

Gurmit Singh

List of Publications by Year in descending order

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79
papers

2,818
citations

159358

30
h-index

189595

50
g-index

81
all docs

81
docs citations

81
times ranked

4661
citing authors

#	ARTICLE	IF	CITATIONS
1	Distinct genomic copy number in mitochondria of different mammalian organs. <i>Journal of Cellular Physiology</i> , 1990, 143, 160-164.	2.0	205
2	Expression of xCT and activity of system xc ⁻ are regulated by NRF2 in human breast cancer cells in response to oxidative stress. <i>Redox Biology</i> , 2015, 5, 33-42.	3.9	188
3	AMP-activated protein kinase (AMPK) beyond metabolism. <i>Cancer Biology and Therapy</i> , 2014, 15, 156-169.	1.5	174
4	Comparison of the effectiveness of adenovirus vectors expressing cyclin kinase inhibitors p16INK4A, p18INK4C, p19INK4D, p21WAF1/CIP1 and p27KIP1 in inducing cell cycle arrest, apoptosis and inhibition of tumorigenicity. <i>Oncogene</i> , 1999, 18, 1663-1676.	2.6	138
5	Scavenging of Extracellular H ₂ O ₂ by Catalase Inhibits the Proliferation of HER-2/Neu-transformed Rat-1 Fibroblasts through the Induction of a Stress Response. <i>Journal of Biological Chemistry</i> , 2001, 276, 9558-9564.	1.6	132
6	Effect of Early Treatment With Hydroxychloroquine or Lopinavir and Ritonavir on Risk of Hospitalization Among Patients With COVID-19. <i>JAMA Network Open</i> , 2021, 4, e216468.	2.8	111
7	Overview of Glutamatergic Dysregulation in Central Pathologies. <i>Biomolecules</i> , 2015, 5, 3112-3141.	1.8	87
8	Pathophysiologic interactions in skeletal metastasis. <i>Cancer</i> , 2000, 88, 2912-2918.	2.0	80
9	Cancer cell lines release glutamate into the extracellular environment. <i>Clinical and Experimental Metastasis</i> , 2009, 26, 781-787.	1.7	78
10	ets ¹ is transcriptionally upregulated by H ₂ O ₂ via an antioxidant response element. <i>FASEB Journal</i> , 2005, 19, 2085-2087.	0.2	76
11	High activity of mitochondrial glycerophosphate dehydrogenase and glycerophosphate-dependent ROS production in prostate cancer cell lines. <i>Biochemical and Biophysical Research Communications</i> , 2005, 333, 1139-1145.	1.0	70
12	Establishing a relationship between prolactin and altered fatty acid ^β -Oxidation via carnitine palmitoyl transferase 1 in breast cancer cells. <i>BMC Cancer</i> , 2011, 11, 56.	1.1	65
13	Glutamate sensing in biofluids: recent advances and research challenges of electrochemical sensors. <i>Analyst</i> , The, 2020, 145, 321-347.	1.7	63
14	Cancer cells release glutamate via the cystine/glutamate antiporter. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 91-95.	1.0	61
15	Inhibition of breast cancer-cell glutamate release with sulfasalazine limits cancer-induced bone pain. <i>Pain</i> , 2014, 155, 28-36.	2.0	55
16	Mechanisms associated with mitochondrial-generated reactive oxygen species in cancer This article is one of a selection of papers published in a Special Issue on Oxidative Stress in Health and Disease.. <i>Canadian Journal of Physiology and Pharmacology</i> , 2010, 88, 204-219.	0.7	54
17	Biological Mechanisms of Cancer-Induced Depression. <i>Frontiers in Psychiatry</i> , 2018, 9, 299.	1.3	54
18	Electrochemical Sensing of Cannabinoids in Biofluids: A Noninvasive Tool for Drug Detection. <i>ACS Sensors</i> , 2020, 5, 620-636.	4.0	50

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19	Ets-1 Regulates Energy Metabolism in Cancer Cells. PLoS ONE, 2010, 5, e13565.	1.1	49
20	Inhibitors of glutamate release from breast cancer cells; new targets for cancer-induced bone-pain. Scientific Reports, 2015, 5, 8380.	1.6	42
21	Electrochemical sensing: A prognostic tool in the fight against COVID-19. TrAC - Trends in Analytical Chemistry, 2021, 136, 116198.	5.8	40
22	The Role of the p53 Tumor Suppressor in the Response of Human Cells to Photofrin-mediated Photodynamic Therapy. Photochemistry and Photobiology, 2000, 71, 201-210.	1.3	39
23	Signal transducer and activator of transcription 3 and 5 regulate system Xc- and redox balance in human breast cancer cells. Molecular and Cellular Biochemistry, 2015, 405, 205-221.	1.4	39
24	Ets-1 global gene expression profile reveals associations with metabolism and oxidative stress in ovarian and breast cancers. Cancer & Metabolism, 2013, 1, 17.	2.4	37
25	Role of the transcription factor Ets-1 in cisplatin resistance. Molecular Cancer Therapeutics, 2004, 3, 823-32.	1.9	37
26	Evidence for lack of mitochondrial DNA repair following cis-dichlorodiammineplatinum treatment. Cancer Chemotherapy and Pharmacology, 1990, 26, 97-100.	1.1	36
27	Ets-1 regulates intracellular glutathione levels: key target for resistant ovarian cancer. Molecular Cancer, 2013, 12, 138.	7.9	36
28	The complex roles of STAT3 and STAT5 in maintaining redox balance: Lessons from STAT-mediated xCT expression in cancer cells. Molecular and Cellular Endocrinology, 2017, 451, 40-52.	1.6	36
29	Stimulation of bone resorption results in a selective increase in the growth rate of spontaneously metastatic Walker 256 cancer cells in bone. Clinical and Experimental Metastasis, 1992, 10, 411-418.	1.7	35
30	Extracellular glutamate alters mature osteoclast and osteoblast functions. Canadian Journal of Physiology and Pharmacology, 2010, 88, 929-936.	0.7	35
31	Increased expression of mitochondrial glycerophosphate dehydrogenase and antioxidant enzymes in prostate cancer cell lines/cancer. Free Radical Research, 2007, 41, 1116-1124.	1.5	31
32	Depressive-like behaviours and decreased dendritic branching in the medial prefrontal cortex of mice with tumors: A novel validated model of cancer-induced depression. Behavioural Brain Research, 2015, 294, 25-35.	1.2	29
33	A quantitative model for spontaneous bone metastasis: evidence for a mitogenic effect of bone on Walker 256 cancer cells. Clinical and Experimental Metastasis, 1992, 10, 403-410.	1.7	27
34	Glutamate Signaling in Healthy and Diseased Bone. Frontiers in Endocrinology, 2012, 3, 89.	1.5	25
35	Mitochondrial FAD-linked Glycerol-3-phosphate Dehydrogenase: A Target for Cancer Therapeutics. Pharmaceuticals, 2014, 7, 192-206.	1.7	25
36	Metronomic PDT and Cell Death Pathways. Methods in Molecular Biology, 2010, 635, 65-78.	0.4	24

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37	Liver kinase B1 expression (LKB1) is repressed by estrogen receptor alpha (ER α) in MCF-7 human breast cancer cells. <i>Biochemical and Biophysical Research Communications</i> , 2012, 417, 1063-1068.	1.0	24
38	Immunolocalization of matrix metalloproteinases and their inhibitors in clinical specimens of bone metastasis from breast carcinoma. <i>Clinical and Experimental Metastasis</i> , 2000, 18, 463-470.	1.7	23
39	Evaluation of the preclinical analgesic efficacy of naturally derived, orally administered oil forms of Δ^9 -tetrahydrocannabinol (THC), cannabidiol (CBD), and their 1:1 combination. <i>PLoS ONE</i> , 2020, 15, e0234176.	1.1	23
40	Differential Toxicity of Cis and Trans Isomers of Dichlorodiammineplatinum. <i>Journal of Biochemical Toxicology</i> , 1988, 3, 223-233.	0.5	21
41	Characterization of a rat model of metastatic prostate cancer bone pain. <i>Journal of Pain Research</i> , 2010, 3, 213.	0.8	21
42	An evaluation of the anti-hyperalgesic effects of cannabidiol methyl ester in a preclinical model of peripheral neuropathic pain. <i>British Journal of Pharmacology</i> , 2020, 177, 2712-2725.	2.7	20
43	Behavioural Effects of Using Sulfasalazine to Inhibit Glutamate Released by Cancer Cells: A Novel target for Cancer-Induced Depression. <i>Scientific Reports</i> , 2017, 7, 41382.	1.6	19
44	Identification of capsazepine as a novel inhibitor of system x _c ⁻ and cancer-induced bone pain. <i>Journal of Pain Research</i> , 2017, Volume 10, 915-925.	0.8	19
45	Differences in electrophysiological properties of functionally identified nociceptive sensory neurons in an animal model of cancer-induced bone pain. <i>Molecular Pain</i> , 2016, 12, 174480691662877.	1.0	18
46	Bone cancer-induced pain is associated with glutamate signalling in peripheral sensory neurons. <i>Molecular Pain</i> , 2020, 16, 174480692091153.	1.0	18
47	The transcriptional responsiveness of LKB1 to STAT-mediated signaling is differentially modulated by prolactin in human breast cancer cells. <i>BMC Cancer</i> , 2014, 14, 415.	1.1	17
48	Cancer pain and neuropathic pain are associated with A β ² sensory neuronal plasticity in dorsal root ganglia and abnormal sprouting in lumbar spinal cord. <i>Molecular Pain</i> , 2018, 14, 174480691881009.	1.0	17
49	xCT knockdown in human breast cancer cells delays onset of cancer-induced bone pain. <i>Molecular Pain</i> , 2019, 15, 174480691882218.	1.0	17
50	Chronic Inhibition of STAT3/STAT5 in Treatment-Resistant Human Breast Cancer Cell Subtypes: Convergence on the ROS/SUMO Pathway and Its Effects on xCT Expression and System x _c ⁻ Activity. <i>PLoS ONE</i> , 2016, 11, e0161202.	1.1	16
51	Cancer-Induced Oxidative Stress and Pain. <i>Current Pain and Headache Reports</i> , 2014, 18, 384.	1.3	15
52	A phase 2 trial exploring the clinical and correlative effects of combining doxycycline with bone-targeted therapy in patients with metastatic breast cancer. <i>Journal of Bone Oncology</i> , 2016, 5, 173-179.	1.0	15
53	Functional effects of TrkA inhibition on system x _c ⁻ -mediated glutamate release and cancer-induced bone pain. <i>Molecular Pain</i> , 2018, 14, 174480691877646.	1.0	13
54	Applying Serum Cytokine Levels to Predict Pain Severity in Cancer Patients. <i>Journal of Pain Research</i> , 2020, Volume 13, 313-321.	0.8	13

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55	Tumour-Derived Glutamate: Linking Aberrant Cancer Cell Metabolism to Peripheral Sensory Pain Pathways. <i>Current Neuropharmacology</i> , 2017, 15, 620-636.	1.4	13
56	A by-product of glutathione production in cancer cells may cause disruption in bone metabolic processes This review is one of a selection of papers published in a Special Issue on Oxidative Stress in Health and Disease.. <i>Canadian Journal of Physiology and Pharmacology</i> , 2010, 88, 197-203.	0.7	12
57	Rat model of cancer-induced bone pain: changes in nonnociceptive sensory neurons in vivo. <i>Pain Reports</i> , 2017, 2, e603.	1.4	12
58	RNA sequencing profiles hippocampal gene expression in a validated model of cancer-induced depression. <i>Genes, Brain and Behavior</i> , 2016, 15, 711-721.	1.1	10
59	Calculation of Singlet Oxygen Dose from Photosensitizer Fluorescence and Photobleaching During mTHPC Photodynamic Therapy of MLL Cells. <i>Photochemistry and Photobiology</i> , 2005, 81, 196-205.	1.3	9
60	Future directions for bone metastasis research – highlights from the 2015 bone and the Oncologist new updates conference (BONUS). <i>Journal of Bone Oncology</i> , 2016, 5, 57-62.	1.0	9
61	Activation of hippocampal microglia in a murine model of cancer-induced pain. <i>Journal of Pain Research</i> , 2019, Volume 12, 1003-1016.	0.8	9
62	Inhibiting STAT3 in a murine model of human breast cancer-induced bone pain delays the onset of nociception. <i>Molecular Pain</i> , 2019, 15, 174480691882347.	1.0	7
63	Response to pregabalin and progesterone differs in male and female rat models of neuropathic and cancer pain. <i>Canadian Journal of Pain</i> , 2020, 4, 39-58.	0.6	7
64	Nucleotide excision repair in the human ovarian carcinoma cell line (2008) and its cisplatin-resistant variant (C13*). <i>Cancer Chemotherapy and Pharmacology</i> , 1996, 38, 245-253.	1.1	6
65	Alterations in Mitochondrial and Apoptosis-regulating Gene Expression in Photodynamic Therapy-resistant Variants of HT29 Colon Carcinoma Cells. <i>Photochemistry and Photobiology</i> , 2005, 81, 306-313.	1.3	6
66	Sex differences in neuro(auto)immunity and chronic sciatic nerve pain. <i>Biology of Sex Differences</i> , 2020, 11, 62.	1.8	6
67	Bone-targeted therapy for metastatic breast cancer – Where do we go from here? A commentary from the BONUS 8 meeting. <i>Journal of Bone Oncology</i> , 2014, 3, 1-4.	1.0	5
68	Spinal microglia contribute to cancer-induced pain through system xC ⁻ -mediated glutamate release. <i>Pain Reports</i> , 2019, 4, e738.	1.4	4
69	Effect of glutaminase inhibition on cancer-induced bone pain. <i>Breast Cancer: Targets and Therapy</i> , 2019, Volume 11, 273-282.	1.0	3
70	In Vitro Induction of PDT Resistance in HT29, HT1376 and SK-N-MC Cells by Various Photosensitizers. <i>Photochemistry and Photobiology</i> , 2007, 73, 651-656.	1.3	2
71	Up-regulation of Hsp27 Plays a Role in the Resistance of Human Colon Carcinoma HT29 Cells to Photooxidative Stress. <i>Photochemistry and Photobiology</i> , 2002, 76, 98-104.	1.3	2
72	Extreme Dark Cytotoxicity of Nile Blue A in Normal Human Fibroblasts. <i>Photochemistry and Photobiology</i> , 2007, 74, 707-711.	1.3	1

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73	Evaluating the efficacy of cannabidiol to manage surgically induced neuropathic pain in a preclinical rat model: Are T cells a sexually dimorphic target?. Canadian Journal of Pain, 2019, 3, 44-48.	0.6	1
74	Oncodynamic Effect of Cancer on Depression. , 2016, , 105-127.		0
75	The Disrupted Steady-State: Tipping the Balance in Favour of Cancer. , 2016, , 1-37.		0
76	Title is missing!. , 2020, 15, e0234176.		0
77	Title is missing!. , 2020, 15, e0234176.		0
78	Title is missing!. , 2020, 15, e0234176.		0
79	Title is missing!. , 2020, 15, e0234176.		0