i>Oncotarget</i> , <b>2015</b> , 6, 27763-77	3.3	21
74	Schlafen 12 expression modulates prostate cancer cell differentiation. <i>Journal of Surgical Research</i> , <b>2014</b> , 190, 177-84	2.5	19
73	Evolving management of colorectal cancer. <i>World Journal of Gastroenterology</i> , <b>2008</b> , 14, 3956-67	5.6	19
72	Delineating the signals by which repetitive deformation stimulates intestinal epithelial migration across fibronectin. <i>American Journal of Physiology - Renal Physiology</i> , <b>2009</b> , 296, G876-85	5.1	18
71	Focal adhesion kinase protein levels in gut epithelial motility. <i>American Journal of Physiology - Renal Physiology</i> , <b>2006</b> , 291, G491-9	5.1	18
70	Prehospital trauma care education for first responders in India. <i>Journal of Surgical Research</i> , <b>2015</b> , 197, 331-8	2.5	17
69	Schlafen 12 Interaction with SerpinB12 and Deubiquitylases Drives Human Enterocyte Differentiation. <i>Cellular Physiology and Biochemistry</i> , <b>2018</b> , 48, 1274-1290	3.9	16
68	TGF-beta1 modulates focal adhesion kinase expression in rat intestinal epithelial IEC-6 cells via stimulatory and inhibitory Smad binding elements. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , <b>2009</b> , 1789, 88-98	6	16
67	Cytoskeletal signaling by way of alpha-actinin-1 mediates ERK1/2 activation by repetitive deformation in human Caco2 intestinal epithelial cells. <i>American Journal of Surgery</i> , <b>2007</b> , 194, 618-22	2.7	16
66	Visit-to-Visit Variability of Blood Pressure Is Associated With Hospitalization and Mortality in an Unselected Adult Population. <i>American Journal of Hypertension</i> , <b>2018</b> , 31, 1113-1119	2.3	14
65	Small molecule FAK activator promotes human intestinal epithelial monolayer wound closure and mouse ulcer healing. <i>Scientific Reports</i> , <b>2019</b> , 9, 14669	4.9	14
64	The P-loop region of Schlafen 3 acts within the cytosol to induce differentiation of human Caco-2 intestinal epithelial cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2014</b> , 1843, 3029-37	4.9	14
63	Regulation of epithelial differentiation in rat intestine by intraluminal delivery of an adenoviral vector or silencing RNA coding for Schlafen 3. <i>PLoS ONE</i> , <b>2013</b> , 8, e79745	3.7	14
62	Loss of MLK3 signaling impedes ulcer healing by modulating MAPK signaling in mouse intestinal mucosa. <i>American Journal of Physiology - Renal Physiology</i> , <b>2012</b> , 303, G951-60	5.1	14
61	Supraphysiologic extracellular pressure inhibits intestinal epithelial wound healing independently of luminal nutrient flow. <i>American Journal of Surgery</i> , <b>2008</b> , 196, 683-9	2.7	14

60	Do female surgeons learn or teach differently?. <i>American Journal of Surgery</i> , <b>2017</b> , 213, 282-287	2.7	13
59	Schlafen 3 changes during rat intestinal maturation. <i>American Journal of Surgery</i> , <b>2012</b> , 204, 598-601	2.7	13
58	PTK6 Potentiates Gemcitabine-Induced Apoptosis by Prolonging S-phase and Enhancing DNA Damage in Pancreatic Cancer. <i>Molecular Cancer Research</i> , <b>2015</b> , 13, 1174-84	6.6	12
57	Nanomagnetic levitation three-dimensional cultures of breast and colorectal cancers. <i>Journal of Surgical Research</i> , <b>2015</b> , 194, 319-326	2.5	12
56	The correlation between the expression of differentiation markers in rat small intestinal mucosa and the transcript levels of schlafen 3. <i>JAMA Surgery</i> , <b>2013</b> , 148, 1013-9	5.4	12
55	Matrix-specific FAK and MAPK reorganization during Caco-2 cell motility. <i>Microscopy Research and Technique</i> , <b>2000</b> , 51, 191-203	2.8	12
54	Schlafen 3 knockout mice display gender-specific differences in weight gain, food efficiency, and expression of markers of intestinal epithelial differentiation, metabolism, and immune cell function. <i>PLoS ONE</i> , <b>2019</b> , 14, e0219267	3.7	11
53	Alcohol Disrupts Human Liver Stem/Progenitor Cell Proliferation and Differentiation. <i>Journal of Stem Cell Research &amp; Therapy</i> , <b>2014</b> , 4,	1	9
52	Glucagonlike peptide 2 analogue teduglutide: stimulation of proliferation but reduction of differentiation in human Caco-2 intestinal epithelial cells. <i>JAMA Surgery</i> , <b>2013</b> , 148, 1037-42	5.4	9
51	Systolic and Diastolic Blood Pressure Variability as Risk Factors for Adverse Events After Coronary Artery Bypass Grafting. <i>JAMA Surgery</i> , <b>2019</b> , 154, 92-94	5.4	9
50	Schlafen 12 mediates the effects of butyrate and repetitive mechanical deformation on intestinal epithelial differentiation in human Caco-2 intestinal epithelial cells. <i>Human Cell</i> , <b>2019</b> , 32, 240-250	4.5	7
49	Comprehensive Multicenter Graduate Surgical Education Initiative Incorporating Entrustable Professional Activities, Continuous Quality Improvement Cycles, and a Web-Based Platform to Enhance Teaching and Learning. <i>Journal of the American College of Surgeons</i> , <b>2018</b> , 227, 64-76	4.4	7
48	Association of Colonoscopy With Risk of Appendicitis. <i>JAMA Surgery</i> , <b>2018</b> , 153, 90-91	5.4	7
47	Measurement of cationic and intracellular modulation of integrin binding affinity by AFM-based nanorobot. <i>Biophysical Journal</i> , <b>2013</b> , 105, 40-7	2.9	7
46	Functional consequence of the p53 codon 72 polymorphism in colorectal cancer. <i>Oncotarget</i> , <b>2017</b> , 8, 76574-76586	3.3	7
45	Schlafen 3 Mediates the Differentiating Effects of Cdx2 in Rat IEC-Cdx2L1 Enterocytes. <i>Journal of Investigative Surgery</i> , <b>2015</b> , 28, 202-7	1.2	5
44	Preoperative outpatient blood pressure variability predicts postoperative mortality, readmission and morbidity after surgery. <i>American Journal of Surgery</i> , <b>2020</b> , 220, 1083-1092	2.7	5
43	Influence of defunctionalization and mechanical forces on intestinal epithelial wound healing. <i>American Journal of Physiology - Renal Physiology</i> , <b>2012</b> , 303, G1134-43	5.1	5

42	Schlafen12 Reduces the Aggressiveness of Triple Negative Breast Cancer through Post-Transcriptional Regulation of ZEB1 That Drives Stem Cell Differentiation. <i>Cellular Physiology and Biochemistry</i> , <b>2019</b> , 53, 999-1014	3.9	5
41	Schlafen 12 Is Prognostically Favorable and Reduces C-Myc and Proliferation in Lung Adenocarcinoma but Not in Lung Squamous Cell Carcinoma. <i>Cancers</i> , <b>2020</b> , 12,	6.6	5
40	Inside-out signaling through FAK-integrin axis may regulate circulating cancer cell metastatic adhesion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 19795-19796	11.5	5
39	Inhibition of pressure-activated cancer cell adhesion by FAK-derived peptides. <i>Oncotarget</i> , <b>2017</b> , 8, 98051-98067	3.9	4
38	ZINC40099027 activates human focal adhesion kinase by accelerating the enzymatic activity of the FAK kinase domain. <i>Pharmacology Research and Perspectives</i> , <b>2021</b> , 9, e00737	3.1	4
37	Perioperative self-reflection among surgical residents. <i>American Journal of Surgery</i> , <b>2017</b> , 214, 564-570	2.7	3
36	What Skills Do Clinical Evaluators Value Most In Oral Case Presentations?. <i>Teaching and Learning in Medicine</i> , <b>2019</b> , 31, 129-135	3.4	3
35	ZINC4085554 inhibits cancer cell adhesion by interfering with the interaction of Akt1 and FAK. <i>Oncology Letters</i> , <b>2019</b> , 17, 5251-5260	2.6	3
34	Skin perfusion responses under normal and combined loadings: Comparisons between legs with venous stasis ulcers and healthy legs. <i>Clinical Biomechanics</i> , <b>2015</b> , 30, 1218-24	2.2	3
33	Lessons Learned in Evaluating the Infrastructure of a Centre for Translational Research (CTR). <i>Evaluation Journal of Australasia</i> , <b>2020</b> , 20, 6-22	0.5	3
32	Oral Antibiotics for Colon Surgery: The Questions Remain the Same, as Do the Answers. <i>JAMA Surgery</i> , <b>2018</b> , 153, 121-122	5.4	3
31	Loss of Schlafen3 influences the expression levels of Schlafen family members in ileum, thymus, and spleen tissue. <i>PeerJ</i> , <b>2020</b> , 8, e8461	3.1	3
30	Primary care visits increase utilization of evidence-based preventative health measures. <i>BMC Family Practice</i> , <b>2020</b> , 21, 151	2.6	3
29	Loss of Slfn3 induces a sex-dependent repair vulnerability after 50% bowel resection. <i>American Journal of Physiology - Renal Physiology</i> , <b>2021</b> , 320, G136-G152	5.1	3
28	Schlafens: Emerging Proteins in Cancer Cell Biology. <i>Cells</i> , <b>2021</b> , 10,	7.9	3
27	Gut homeostasis, injury, and healing: New therapeutic targets. <i>World Journal of Gastroenterology</i> , <b>2022</b> , 28, 1725-1750	5.6	3
26	The role of the investigative surgeon: asking questions and questioning answers. <i>JAMA Surgery</i> , <b>2014</b> , 149, 1188-90	5.4	2
25	ZINC40099027 Promotes Gastric Mucosal Repair in Ongoing Aspirin-Associated Gastric Injury by Activating Focal Adhesion Kinase. <i>Cells</i> , <b>2021</b> , 10,	7.9	2

24	Discovery of Novel Small-Molecule FAK Activators Promoting Mucosal Healing. <i>ACS Medicinal Chemistry Letters</i> , <b>2021</b> , 12, 356-364	4.3	2
23	912 - Schlafen 12 Promotes Human Intestinal Epithelial Differentiation via Serpin B12 Modulation of the Deubiquitylation of Transcription Factors Such as CDX2. <i>Gastroenterology</i> , <b>2018</b> , 154, S-180	13.3	2
22	A taxonomy of perioperative surgical learning: Trending resident skill acquisition. <i>American Journal of Surgery</i> , <b>2017</b> , 213, 260-267	2.7	1
21	When and How to Teach Residents to Operate. <i>JAMA Surgery</i> , <b>2017</b> , 152, 326	5.4	1
20	Optimization of Protein-Protein Interaction Measurements for Drug Discovery Using AFM Force Spectroscopy. <i>IEEE Nanotechnology Magazine</i> , <b>2019</b> , 18, 509-517	2.6	1
19	The Proliferative Response to p27 Down-Regulation in Estrogen Plus Progestin Hormonal Therapy is Lost in Breast Tumors. <i>Translational Oncology</i> , <b>2018</b> , 11, 518-527	4.9	1
18	Occult Spigelian Hernia Presenting as Inability to Complete Colon Cancer Screening in a Patient with a History of Rectal Cancer. <i>American Journal of Case Reports</i> , <b>2017</b> , 18, 1181-1184	1.3	1
17	Nanorobot enabled in situ sensing molecular interactions for drug discovery <b>2016</b> ,		1
16	Better Quality Metrics Could Illuminate Quality-Efficiency Tradeoffs in Operating Room Management. <i>Journal of Investigative Surgery</i> , <b>2020</b> , 33, 271-272	1.2	1
15	Microbiome diversity declines while distinct expansions of Th17, iNKT, and dendritic cell subpopulations emerge after anastomosis surgery. <i>Gut Pathogens</i> , <b>2021</b> , 13, 51	5.4	1
14	Lessons learned in evaluating system interdependencies using qualitative methods. <i>Evaluation Journal of Australasia</i> , 1035719X2110669	0.5	1
13	Vil-Cre specific Schlafen 3 knockout mice exhibit sex-specific differences in intestinal differentiation markers and Schlafen family members expression levels. <i>PLoS ONE</i> , <b>2021</b> , 16, e0259195	3.7	0
12	Reoperative laparoscopic rectal surgery: Another potential tool for the expert's toolbox. <i>American Journal of Surgery</i> , <b>2020</b> , 219, 894-895	2.7	0
11	Correlations Among Visit-to-Visit Blood Pressure Variability and Treatment With Antihypertensive Medication With Long-Term Adverse Outcomes in a Large Veteran Cohort. <i>American Journal of Hypertension</i> , <b>2021</b> , 34, 1092-1099	2.3	0
10	Preoperative and Intraoperative Blood Pressure Variability Independently Correlate with Outcomes. <i>Journal of Surgical Research</i> , <b>2021</b> , 266, 387-397	2.5	0
9	Design and implementation of a core EPA-based acting internship curriculum.. <i>Medical Teacher</i> , <b>2022</b> , 1-6	3	0
8	SLFN12 Over-expression Sensitizes Triple Negative Breast Cancer Cells to Chemotherapy Drugs and Radiotherapy.. <i>Cancer Genomics and Proteomics</i> , <b>2022</b> , 19, 328-338	3.3	0
7	Cancer Metastasis to the Peritoneum: Bad Luck or Dysregulated Biology?. <i>Journal of Investigative Surgery</i> , <b>2018</b> , 31, 357-358	1.2	



- 6 Questionable Assumptions Provided in Nonoperative Treatment of Appendicitis Survey-Reply. *JAMA Surgery*, **2018**, 153, 970 5.4
- 5 Perianal Crohn DiseaseInvited Critique. *Archives of Surgery*, **2002**, 137, 778
- 4 University of North Dakota School of Medicine and Health Sciences. *Academic Medicine*, **2020**, 95, S391-S395
- 3 Using the Homeland Security Exercise and Evaluation Program (HSEEP) Building Block Approach to Implement System Evaluation Theory (SET).. *American Journal of Evaluation*, **2021**, 42, 586-601 1.4
- 2 Day-to-day blood pressure variability predicts poor outcomes following percutaneous coronary intervention: A retrospective study. *World Journal of Cardiology*, **2022**, 14, 306-317 2.1
- 1 Day-to-day blood pressure variability predicts poor outcomes following percutaneous coronary intervention: A retrospective study. *World Journal of Cardiology*, **2022**, 14, 307-318 2.1