

# Mark R Hellmich

## 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.

59  
papers

2,921  
citations

31  
h-index

53  
g-index

61  
ext. papers

3,334  
ext. citations

5.2  
avg, IF

5.07  
L-index

#	Paper	IF	Citations
59	Tumor-derived hydrogen sulfide, produced by cystathionine- $\beta$ -synthase, stimulates bioenergetics, cell proliferation, and angiogenesis in colon cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 12474-9	11.5	441
58	The therapeutic potential of cystathionine $\beta$ -synthetase/hydrogen sulfide inhibition in cancer. <i>Antioxidants and Redox Signaling</i> , <b>2015</b> , 22, 424-48	8.4	142
57	Hydrogen Sulfide and Cancer. <i>Handbook of Experimental Pharmacology</i> , <b>2015</b> , 230, 233-41	3.2	126
56	Human colorectal cancers express a constitutively active cholecystokinin-B/gastrin receptor that stimulates cell growth. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 32122-8	5.4	114
55	Butyrate-induced differentiation of Caco-2 cells is associated with apoptosis and early induction of p21Waf1/Cip1 and p27Kip1. <i>Surgery</i> , <b>1998</b> , 124, 161-170	3.6	102
54	Regulation of mitochondrial bioenergetic function by hydrogen sulfide. Part II. Pathophysiological and therapeutic aspects. <i>British Journal of Pharmacology</i> , <b>2014</b> , 171, 2123-46	8.6	98
53	Activator protein-1 transcription factor mediates bombesin-stimulated cyclooxygenase-2 expression in intestinal epithelial cells. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 22941-7	5.4	98
52	Role of gastrointestinal hormones in the proliferation of normal and neoplastic tissues. <i>Endocrine Reviews</i> , <b>2003</b> , 24, 571-99	27.2	96
51	Cyclooxygenase-2 gene disruption attenuates the severity of acute pancreatitis and pancreatitis-associated lung injury. <i>Gastroenterology</i> , <b>2002</b> , 123, 1311-22	13.3	89
50	Bombesin stimulates nuclear factor kappa B activation and expression of proangiogenic factors in prostate cancer cells. <i>Cancer Research</i> , <b>2003</b> , 63, 3495-502	10.1	89
49	Regulation of TRAIL expression by the phosphatidylinositol 3-kinase/Akt/GSK-3 pathway in human colon cancer cells. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 36602-10	5.4	88
48	3302 Student Leadership Training effects on team dynamics and collaborative work in high-pressure, interprofessional team environments. <i>Journal of Clinical and Translational Science</i> , <b>2019</b> , 3, 74-74	0.4	78
47	Gastrin stimulates cyclooxygenase-2 expression in intestinal epithelial cells through multiple signaling pathways. Evidence for involvement of ERK5 kinase and transactivation of the epidermal growth factor receptor. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 48755-63	5.4	78
46	Glucagon-like peptide 2 is a potent growth factor for small intestine and colon. <i>Journal of Gastrointestinal Surgery</i> , <b>1998</b> , 2, 146-50	3.3	74
45	Effect of S-adenosyl-L-methionine (SAM), an allosteric activator of cystathionine- $\beta$ -synthase (CBS) on colorectal cancer cell proliferation and bioenergetics in vitro. <i>Nitric Oxide - Biology and Chemistry</i> , <b>2014</b> , 41, 146-56	5	68
44	Role of endogenous and exogenous nitric oxide, carbon monoxide and hydrogen sulfide in HCT116 colon cancer cell proliferation. <i>Biochemical Pharmacology</i> , <b>2018</b> , 149, 186-204	6	66
43	Upregulation of Cystathionine- $\beta$ -Synthase in Colonic Epithelia Reprograms Metabolism and Promotes Carcinogenesis. <i>Cancer Research</i> , <b>2017</b> , 77, 5741-5754	10.1	62

42	Inhibition of hydrogen sulfide biosynthesis sensitizes lung adenocarcinoma to chemotherapeutic drugs by inhibiting mitochondrial DNA repair and suppressing cellular bioenergetics. <i>Scientific Reports</i> , <b>2016</b> , 6, 36125	4.9	61
41	HS-induced S-sulfhydration of lactate dehydrogenase a (LDHA) stimulates cellular bioenergetics in HCT116 colon cancer cells. <i>Biochemical Pharmacology</i> , <b>2017</b> , 136, 86-98	6	49
40	Drug resistance induces the upregulation of HS-producing enzymes in HCT116 colon cancer cells. <i>Biochemical Pharmacology</i> , <b>2018</b> , 149, 174-185	6	49
39	Role of multidrug resistance P-glycoprotein in the secretion of aldosterone by human adrenal NCI-H295 cells. <i>American Journal of Physiology - Cell Physiology</i> , <b>2000</b> , 278, C1256-65	5.4	48
38	Multiple protein kinase pathways are involved in gastrin-releasing peptide receptor-regulated secretion. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 23901-9	5.4	47
37	Screening of a composite library of clinically used drugs and well-characterized pharmacological compounds for cystathionine β-synthase inhibition identifies benserazide as a drug potentially suitable for repurposing for the experimental therapy of colon cancer. <i>Pharmacological Research</i> , <b>2016</b> , 113, 18-27	10.2	45
36	Signaling mechanisms regulating bombesin-mediated AP-1 gene induction in the human gastric cancer SIIA. <i>American Journal of Physiology - Cell Physiology</i> , <b>2000</b> , 279, C326-34	5.4	43
35	Cystathionine-beta-synthase inhibition for colon cancer: Enhancement of the efficacy of aminooxyacetic acid via the prodrug approach. <i>Molecular Medicine</i> , <b>2016</b> , 22, 361-379	6.2	43
34	Consensus Molecular Subtypes of Colorectal Cancer and their Clinical Implications <b>2017</b> , 3, 105-111		40
33	Gastrin, inflammation, and carcinogenesis. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , <b>2010</b> , 17, 33-9	4	36
32	Targeting of a CCK(2) receptor splice variant with (111)In-labelled cholecystokinin-8 (CCK8) and (111)In-labelled minigastrin. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2008</b> , 35, 386-92	8.8	35
31	Pharmacological inhibition and genetic knockdown of exchange protein directly activated by cAMP 1 reduce pancreatic cancer metastasis in vivo. <i>Molecular Pharmacology</i> , <b>2015</b> , 87, 142-9	4.3	34
30	Inhibition of neurotensin-induced pancreatic carcinoma growth by a nonpeptide neurotensin receptor antagonist, SR48692. <i>Cancer</i> , <b>1997</b> , 79, 1787-93	6.4	34
29	Gastrin-releasing peptide receptor in breast cancer mediates cellular migration and interleukin-8 expression. <i>Journal of Surgical Research</i> , <b>2009</b> , 156, 26-31	2.5	31
28	Demonstration of functional oxytocin receptors in human breast Hs578T cells and their up-regulation through a protein kinase C-dependent pathway. <i>Endocrinology</i> , <b>1999</b> , 140, 2258-67	4.8	31
27	Apigenin inhibits pancreatic stellate cell activity in pancreatitis. <i>Journal of Surgical Research</i> , <b>2015</b> , 196, 8-16	2.5	30
26	Agonist-independent activation of Src tyrosine kinase by a cholecystokinin-2 (CCK2) receptor splice variant. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 40400-4	5.4	30
25	Gremlin is a key pro-fibrogenic factor in chronic pancreatitis. <i>Journal of Molecular Medicine</i> , <b>2015</b> , 93, 1085-1093	5.5	29

24	Design, synthesis, and characterization of novel apigenin analogues that suppress pancreatic stellate cell proliferation in vitro and associated pancreatic fibrosis in vivo. <i>Bioorganic and Medicinal Chemistry</i> , <b>2014</b> , 22, 3393-404	3.4	28
23	3-Mercaptopyruvate sulfurtransferase supports endothelial cell angiogenesis and bioenergetics. <i>British Journal of Pharmacology</i> , <b>2020</b> , 177, 866-883	8.6	26
22	Overexpression of Evi-1 oncoprotein represses TGF- $\beta$ signaling in colorectal cancer. <i>Molecular Carcinogenesis</i> , <b>2013</b> , 52, 255-264	5	25
21	Bone morphogenetic protein signaling protects against cerulein-induced pancreatic fibrosis. <i>PLoS ONE</i> , <b>2014</b> , 9, e89114	3.7	23
20	Patient-derived Xenografts from Colorectal Carcinoma: A Temporal and Hierarchical Study of Murine Stromal Cell Replacement. <i>Anticancer Research</i> , <b>2017</b> , 37, 3405-3412	2.3	22
19	Gastrointestinal hormone receptors in primary human colorectal carcinomas. <i>Journal of Surgical Research</i> , <b>2005</b> , 129, 313-21	2.5	18
18	SRC regulates constitutive internalization and rapid resensitization of a cholecystokinin 2 receptor splice variant. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 33368-73	5.4	15
17	Colorectal Cancer-Associated Fibroblasts are Genotypically Distinct. <i>Current Cancer Therapy Reviews</i> , <b>2014</b> , 10, 97-218	0.4	15
16	CCK2 receptor expression transforms non-tumorigenic human NCM356 colonic epithelial cells into tumor forming cells. <i>International Journal of Cancer</i> , <b>2010</b> , 126, 864-75	7.5	13
15	Enterotrophic effects of glucagon-like peptide 2 are enhanced by neurotensin. <i>Journal of Gastrointestinal Surgery</i> , <b>1999</b> , 3, 432-39; discussion 439-40	3.3	11
14	Distribution and Localization of a Novel Cholecystokinin-Releasing Factor in the Rat Gastrointestinal Tract		10
13	Regulation of bombesin-stimulated cyclooxygenase-2 expression in prostate cancer cells. <i>BMC Molecular Biology</i> , <b>2011</b> , 12, 29	4.5	8
12	Raf-1 kinase inhibitory protein (RKIP) mediates ethanol-induced sensitization of secretagogue signaling in pancreatic acinar cells. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 33377-88	5.4	8
11	Isolation of CD 90+ Fibroblast/Myofibroblasts from Human Frozen Gastrointestinal Specimens. <i>Journal of Visualized Experiments</i> , <b>2016</b> , e53691	1.6	7
10	Epidermal growth factor potentiates cholecystokinin/gastrin receptor-mediated Ca <sup>2+</sup> release by activation of mitogen-activated protein kinases. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 1853-60	5.4	7
9	Bombesin enhances TGF-beta growth inhibitory effect through apoptosis induction in intestinal epithelial cells. <i>Regulatory Peptides</i> , <b>2009</b> , 158, 26-31		5
8	Synergistic regulation of COX-2 expression by bombesin and transforming growth factor-beta. <i>Digestive Diseases and Sciences</i> , <b>2008</b> , 53, 2045-52	4	5
7	Efficacy of Novel Aminoxyacetic Acid Prodrugs in Colon Cancer Models: Towards Clinical Translation of the Cystathionine $\beta$ -Synthase Inhibition Concept. <i>Biomolecules</i> , <b>2021</b> , 11,	5.9	4

6	Integration of leadership training for graduate and medical students engaged in translational biomedical research: Examining self-efficacy and self-insight. <i>Journal of Clinical and Translational Science</i> , <b>2018</b> , 2, 48-52	0.4	3
5	A functional in vitro model to examine signaling mechanisms in gastrin-mediated human cell growth. <i>Journal of Gastrointestinal Surgery</i> , <b>1997</b> , 1, 69-76; discussion 76-7	3.3	2
4	Gastrointestinal Peptides <b>2012</b> , 115-154		1
3	Translational Research Track for Medical Students: Developing Interprofessional Collaborative Competencies for Translational Research. <i>Medical Science Educator</i> , <b>2011</b> , 21, 63-66	0.7	1
2	4160 Evaluating Student Team Dynamics. <i>Journal of Clinical and Translational Science</i> , <b>2020</b> , 4, 61-61	0.4	
1	Regulation of Gastrointestinal Normal Cell Growth <b>2006</b> , 435-458		