Nicola J Brown

List of Publications by Year
in descending order

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Version: 2024-02-01

115 papers	6,971 citations	76031 42 h-index	68831 81 g-index
116 all docs	116 docs citations	116 times ranked	11889 citing authors

#	Article	IF	Citations
1	Changes in dynamics of tumor/endothelial cell adhesive interactions depending on endothelial cell growth state and elastic properties. PLoS ONE, 2022, 17, e0269552.	1.1	3
2	Osteoblast-Derived Paracrine and Juxtacrine Signals Protect Disseminated Breast Cancer Cells from Stress. Cancers, 2021, 13, 1366.	1.7	6
3	Atomic force microscopy reveals the mechanical properties of breast cancer bone metastases. Nanoscale, 2021, 13, 18237-18246.	2.8	8
4	Use of Electrical Impedance Spectroscopy for Intraoperative Tissue Differentiation During Thyroid and Parathyroid Surgery. World Journal of Surgery, 2020, 44, 479-485.	0.8	12
5	Mechanical Heterogeneity in the Bone Microenvironment as Characterized by Atomic Force Microscopy. Biophysical Journal, 2020, 119, 502-513.	0.2	32
6	Bone marrow osteoprogenitors are depleted whereas osteoblasts are expanded independent of the osteogenic vasculature in response to zoledronic acid. FASEB Journal, 2019, 33, 12768-12779.	0.2	6
7	The bone metastasis niche in breast cancer: potential overlap with the haematopoietic stem cell niche in vivo. Journal of Bone Oncology, 2019, 17, 100244.	1.0	52
8	The breast tumor microenvironment: role in cancer development, progression and response to therapy. Expert Review of Molecular Diagnostics, 2018, 18, 227-243.	1.5	115
9	Use of methylene blue and near-infrared fluorescence in thyroid and parathyroid surgery. Langenbeck's Archives of Surgery, 2018, 403, 111-118.	0.8	64
10	Parathyroid Hormone (PTH) Increases Skeletal Tumour Growth and Alters Tumour Distribution in an In Vivo Model of Breast Cancer. International Journal of Molecular Sciences, 2018, 19, 2920.	1.8	10
11	Temporal and molecular dynamics of human metastatic breast carcinoma cell adhesive interactions with human bone marrow endothelium analyzed by single-cell force spectroscopy. PLoS ONE, 2018, 13, e0204418.	1.1	9
12	Influence of washing and quenching in profiling the metabolome of adherent mammalian cells: a case study with the metastatic breast cancer cell line MDA-MB-231. Analyst, The, 2017, 142, 2038-2049.	1.7	35
13	Zoledronic acid alters hematopoiesis and generates breast tumor-suppressive bone marrow cells. Breast Cancer Research, 2017, 19, 23.	2.2	38
14	Vascular patterning of subcutaneous mouse fibrosarcomas expressing individual VEGF isoforms can be differentiated using angiographic optical coherence tomography. Biomedical Optics Express, 2017, 8, 4551.	1.5	10
15	Electrical Impedance Spectroscopy to Aid Parathyroid Identification and Preservation in Central Compartment Neck Surgery. Surgical Innovation, 2016, 23, 176-182.	0.4	8
16	Vascular Smooth Muscle Cell Stiffness and Adhesion to Collagen I Modified by Vasoactive Agonists. PLoS ONE, 2015, 10, e0119533.	1.1	39
17	Rapid modification of the bone microenvironment following short-term treatment with Cabozantinib in vivo. Bone, 2015, 81, 581-592.	1.4	33
18	Atorvastatin reduces endotoxin-induced microvascular inflammation via NOSII. Naunyn-Schmiedeberg's Archives of Pharmacology, 2015, 388, 557-564.	1.4	8

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19	The relationship between semaphorin 3C and microvessel density in the progression of breast and oral neoplasia. Experimental and Molecular Pathology, 2015, 99, 19-24.	0.9	22
20	Cell line dependence of metabolite leakage in metabolome analyses of adherent normal and cancer cell lines. Metabolomics, 2015, 11, 1743-1755.	1.4	26
21	Hypoxia and angiogenesis: from primary tumor to bone metastasis. , 2015, , 177-189.		1
22	Prostate cancer cells home to bone using a novel in vivo model: Modulation by the integrin antagonist GLPG0187. International Journal of Cancer, 2015, 136, 1731-1740.	2.3	10
23	Vascular-targeted agents for the treatment of angiosarcoma. Cancer Chemotherapy and Pharmacology, 2014, 73, 259-270.	1.1	21
24	A peptide derived from TIMP-3 inhibits multiple angiogenic growth factor receptors and tumour growth and inflammatory arthritis in mice. Angiogenesis, 2014, 17, 207-219.	3.7	32
25	Angiogenic growth factor expression in benign and malignant vascular tumours. Experimental and Molecular Pathology, 2014, 97, 148-153.	0.9	24
26	Angiopoietin-1 regulates microvascular reactivity and protects the microcirculation during acute endothelial dysfunction: Role of eNOS and VE-cadherin. Pharmacological Research, 2014, 80, 43-51.	3.1	31
27	Near infrared fluorescence imaging of rabbit thyroid and parathyroid glands. Journal of Surgical Research, 2014, 192, 480-486.	0.8	21
28	Cell confluency modulates cortical stiffness of human bone marrow endothelial cells (696.3). FASEB Journal, 2014, 28, 696.3.	0.2	0
29	Critical research gaps and translational priorities for the successful prevention and treatment of breast cancer. Breast Cancer Research, 2013, 15, R92.	2.2	320
30	Neuropilinâ€1 and neuropilinâ€2 expression in the adenomaâ€“carcinoma sequence of colorectal cancer. Histopathology, 2013, 62, 908-915.	1.6	31
31	Selective measurement and manipulation of adhesion forces between cancer cells and bone marrow endothelial cells using atomic force microscopy. Nanomedicine, 2013, 8, 921-934.	1.7	17
32	The Nociceptin/Orphanin FQ Receptor Antagonist UFP-101 Reduces Microvascular Inflammation to Lipopolysaccharide In Vivo. PLoS ONE, 2013, 8, e74943.	1.1	12
33	Lactate Dehydrogenase-B Is Silenced by Promoter Methylation in a High Frequency of Human Breast Cancers. PLoS ONE, 2013, 8, e57697.	1.1	45
34	Analysis of circulating angiogenic biomarkers from patients in two phase III trials in lung cancer of chemotherapy alone or chemotherapy and thalidomide. British Journal of Cancer, 2012, 106, 1153-1159.	2.9	28
35	Evaluation of Fluorescent Plasma Markers for in vivo Microscopy of the Microcirculation. Journal of Vascular Research, 2012, 49, 132-143.	0.6	8
36	Quantum Dot- Conjugated Anti-GRP78 scFv Inhibits Cancer Growth in Mice. Molecules, 2012, 17, 796-808.	1.7	38

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37	Angiopoietin-1 variant reduces LPS-induced microvascular dysfunction in a murine model of sepsis. Critical Care, 2012, 16, R182.	2.5	57
38	Combination therapy inhibits development and progression of mammary tumours in immunocompetent mice. Breast Cancer Research and Treatment, 2012, 133, 523-536.	1.1	26
39	ROCK induced inflammation of the microcirculation during endotoxemia mediated by nitric oxide synthase. Microvascular Research, 2011, 81, 281-288.	1.1	38
40	Transforming Growth Factor-? and Endoglin Signaling Orchestrate Wound Healing. Frontiers in Physiology, 2011, 2, 89.	1.3	91
41	Blood vessel characterization in human dermal wound repair and scarring. British Journal of Dermatology, 2011, 165, 221-224.	1.4	9
42	Angiopoietins 1 and 2 and Tieâ€2 receptor expression in human ductal breast disease. Histopathology, 2011, 59, 256-263.	1.6	9
43	Expression of class 3 semaphorins and their receptors in human breast neoplasia. Histopathology, 2011, 59, 274-282.	1.6	48
44	Anti-tissue factor short hairpin RNA inhibits breast cancer growth in vivo. Breast Cancer Research and Treatment, 2011, 128, 691-701.	1.1	8
45	Use of Macrophages to Target Therapeutic Adenovirus to Human Prostate Tumors. Cancer Research, 2011, 71, 1805-1815.	0.4	111
46	Constriction of rat extra-splenic veins to lipopolysaccharide involves endothelin-1. Naunyn-Schmiedeberg's Archives of Pharmacology, 2010, 381, 555-562.	1.4	2
47	The role of nitric oxide in the treatment of tumours with aminolaevulinic acid-induced photodynamic therapy. Journal of Photochemistry and Photobiology B: Biology, 2010, 101, 224-232.	1.7	29
48	Angiopoietin-1, angiopoietin-2 and Tie-2 receptor expression in human dermal wound repair and scarring. British Journal of Dermatology, 2010, 163, 920-927.	1.4	50
49	Microvascular Endothelial Cell Responses in vitro and in vivo: Modulation by Zoledronic Acid and Paclitaxel?. Journal of Vascular Research, 2010, 47, 481-493.	0.6	41
50	Angiosarcoma. Lancet Oncology, The, 2010, 11, 983-991.	5.1	741
51	Internalization and biodistribution of polymersomes into oral squamous cell carcinoma cells in vitro and in vivo. Nanomedicine, 2010, 5, 1025-1036.	1.7	49
52	Macromolecular Leak from Extrasplenic Lymphatics during Endotoxemia. Lymphatic Research and Biology, 2009, 7, 131-137.	0.5	12
53	Angiogenesis is associated with the onset of hyperplasia in human ductal breast disease. British Journal of Cancer, 2009, 101, 666-672.	2.9	77
54	Lipopolysaccharide alters vasodilation to atrial natriuretic peptide via nitric oxide and endothelin-1: Time-dependent effects. European Journal of Pharmacology, 2009, 621, 67-70.	1.7	3

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55	A critical analysis of current in vitro and in vivo angiogenesis assays. International Journal of Experimental Pathology, 2009, 90, 195-221.	0.6	408
56	Is nitric oxide important in photodynamic therapy?. Journal of Photochemistry and Photobiology B: Biology, 2009, 95, 141-147.	1.7	48
57	Breast cancer cells stimulate osteoprotegerin (OPG) production by endothelial cells through direct cell contact. Molecular Cancer, 2009, 8, 49.	7.9	38
58	Current status and future prospects for anti-angiogenic therapies in cancer. Expert Opinion on Drug Discovery, 2009, 4, 961-979.	2.5	24
59	Prostate cancer cells home to bone in a new in vivo model of bone metastasis. FASEB Journal, 2009, 23, 927.11.	0.2	1
60	A novel magnetic approach to enhance the efficacy of cell-based gene therapies. Gene Therapy, 2008, 15, 902-910.	2.3	98
61	Angiogenesis in pre-malignant conditions. British Journal of Cancer, 2008, 99, 1961-1966.	2.9	56
62	Tissue factor, angiogenesis and tumour progression. Breast Cancer Research, 2008, 10, 204.	2.2	82
63	REDUCED VASCULAR RESPONSE TO PHENYLEPHRINE DURING EXPOSURE TO LIPOPOLYSACCHARIDE IN VITRO INVOLVES NITRIC OXIDE AND ENDOTHELIN 1. Shock, 2008, 29, 417-421.	1.0	10
64	LPS ABOLISHES EXTRASPLENIC VASOCONSTRICTION TO ATRIAL NATRIURETIC PEPTIDE. Shock, 2008, 29, 675-680.	1.0	5
65	The angiogenic switch occurs at the adenoma stage of the adenoma carcinoma sequence in colorectal cancer. Gut, 2007, 56, 1426-1432.	6.1	73
66	Influence of VEGF-A gene variation and protein levels in breast cancer susceptibility and severity. International Journal of Cancer, 2007, 121, 1009-1016.	2.3	67
67	Neuropilins in physiological and pathological angiogenesis. Journal of Pathology, 2007, 212, 237-248.	2.1	194
68	Identification of key residues involved in mediating the inÂvivo anti-tumor/anti-endothelial activity of Alphastatin. Journal of Thrombosis and Haemostasis, 2007, 5, 846-854.	1.9	10
69	Endostatin gene variation and protein levels in breast cancer susceptibility and severity. BMC Cancer, 2007, 7, 107.	1.1	20
70	The unfolded protein response and cancer: a brighter future unfolding?. Journal of Molecular Medicine, 2007, 85, 331-341.	1.7	61
71	INTRAVENOUS ANESTHESIA INHIBITS LEUKOCYTE-ENDOTHELIAL INTERACTIONS AND EXPRESSION OF CD11B AFTER HEMORRHAGE. Shock, 2006, 25, 492-499.	1.0	17
72	Gene therapy for prostate cancer: Current strategies and new cell-based approaches. Prostate, 2006, 66, 470-494.	1.2	26

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73	The effect of photodynamic therapy (PDT) on oesophageal motility and acid clearance in patients with Barrettâ€™s oesophagus. Journal of Photochemistry and Photobiology B: Biology, 2006, 85, 17-22.	1.7	2
74	Osteoprotegerin (OPG)-a potential new role in the regulation of endothelialcell phenotype and tumour angiogenesis?. International Journal of Cancer, 2006, 118, 1901-1908.	2.3	96
75	Macrophages promote angiogenesis in human breast tumour spheroids in vivo. British Journal of Cancer, 2006, 94, 101-107.	2.9	161
76	Ketotifen abrogates local and systemic consequences of rat intestinal ischemiaâ€“reperfusion injury. Journal of Gastroenterology and Hepatology (Australia), 2005, 20, 1032-1038.	1.4	34
77	Sorsby's fundus dystrophy mutations impair turnover of TIMP-3 by retinal pigment epithelial cellsâ€. Human Molecular Genetics, 2005, 14, 3579-3586.	1.4	43
78	Effects of Helicobacter pylori on Endothelial Cell Proliferation and Chemotaxis. Digestion, 2004, 69, 201-210.	1.2	11
79	Current methods for assaying angiogenesis in vitro and in vivo. International Journal of Experimental Pathology, 2004, 85, 233-248.	0.6	278
80	Matrix metalloproteinase activity and immunohistochemical profile of matrix metalloproteinase-2 and -9 and tissue inhibitor of metalloproteinase-1 during human dermal wound healing. Wound Repair and Regeneration, 2004, 12, 295-304.	1.5	63
81	Approaches to improve angiogenesis in tissue-engineered skin. Wound Repair and Regeneration, 2004, 12, 635-642.	1.5	40
82	Comparison of high- vs low-dose 5-aminolevulinic acid for photodynamic therapy of Barrett?s esophagus. Surgical Endoscopy and Other Interventional Techniques, 2004, 18, 452-458.	1.3	44
83	Trafficking of tumor peptide-specific cytotoxic T lymphocytes into the tumor microcirculation. International Journal of Cancer, 2004, 110, 239-244.	2.3	14
84	Role of tumour necrosis factor gene polymorphisms (-308 and -238) in breast cancer susceptibility and severity. Breast Cancer Research, 2004, 6, R395-400.	2.2	65
85	Alphastatin, a 24â€“amino acid fragment of human fibrinogen, is a potent new inhibitor of activated endothelial cells in vitro and in vivo. Blood, 2004, 103, 601-606.	0.6	60
86	Development of a reconstructed human skin model for angiogenesis. Wound Repair and Regeneration, 2003, 11, 275-284.	1.5	108
87	The role of fibrinogen and related fragments in tumour angiogenesis and metastasis. Expert Opinion on Biological Therapy, 2003, 3, 1105-1120.	1.4	103
88	Mucosal Villus Microcirculatory Disturbances Associated with Rat Intestinal Ischaemia-Reperfusion Injury Are Not Prevented by Tacrolimus. Digestion, 2003, 67, 154-160.	1.2	5
89	Eradication of Dysplastic Barrettâ€™s Oesophagus Using Photodynamic Therapy: Long-Term Follow-Up. Endoscopy, 2003, 35, 496-501.	1.0	74
90	The Dose-Dependent Effects of Fentanyl on Rat Skeletal Muscle Microcirculation In Vivo. Anesthesia and Analgesia, 2003, 96, 456-462.	1.1	8

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91	Aminolaevulinic acid-induced photodynamic therapy: cellular responses to glucose starvation. British Journal of Cancer, 2002, 86, 1343-1347.	2.9	26
92	Fibrinogen E fragment selectively disrupts the vasculature and inhibits the growth of tumours in a syngeneic murine model. British Journal of Cancer, 2002, 86, 1813-1816.	2.9	24
93	Response of the Rat Cremaster Microcirculation to Hemorrhage In Vivo: Differential Effects of Intravenous Anesthetic Agents. Shock, 2002, 18, 542-548.	1.0	28
94	Differential effects of intravenous anaesthetic agents on the response of rat mesenteric microcirculation in vivo after haemorrhage â€ â€This work was performed in the Section of Surgical and Anaesthetic Sciences and funded by a British Journal of Anaesthesia Project Grant.. British Journal of Anaesthesia, 2002, 88, 255-263.	1.5	25
95	Effects of Hypothermia and Rewarming on the Mucosal Villus Microcirculation and Survival After Rat Intestinal Ischemiaâ€“Reperfusion Injury. Annals of Surgery, 2002, 236, 67-74.	2.1	26
96	The use of 5-aminolaevulinic acid as a photosensitiser in photodynamic therapy and photodiagnosis. Photochemical and Photobiological Sciences, 2002, 1, 158-168.	1.6	120
97	Angiogenesis induction and regression in human surgical wounds. Wound Repair and Regeneration, 2002, 10, 245-251.	1.5	91
98	FK409 inhibits both local and remote organ damage after intestinal ischaemia. Journal of Pathology, 2002, 197, 595-602.	2.1	32
99	Role of genetic polymorphisms in tumour angiogenesis. British Journal of Cancer, 2002, 87, 1057-1065.	2.9	78
100	EFFECTS OF FK409 ON INTESTINAL ISCHEMIA-REPERFUSION INJURY AND ISCHEMIA-INDUCED CHANGES IN THE RAT MUCOSAL VILLUS MICROCIRCULATION1. Transplantation, 2001, 72, 1875-1880.	0.5	21
101	The History of Photodetection and Photodynamic TherapyÂ¶. Photochemistry and Photobiology, 2001, 74, 656.	1.3	529
102	Comparison of three in vitro human 'angiogenesis' assays with capillaries formed in vivo. Angiogenesis, 2001, 4, 113-121.	3.7	296
103	Differential cell death response to photodynamic therapy is dependent on dose and cell type. British Journal of Cancer, 2001, 84, 1384-1386.	2.9	110
104	The History of Photodetection and Photodynamic TherapyÂ¶. Photochemistry and Photobiology, 2001, 74, 656-669.	1.3	50
105	Aminolevulinic acid-induced photodynamic therapy: safe and effective ablation of dysplasia in Barrettâ€™s esophagus. Ecological Management and Restoration, 2000, 13, 18-22.	0.2	29
106	L â€Arginine protects and exacerbates ethanolâ€induced rat gastric mucosal injury. Journal of Gastroenterology and Hepatology (Australia), 2000, 15, 915-924.	1.4	10
107	Mechanisms of Helicobacter pylori-induced rat gastric mucosal microcirculatory disturbances in vivo. Digestive Diseases and Sciences, 2000, 45, 763-772.	1.1	20
108	Photodynamic therapy for dysplastic Barrett's oesophagus: a prospective, double blind, randomised, placebo controlled trial. Gut, 2000, 47, 612-617.	6.1	172

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109	5-Aminolevulinic Acid Photosensitization of Dysplastic Barrett's Esophagus: A Pharmacokinetic Study. Photochemistry and Photobiology, 1999, 70, 656-662.	1.3	52
110	Proteolysis in human breast and colorectal cancer. British Journal of Cancer, 1999, 81, 287-293.	2.9	77
111	Aminolaevulinic Acid-induced Photodynamic Therapy in the Treatment of Dysplastic Barrett's Oesophagus and Adenocarcinoma. Lasers in Medical Science, 1999, 14, 278-285.	1.0	20
112	THE ROLE OF VASCULAR ENDOTHELIAL GROWTH FACTOR IN A MURINE CHRONIC GRANULOMATOUS TISSUE AIR POUCH MODEL OF ANGIOGENESIS. Journal of Pathology, 1996, 180, 90-94.	2.1	54
113	THE ROLE OF VASCULAR ENDOTHELIAL GROWTH FACTOR IN A MURINE CHRONIC GRANULOMATOUS TISSUE AIR POUCH MODEL OF ANGIOGENESIS. , 1996, 180, 90.		1
114	Kinetics of Endogenous Protoporphyrin IX Induction by Aminolevulinic Acid: Preliminary Studies in the Bladder. Journal of Urology, 1994, 152, 550-553.	0.2	44
115	The Effect of an Opiate Receptor Antagonist on the Heal Brake Mechanism in the Rat. Pharmacology, 1993, 47, 230-236.	0.9	13