

Marc D Basson

List of Publications by Year in descending order

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116
papers

2,692
citations

147801

31
h-index

233421

45
g-index

117
all docs

117
docs citations

117
times ranked

3036
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure activates colon cancer cell adhesion by inside-out focal adhesion complex and actin cytoskeletal signaling. <i>Gastroenterology</i> , 2004, 126, 8-18.	1.3	186
2	The effects of mechanical forces on intestinal physiology and pathology. <i>Cellular Signalling</i> , 2009, 21, 1237-1244.	3.6	161
3	Characterizing Long COVID: Deep Phenotype of a Complex Condition. <i>EBioMedicine</i> , 2021, 74, 103722.	6.1	127
4	Intestinal mucosal atrophy and adaptation. <i>World Journal of Gastroenterology</i> , 2012, 18, 6357.	3.3	100
5	Amplitude-dependent modulation of brush border enzymes and proliferation by cyclic strain in human intestinal Caco-2 monolayers. , 1996, 168, 476-488.		66
6	Effects of increased ambient pressure on colon cancer cell adhesion. , 2000, 78, 47-61.		65
7	Regulation of the intestinal epithelial response to cyclic strain by extracellular matrix proteins. <i>FASEB Journal</i> , 2003, 17, 1-22.	0.5	65
8	Extracellular pressure stimulates macrophage phagocytosis by inhibiting a pathway involving FAK and ERK. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 286, C1358-C1366.	4.6	59
9	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> , 2011, 300, C657-C670.	4.6	56
10	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> , 2000, 278, G952-G966.	3.4	54
11	Transforming Growth Factor- β^2 Stimulates Intestinal Epithelial Focal Adhesion Kinase Synthesis via Smad- and p38-Dependent Mechanisms. <i>American Journal of Pathology</i> , 2008, 173, 385-399.	3.8	52
12	P300 inhibition enhances gemcitabine-induced apoptosis of pancreatic cancer. <i>Oncotarget</i> , 2016, 7, 51301-51310.	1.8	52
13	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> , 1998, 76, 41-46.	1.6	50
14	Collagen IV regulates Caco-2 migration and ERK activation via $\alpha_1\beta_1$ - and $\alpha_2\beta_1$ -integrin-dependent Src kinase activation. <i>American Journal of Physiology - Renal Physiology</i> , 2004, 286, G547-G557.	3.4	44
15	Role of RhoA and its effectors ROCK and mDia1 in the modulation of deformation-induced FAK, ERK, p38, and MLC motogenic signals in human Caco-2 intestinal epithelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2011, 301, C1224-C1238.	4.6	44
16	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> , 2003, 13, 135-146.	1.6	43
17	The Motogenic Effects of Cyclic Mechanical Strain on Intestinal Epithelial Monolayer Wound Closure Are Matrix Dependent. <i>Gastroenterology</i> , 2006, 131, 1179-1189.	1.3	42
18	Patient Preferences for Surgery or Antibiotics for the Treatment of Acute Appendicitis. <i>JAMA Surgery</i> , 2018, 153, 471.	4.3	42

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19	Coculture conditions alter endothelial modulation of TGF- β 1 activation and smooth muscle growth morphology. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 1998, 274, H642-H649.	3.2	40
20	Colchicine inhibits pressure-induced tumor cell implantation within surgical wounds and enhances tumor-free survival in mice. <i>Journal of Clinical Investigation</i> , 2008, 118, 3170-3180.	8.2	40
21	Impact of Objectively Assessing Surgeons'™ Teaching on Effective Perioperative Instructional Behaviors. <i>JAMA Surgery</i> , 2013, 148, 915.	4.3	39
22	Matrix-specific effect of endothelial control of smooth muscle cell migration. <i>Journal of Vascular Surgery</i> , 1996, 24, 51-57.	1.1	38
23	Strain induces Caco-2 intestinal epithelial proliferation and differentiation via PKC and tyrosine kinase signals. <i>American Journal of Physiology - Renal Physiology</i> , 1998, 275, G534-G541.	3.4	38
24	The role of the cytoskeleton in differentially regulating pressure-mediated effects on malignant colonocyte focal adhesion signaling and cell adhesion. <i>Carcinogenesis</i> , 2005, 26, 1687-1697.	2.8	38
25	Smad3 knockout mice exhibit impaired intestinal mucosal healing. <i>Laboratory Investigation</i> , 2008, 88, 1101-1109.	3.7	38
26	PTK6 Promotes Cancer Migration and Invasion in Pancreatic Cancer Cells Dependent on ERK Signaling. <i>PLoS ONE</i> , 2014, 9, e96060.	2.5	38
27	Identification and comparative analysis of human colonocyte short-chain fatty acid response genes. <i>Journal of Gastrointestinal Surgery</i> , 2000, 4, 501-512.	1.7	36
28	Differential Modulation of Human (Caco-2) Colon Cancer Cell Line Phenotype by Short Chain Fatty Acids. <i>Experimental Biology and Medicine</i> , 1998, 217, 476-483.	2.4	35
29	Paxillin modulates squamous cancer cell adhesion and is important in pressure-augmented adhesion. <i>Journal of Cellular Biochemistry</i> , 2006, 98, 1507-1516.	2.6	35
30	Increased extracellular pressure stimulates tumor proliferation by a mechanosensitive calcium channel and PKC α . <i>Molecular Oncology</i> , 2015, 9, 513-526.	4.6	35
31	Basal nutrition promotes human intestinal epithelial (Caco-2) proliferation, brush border enzyme activity, and motility. <i>Critical Care Medicine</i> , 1997, 25, 159-165.	0.9	33
32	Colon cancer cell adhesion in response to Src kinase activation and actin-cytoskeleton by non-laminar shear stress. <i>Journal of Cellular Biochemistry</i> , 2004, 92, 361-371.	2.6	32
33	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> , 2008, 294, C1350-C1361.	4.6	32
34	Strain-induced Proliferation Requires the Phosphatidylinositol 3-Kinase/AKT/Glycogen Synthase Kinase Pathway. <i>Journal of Biological Chemistry</i> , 2009, 284, 2001-2011.	3.4	31
35	Evaluation of operating room suite efficiency in the Veterans Health Administration system by using data-envelopment analysis. <i>American Journal of Surgery</i> , 2006, 192, 649-656.	1.8	29
36	Nef-M1, a peptide antagonist of CXCR4, inhibits tumor angiogenesis and epithelial-to-mesenchymal transition in colon and breast cancers. <i>Oncotarget</i> , 2015, 6, 27763-27777.	1.8	28

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37	Prehospital trauma care education for first responders in India. <i>Journal of Surgical Research</i> , 2015, 197, 331-338.	1.6	27
38	Schlafen 12 Interaction with SerpinB12 and Deubiquitylases Drives Human Enterocyte Differentiation. <i>Cellular Physiology and Biochemistry</i> , 2018, 48, 1274-1290.	1.6	27
39	<i>Squamous Cell Carcinoma Complicating Chronic Suppurative Hydradenitis</i> . <i>American Surgeon</i> , 2011, 77, 1449-1453.	0.8	26
40	Schlafen 3 induction by cyclic strain regulates intestinal epithelial differentiation. <i>American Journal of Physiology - Renal Physiology</i> , 2010, 298, G994-G1003.	3.4	25
41	Schlafen 12 expression modulates prostate cancer cell differentiation. <i>Journal of Surgical Research</i> , 2014, 190, 177-184.	1.6	24
42	Focal adhesion kinase protein levels in gut epithelial motility. <i>American Journal of Physiology - Renal Physiology</i> , 2006, 291, G491-G499.	3.4	23
43	Role of ERK/mTOR signaling in TGF β ² -modulated focal adhesion kinase mRNA stability and protein synthesis in cultured rat IEC-6 intestinal epithelial cells. <i>Cell and Tissue Research</i> , 2009, 336, 213-223.	2.9	23
44	Evolving management of colorectal cancer. <i>World Journal of Gastroenterology</i> , 2008, 14, 3956.	3.3	22
45	Primary care visits increase utilization of evidence-based preventative health measures. <i>BMC Family Practice</i> , 2020, 21, 151.	2.9	21
46	Delineating the signals by which repetitive deformation stimulates intestinal epithelial migration across fibronectin. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, G876-G885.	3.4	20
47	Visit-to-Visit Variability of Blood Pressure Is Associated With Hospitalization and Mortality in an Unselected Adult Population. <i>American Journal of Hypertension</i> , 2018, 31, 1113-1119.	2.0	20
48	Small molecule FAK activator promotes human intestinal epithelial monolayer wound closure and mouse ulcer healing. <i>Scientific Reports</i> , 2019, 9, 14669.	3.3	20
49	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> , 2014, 1843, 3029-3037.	4.1	19
50	Cytoskeletal signaling by way of β -actinin-1 mediates ERK1/2 activation by repetitive deformation in human Caco2 intestinal epithelial cells. <i>American Journal of Surgery</i> , 2007, 194, 618-622.	1.8	17
51	PTK6 Potentiates Gemcitabine-Induced Apoptosis by Prolonging S-phase and Enhancing DNA Damage in Pancreatic Cancer. <i>Molecular Cancer Research</i> , 2015, 13, 1174-1184.	3.4	17
52	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> , 2019, 14, e0219267.	2.5	17
53	Matrix-specific FAK and MAPK reorganization during Caco-2 cell motility. <i>Microscopy Research and Technique</i> , 2000, 51, 191-203.	2.2	16
54	TGF- β ² 1 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> , 2009, 1789, 88-98.	1.9	16

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55	Regulation of Epithelial Differentiation in Rat Intestine by Intraluminal Delivery of an Adenoviral Vector or Silencing RNA Coding for Schlafen 3. PLoS ONE, 2013, 8, e79745.	2.5	16
56	Do female surgeons learn or teach differently?. American Journal of Surgery, 2017, 213, 282-287.	1.8	16
57	Loss of MLK3 signaling impedes ulcer healing by modulating MAPK signaling in mouse intestinal mucosa. American Journal of Physiology - Renal Physiology, 2012, 303, C951-C960.	3.4	15
58	Nanomagnetic levitation three-dimensional cultures of breast and colorectal cancers. Journal of Surgical Research, 2015, 194, 319-326.	1.6	15
59	Supraphysiologic extracellular pressure inhibits intestinal epithelial wound healing independently of luminal nutrient flow. American Journal of Surgery, 2008, 196, 683-689.	1.8	14
60	Schlafen 3 changes during rat intestinal maturation. American Journal of Surgery, 2012, 204, 598-601.	1.8	14
61	Schlafens: Emerging Proteins in Cancer Cell Biology. Cells, 2021, 10, 2238.	4.1	14
62	The Correlation Between the Expression of Differentiation Markers in Rat Small Intestinal Mucosa and the Transcript Levels of Schlafen 3. JAMA Surgery, 2013, 148, 1013.	4.3	13
63	Glucagonlike Peptide 2 Analogue Teduglutide. JAMA Surgery, 2013, 148, 1037.	4.3	12
64	Alcohol Disrupts Human Liver Stem/Progenitor Cell Proliferation and Differentiation. Journal of Stem Cell Research & Therapy, 2014, 04, .	0.3	12
65	Systolic and Diastolic Blood Pressure Variability as Risk Factors for Adverse Events After Coronary Artery Bypass Grafting. JAMA Surgery, 2019, 154, 92.	4.3	11
66	Comprehensive Multicenter Graduate Surgical Education Initiative Incorporating Entrustable Professional Activities, Continuous Quality Improvement Cycles, and a Web-Based Platform to Enhance Teaching and Learning. Journal of the American College of Surgeons, 2018, 227, 64-76.	0.5	10
67	Association of Colonoscopy With Risk of Appendicitis. JAMA Surgery, 2018, 153, 90.	4.3	10
68	Schlafen 12 Is Prognostically Favorable and Reduces C-Myc and Proliferation in Lung Adenocarcinoma but Not in Lung Squamous Cell Carcinoma. Cancers, 2020, 12, 2738.	3.7	10
69	Functional consequence of the p53 codon 72 polymorphism in colorectal cancer. Oncotarget, 2017, 8, 76574-76586.	1.8	10
70	Schlafen 12 mediates the effects of butyrate and repetitive mechanical deformation on intestinal epithelial differentiation in human Caco-2 intestinal epithelial cells. Human Cell, 2019, 32, 240-250.	2.7	9
71	ZINC40099027 activates human focal adhesion kinase by accelerating the enzymatic activity of the FAK kinase domain. Pharmacology Research and Perspectives, 2021, 9, e00737.	2.4	9
72	ZINC40099027 Promotes Gastric Mucosal Repair in Ongoing Aspirin-Associated Gastric Injury by Activating Focal Adhesion Kinase. Cells, 2021, 10, 908.	4.1	9

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73	Gut homeostasis, injury, and healing: New therapeutic targets. <i>World Journal of Gastroenterology</i> , 2022, 28, 1725-1750.	3.3	9
74	Inside-out signaling through FAKâ€“integrin axis may regulate circulating cancer cell metastatic adhesion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19795-19796.	7.1	8
75	Loss of Slfn3 induces a sex-dependent repair vulnerability after 50% bowel resection. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 320, G136-G152.	3.4	8
76	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> , 2019, 53, 999-1014.	1.6	8
77	Measurement of Cationic and Intracellular Modulation of Integrin Binding Affinity by AFM-Based Nanorobot. <i>Biophysical Journal</i> , 2013, 105, 40-47.	0.5	7
78	Perioperative self-reflection among surgical residents. <i>American Journal of Surgery</i> , 2017, 214, 564-570.	1.8	6
79	Lessons learned in evaluating the infrastructure of a Centre for Translational Research. <i>Evaluation Journal of Australasia</i> , 2020, 20, 6-22.	0.6	6
80	Preoperative outpatient blood pressure variability predicts postoperative mortality, readmission and morbidity after surgery. <i>American Journal of Surgery</i> , 2020, 220, 1083-1092.	1.8	6
81	Discovery of Novel Small-Molecule FAK Activators Promoting Mucosal Healing. <i>ACS Medicinal Chemistry Letters</i> , 2021, 12, 356-364.	2.8	6
82	Inhibition of pressure-activated cancer cell adhesion by FAK-derived peptides. <i>Oncotarget</i> , 2017, 8, 98051-98067.	1.8	6
83	Loss of Schlafen3 influences the expression levels of Schlafen family members in ileum, thymus, and spleen tissue. <i>PeerJ</i> , 2020, 8, e8461.	2.0	6
84	SLFN12 Over-expression Sensitizes Triple Negative Breast Cancer Cells to Chemotherapy Drugs and Radiotherapy. <i>Cancer Genomics and Proteomics</i> , 2022, 19, 328-338.	2.0	6
85	Influence of defunctionalization and mechanical forces on intestinal epithelial wound healing. <i>American Journal of Physiology - Renal Physiology</i> , 2012, 303, G1134-G1143.	3.4	5
86	Schlafen 3 Mediates the Differentiating Effects of Cdx2 in Rat IEC-Cdx2L1 Enterocytes. <i>Journal of Investigative Surgery</i> , 2015, 28, 202-207.	1.3	5
87	What Skills Do Clinical Evaluators Value Most In Oral Case Presentations?. <i>Teaching and Learning in Medicine</i> , 2019, 31, 129-135.	2.1	5
88	ZINC4085554 inhibits cancer cell adhesion by interfering with the interaction of Akt1 and FAK. <i>Oncology Letters</i> , 2019, 17, 5251-5260.	1.8	5
89	Oral Antibiotics for Colon Surgery. <i>JAMA Surgery</i> , 2018, 153, 121.	4.3	4
90	Optimization of Proteinâ€“Protein Interaction Measurements for Drug Discovery Using AFM Force Spectroscopy. <i>IEEE Nanotechnology Magazine</i> , 2019, 18, 509-517.	2.0	4

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91	Microbiome diversity declines while distinct expansions of Th17, iNKT, and dendritic cell subpopulations emerge after anastomosis surgery. Gut Pathogens, 2021, 13, 51.	3.4	4
92	Vil-Cre specific Schlafen 3 knockout mice exhibit sex-specific differences in intestinal differentiation markers and Schlafen family members expression levels. PLoS ONE, 2021, 16, e0259195.	2.5	4
93	Skin perfusion responses under normal and combined loadings: Comparisons between legs with venous stasis ulcers and healthy legs. Clinical Biomechanics, 2015, 30, 1218-1224.	1.2	3
94	Re-envisioning undergraduate surgical education during and after the COVID-19 pandemic. American Journal of Surgery, 2021, 222, 246-247.	1.8	3
95	Preoperative and Intraoperative Blood Pressure Variability Independently Correlate with Outcomes. Journal of Surgical Research, 2021, 266, 387-397.	1.6	3
96	Lessons learned in evaluating system interdependencies using qualitative methods. Evaluation Journal of Australasia, 2022, 22, 108-125.	0.6	3
97	The Role of the Investigative Surgeon. JAMA Surgery, 2014, 149, 1188.	4.3	2
98	Nanorobot enabled in situ sensing molecular interactions for drug discovery. , 2016, , .		2
99	A taxonomy of perioperative surgical learning: Trending resident skill acquisition. American Journal of Surgery, 2017, 213, 260-267.	1.8	2
100	912 - Schlafen 12 Promotes Human Intestinal Epithelial Differentiation via Serpin B12 Modulation of the Deubiquitylation of Transcription Factors Such as CDX2. Gastroenterology, 2018, 154, S-180.	1.3	2
101	Medical resources are scarce, but theories about their allocation are not. Surgery, 2020, 168, 392-393.	1.9	2
102	Correlations among visit to visit blood pressure variability and treatment with antihypertensive medication with long term adverse outcomes in a large veteran cohort. American Journal of Hypertension, 2021, 34, 1092-1099.	2.0	2
103	Using the Homeland Security Exercise and Evaluation Program (HSEEP) Building Block Approach to Implement System Evaluation Theory (SET). American Journal of Evaluation, 2021, 42, 109821402098661.	2.1	2
104	When and How to Teach Residents to Operate. JAMA Surgery, 2017, 152, 326.	4.3	1
105	The Proliferative Response to p27 Down-Regulation in Estrogen Plus Progestin Hormonal Therapy is Lost in Breast Tumors. Translational Oncology, 2018, 11, 518-527.	3.7	1
106	Better Quality Metrics Could Illuminate Quality-Efficiency Tradeoffs in Operating Room Management. Journal of Investigative Surgery, 2020, 33, 271-272.	1.3	1
107	Reoperative laparoscopic rectal surgery: Another potential tool for the expert's toolbox. American Journal of Surgery, 2020, 219, 894-895.	1.8	1
108	Occult Spigelian Hernia Presenting as Inability to Complete Colon Cancer Screening in a Patient with a History of Rectal Cancer. American Journal of Case Reports, 2017, 18, 1181-1184.	0.8	1

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109	Design and implementation of a core EPA-based acting internship curriculum. <i>Medical Teacher</i> , 2022, 44, 922-927.	1.8	1
110	Perianal Crohn Disease—Invited Critique. <i>Archives of Surgery</i> , 2002, 137, 778.	2.2	0
111	In Vivo tumor interstitial fluid pressure measurement using static micro force sensor and mechanical tumor model. , 2014, , .		0
112	Cancer Metastasis to the Peritoneum: Bad Luck or Dysregulated Biology?. <i>Journal of Investigative Surgery</i> , 2018, 31, 357-358.	1.3	0
113	Questionable Assumptions Provided in Nonoperative Treatment of Appendicitis Survey—Reply. <i>JAMA Surgery</i> , 2018, 153, 970.	4.3	0
114	University of North Dakota School of Medicine and Health Sciences. <i>Academic Medicine</i> , 2020, 95, S391-S395.	1.6	0
115	Day-to-day blood pressure variability predicts poor outcomes following percutaneous coronary intervention: A retrospective study. <i>World Journal of Cardiology</i> , 2022, 14, 306-317.	1.5	0
116	Day-to-day blood pressure variability predicts poor outcomes following percutaneous coronary intervention: A retrospective study. <i>World Journal of Cardiology</i> , 2022, 14, 307-318.	1.5	0