R P Hill

List of Publications by Year
in descending order

130 papers	7,562 citations	47 h-index	84 g-index
		47006	54911
130 all docs	130 docs citations	130 times ranked	5603 citing authors

#	Article	IF	Citations
1	Oxygenation predicts radiation response and survival in patients with cervix cancer. Radiotherapy and Oncology, 1998, 48, 149-156.	0.6	568
2	Carnitine palmitoyltransferase 1C promotes cell survival and tumor growth under conditions of metabolic stress. Genes and Development, 2011, 25, 1041-1051.	5.9	386
3	Hypoxia induces DNA overreplication and enhances metastatic potential of murine tumor cells.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 9533-9537.	7.1	354
4	Tumor Hypoxia Has Independent Predictor Impact Only in Patients With Node-Negative Cervix Cancer. Journal of Clinical Oncology, 2002, 20, 680-687.	1.6	348
5	Molecular Mechanisms of Tumor Invasion and Metastasis: An Integrated View. Current Molecular Medicine, 2003, 3, 659-671.	1.3	237
6	Acute (cyclic) hypoxia enhances spontaneous metastasis of KHT murine tumors. Cancer Research, 2001, 61, 8903-8.	0.9	235
7	The p53 gene as a modifier of intrinsic radiosensitivity: implications for radiotherapy. Radiotherapy and Oncology, 1996, 40, 197-223.	0.6	185
8	Characterization of image quality and imageâ€guidance performance of a preclinical microirradiator. Medical Physics, 2011, 38, 845-856.	3.0	158
9	Glucose starvation and acidosis: effect on experimental metastatic potential, DNA content and MTX resistance of murine tumour cells. British Journal of Cancer, 1991, 64, 663-670.	6.4	152
10	Partial volume rat lung irradiation: An evaluation of early DNA damage. International Journal of Radiation Oncology Biology Physics, 1998, 40, 467-476.	0.8	149
11	"Destemming" Cancer Stem Cells. Journal of the National Cancer Institute, 2007, 99, 1435-1440.	6.3	140
12	Exposure to hypoxia, glucose starvation and acidosis: effect on invasive capacity of murine tumor cells and correlation with cathepsin (L + B) secretion. Clinical and Experimental Metastasis, 1996, 15, 19-25.	3.3	136
13	Dynamic heterogeneity: rapid generation of metastatic variants in mouse B16 melanoma cells. Science, 1984, 224, 998-1001.	12.6	134
14	A Lung-colony Assay to Determine the Radiosensitivity of the Cells of a Solid Tumour. International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine, 1969, 15, 435-444.	1.0	125
15	The importance of the pre-irradiation breathing times of oxygen and carbogen (5% CO2: 95% O2) on the in vivo radiation response of a murine sarcoma. International Journal of Radiation Oncology Biology Physics, 1977, 2, 903-911.	0.8	125
16	Anemia, hypoxia and transfusion in patients with cervix cancer: a review. Radiotherapy and Oncology, 2000, 57, 13-19.	0.6	125
17	Effects of Reoxygenation on Cells From Hypoxic Regions of Solid Tumors: Anticancer Drug Sensitivity and Metastatic Potential. Journal of the National Cancer Institute, 1990, 82, 371-380.	6.3	120
18	The relationship between elevated interstitial fluid pressure and blood flow in tumors: a bioengineering analysis. International Journal of Radiation Oncology Biology Physics, 1999, 43, 1111-1123.	0.8	119

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19	Metastatic variants are generated spontaneously at a high rate in mouse KHT tumor.. Proceedings of the National Academy of Sciences of the United States of America, 1982, 79, 5547-5551.	7.1	114
20	The proportion of stem cells in murine tumors. International Journal of Radiation Oncology Biology Physics, 1989, 16, 513-518.	0.8	113
21	The effect of anaemia on the fraction of hypoxic cells in an experimental tumour. British Journal of Radiology, 1971, 44, 299-304.	2.2	111
22	Analysis of Genomic Integrity and p53-Dependent G₁Checkpoint in Telomerase-Induced Extended-Life-Span Human Fibroblasts. Molecular and Cellular Biology, 1999, 19, 2373-2379.	2.3	100
23	Interstitial fluid pressure in cervical carcinoma. , 1998, 82, 2418-2426.		84
24	Relationship of hypoxia to metastatic ability in rodent tumours. British Journal of Cancer, 2001, 84, 1280-1285.	6.4	82
25	Quantitative genetic analysis of tumor progression. Cancer and Metastasis Reviews, 1985, 4, 173-192.	5.9	81
26	Normal tissue radiobiology: from the laboratory to the clinic. International Journal of Radiation Oncology Biology Physics, 2001, 49, 353-365.	0.8	81
27	Comparison between in vitro radiosensitivity and in vivo radioresponse in murine tumor cell lines II: in vivo radioresponse following fractionated treatment and in vitro/in vivo correlations. International Journal of Radiation Oncology Biology Physics, 1990, 18, 331-345.	0.8	78
28	Radiation effects on the respiratory system. British Journal of Radiology, 2005, Supplement_27, 75-81.	2.2	74
29	The response of hypoxic B16 melanoma cells to in vivo treatment with chemotherapeutic agents. Cancer Research, 1975, 35, 1147-53.	0.9	74
30	Differential thermal sensitivity of tumour and normal tissue microvascular response during hyperthermia. International Journal of Hyperthermia, 1992, 8, 501-514.	2.5	71
31	Cell cycle distribution of chronically hypoxic cells and determination of the clonogenic potential of cells accumulated in G2 + M phases after irradiation of a solid tumor in vivo. Cancer Research, 1979, 39, 1891-7.	0.9	70
32	Heterogeneity of polarographic oxygen tension measurements in cervix cancer: An evaluation of within and between tumor variability, probe position, and track depth. International Journal of Radiation Oncology Biology Physics, 1997, 39, 405-412.	0.8	69
33	Tumor heterogeneity and stability of the metastatic phenotype of mouse KHT sarcoma cells. Cancer Research, 1981, 41, 1368-72.	0.9	65
34	Tumor progression: Potential role of unstable genomic changes. Cancer and Metastasis Reviews, 1990, 9, 137-147.	5.9	64
35	Combining bioreductive drugs (SR 4233 or SN 23862) with the vasoactive agents flavone acetic acid or 5,6-dimethylxanthenone acetic acid. International Journal of Radiation Oncology Biology Physics, 1994, 29, 373-377.	0.8	63
36	Analysis of the intra- and intertumoral heterogeneity of hypoxia in pancreatic cancer patients receiving the nitroimidazole tracer pimonidazole. British Journal of Cancer, 2015, 113, 864-871.	6.4	63

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37	Mutant p53 increases radioresistance in rat embryo fibroblasts simultaneously transfected with HPV16-E7 and/or activated H-ras. Oncogene, 1994, 9, 1527-36.	5.9	63
38	Sensitizers and radiation dose fractionation: Results and interpretations. International Journal of Radiation Oncology Biology Physics, 1986, 12, 1049-1054.	0.8	60
39	Generation of drug-resistant variants in metastatic B16 mouse melanoma cell lines. Cancer Research, 1987, 47, 2604-8.	0.9	60
40	An examination of the effects of hypoxia, acidosis, and glucose starvation on the expression of metastasis-associated genes in murine tumor cells. Clinical and Experimental Metastasis, 1997, 15, 469-483.	3.3	58
41	Factors Affecting Hypoxic KHT Tumor Cells in Mice Breathing O₂, O₂+ CO₂, or Hyperbaric Oxygen with or without Anesthesia. Radiology, 1973, 106, 663-671.	7.3	56
42	Linear-quadratic model underestimates sparing effect of small doses per fraction in rat spinal cord. Radiotherapy and Oncology, 1992, 23, 176-184.	0.6	54
43	Heterogeneity of tumor oxygenation: relationship to tumor necrosis, tumor size, and metastasis. International Journal of Radiation Oncology Biology Physics, 1998, 42, 717-721.	0.8	54
44	Cervix cancer oxygenation measured following external radiation therapy. International Journal of Radiation Oncology Biology Physics, 1998, 42, 751-753.	0.8	53
45	Comparison between in vitro radiosensitivity and in vivo radioresponse of murine tumor cell lines I: parameters of in vitro radiosensitivity and endogenous cellular glutathione levels. International Journal of Radiation Oncology Biology Physics, 1990, 18, 133-145.	0.8	51
46	A comparison in individual murine tumors of techniques for measuring oxygen levels. International Journal of Radiation Oncology Biology Physics, 1999, 44, 1137-1146.	0.8	50
47	Combined radiotherapy-chemotherapy of lewis lung carcinoma. International Journal of Radiation Oncology Biology Physics, 1978, 4, 49-52.	0.8	49
48	Enhanced metastatic dissemination to multiple organs by melanoma and lymphoma cells in timp-3â^'/â^' mice. Oncogene, 2006, 25, 6489-6496.	5.9	49
49	Evaluation of isoeffect formulae for predicting radiation-induced lung damage. Radiotherapy and Oncology, 1993, 26, 51-63.	0.6	48
50	Smoking: The influence of carboxyhemoglobin (HbCO) on tumor oxygenation and response to radiation. International Journal of Radiation Oncology Biology Physics, 1978, 4, 657-662.	0.8	47
51	Post-irradiation lung density changes measured by computerized tomography. International Journal of Radiation Oncology Biology Physics, 1983, 9, 847-852.	0.8	47
52	The effect of continuous or fractionated irradiation on a murine sarcoma. British Journal of Radiology, 1973, 46, 167-174.	2.2	46
53	A quantitative analysis of the reduction in oxygen levels required to induce up-regulation of vascular endothelial growth factor (VEGF) mRNA in cervical cancer cell lines. British Journal of Cancer, 1999, 80, 1518-1524.	6.4	46
54	BIOLOGIC DISCUSSIONS AUGMENTING RADIATION EFFECTS AND MODEL SYSTEMS. Laryngoscope, 1975, 85, 1119-1133.	2.0	45

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55	In-field and out-of-field effects in partial volume lung irradiation in rodents: Possible correlation between early dna damage and functional endpoints. International Journal of Radiation Oncology Biology Physics, 2000, 48, 1539-1548.	0.8	44
56	The Effect of Intercellular Contact on the Radiation Sensitivity of KHT Sarcoma Cells. Radiation Research, 1979, 77, 182.	1.5	41
57	Dynamic heterogeneity and metastasis. Journal of Cellular Physiology, 1984, 121, 99-103.	4.1	41
58	Studies of the in vivo and in vitro cytotoxicity of the drug RSU-1069. British Journal of Cancer, 1986, 53, 743-751.	6.4	41
59	Re-irradiation tolerance in the rat spinal cord: influence of level of initial damage. Radiotherapy and Oncology, 1993, 26, 132-138.	0.6	40
60	The response of C₃H mammary tumours to Irradiation in single and fractionated doses. British Journal of Radiology, 1968, 41, 134-141.	2.2	39
61	The potential role of HSP70 as an indicator of response to radiation and hyperthermia treatments for recurrent breast cancer. International Journal of Hyperthermia, 1996, 12, 197-208.	2.5	39
62	The in vivo radiation response of an experimental tumor: The effect of exposing tumor-bearing mice to a reduced oxygen environment prior to but not during irradiation. International Journal of Radiation Oncology Biology Physics, 1979, 5, 61-68.	0.8	38
63	Intradermal Injection of Autologous Dermal Fibroblasts Improves Wound Healing in Irradiated Skin. Journal of Surgical Research, 1999, 85, 331-338.	1.6	38
64	The relationship between mouse arterial partial pressure of oxygen (PaO₂) and the effectiveness of localized tumour irradiation. British Journal of Radiology, 1975, 48, 662-667.	2.2	37
65	Radiation sensitivity of tumour cells stained in vitro or in vivo with the bisbenzimide fluorochrome Hoechst 33342. British Journal of Cancer, 1989, 60, 715-721.	6.4	35
66	A New Method of Determining the Fraction of Hypoxic Cells in a Transplantable Murine Sarcoma. Radiation Research, 1977, 70, 141.	1.5	34
67	Dynamic heterogeneity: isolation of murine tumor cell populations enriched for metastatic variants and quantification of the unstable expression of the phenotype. Clinical and Experimental Metastasis, 1986, 4, 153-176.	3.3	34
68	pH, Hypoxia and Metastasis. Novartis Foundation Symposium, 2008, 240, 154-168.	1.1	34
69	Mitigation of Radiation-Induced Lung Injury with EUK-207 and Genistein: Effects in Adolescent Rats. Radiation Research, 2012, 179, 125.	1.5	34
70	Mitigation of Lung Injury after Accidental Exposure to Radiation. Radiation Research, 2011, 176, 770.	1.5	31
71	Hypoxia Signaling and the Metastatic Phenotype. Current Molecular Medicine, 2014, 14, 565-579.	1.3	30
72	Effect of tumor blood flow manipulations on radiation response. International Journal of Radiation Oncology Biology Physics, 1983, 9, 1321-1325.	0.8	29

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73	Tumor Biology. American Journal of Clinical Oncology: Cancer Clinical Trials, 1988, 11, 253-274.	1.3	29
74	The p53-mediated G₁ checkpoint is retained in tumorigenic rat embryo fibroblast clones transformed by the human papillomavirus type 16 E7 gene and EJ-ras. Molecular and Cellular Biology, 1995, 15, 1446-1454.	2.3	29
75	Gene expression in individual cells: analysis using global single cell reverse transcription polymerase chain reaction (GSC RT-PCR). Mutation Research - Mutation Research Genomics, 1999, 406, 45-54.	1.1	29
76	Repopulation kinetics during fractionated irradiation and the relationship to the potential doubling time, TPOT. International Journal of Radiation Oncology Biology Physics, 1995, 31, 847-856.	0.8	28
77	Effects of tumour acidification with glucose+MIBG on the spontaneous metastatic potential of two murine cell lines. British Journal of Cancer, 2004, 90, 1842-1849.	6.4	28
78	Response of mouse lung to irradiation at different dose-rates. International Journal of Radiation Oncology Biology Physics, 1983, 9, 1043-1047.	0.8	27
79	Rapid phenotype variation in cells derived from lung metastases of KHT fibrosarcoma. Invasion & Metastasis, 1984, 4, 225-37.	0.5	27
80	Dose fractionation studies with a murine sarcoma under conditions of air or carbogen (95% OI2 + 5%) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.8	26
81	Re-irradiation tolerance of rat spinal cord to fractionated X-ray doses. Radiotherapy and Oncology, 1993, 28, 197-202.	0.6	26
82	The Lung-colony Assay: Extension to the Lewis Lung Tumour and the B16 Melanomaâ€“Radiosensitivity of B16 Melanoma Cells. International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine, 1975, 27, 377-387.	1.0	24
83	The development of improved ultrasound heaters suitable for superficial tissue heating. Medical Physics, 1982, 9, 888-897.	3.0	21
84	Radiobiological Studies of Cells in Multicellular Spheroids Using a Sequential Trypsinization Technique. Radiation Research, 1981, 86, 368.	1.5	20
85	The effects of clamping and reoxygenation on repopulation during fractionated irradiation. International Journal of Radiation Oncology Biology Physics, 1995, 31, 857-863.	0.8	18
86	Effects of reoxygenation on cells from hypoxic regions of solid tumors: analysis of transplanted murine tumors for evidence of DNA overreplication. Cancer Research, 1990, 50, 5031-8.	0.9	18
87	Observations of thermal gradients in perfused tissues during water bath heating. International Journal of Hyperthermia, 1992, 8, 275-287.	2.5	15
88	Comparing techniques of measuring tumor hypoxia in different murine tumors: Eppendorf pO2 Histograph, [3H]misonidazole binding and paired survival assay. Radiation Research, 1996, 145, 491-500.	1.5	15
89	Is there a relationship between repopulation and hypoxia/reoxygenation? Results from human carcinoma of the cervix. International Journal of Radiation Biology, 2003, 79, 487-494.	1.8	14
90	The effect of intercellular contact on the radiation sensitivity of KHT sarcoma cells. Radiation Research, 1979, 77, 182-92.	1.5	14

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91	A comparison of the response of tumour and normal tissue in the mouse exposed to single doses of fast neutrons or electrons. British Journal of Radiology, 1970, 43, 894-897.	2.2	13
92	Radiation-Induced Changes in the in Vivo Growth Rate of KHT Sarcoma Cells: Implications for the Comparison of Growth Delay and Cell Survival. Radiation Research, 1980, 83, 99.	1.5	13
93	Radiofrequency capacitive heaters: the effect of coupling medium resistivity on power absorption along a mouse leg. Physics in Medicine and Biology, 1993, 38, 1-12.	3.0	13
94	Dynamic heterogeneity: characterization of two cell lines derived from experimental lung metastases of mouse KHT fibrosarcoma. Invasion & Metastasis, 1987, 7, 217-29.	0.5	13
95	Drug resistance in kht fibrosarcoma cell lines with different metastatic ability. International Journal of Cancer, 1989, 43, 107-111.	5.1	12
96	The relationship between thermosensitivity and intracellular pH in cells deficient in antiport function. Radiotherapy and Oncology, 1996, 40, 75-83.	0.6	12
97	The effects of artery occlusion on temperature homogeneity during hyperthermia in rabbit kidneysin vivo. International Journal of Hyperthermia, 1997, 13, 21-37.	2.5	12
98	An appraisal of in vivo assays of excised tumours. The British Journal of Cancer Supplement, 1980, 4, 230-9.	0.1	12
99	Effect of small doses per fraction in rat spinal cord: influence of initial vs. final top-up doses. Radiotherapy and Oncology, 1993, 28, 52-56.	0.6	11
100	P53-mediated radioresistance does not correlate with metastatic potential in tumorigenic rat embryo cell lines following oncogene transfection. International Journal of Radiation Oncology Biology Physics, 1996, 34, 341-355.	0.8	11
101	The effect of heat on antiport function and survival in mammalian cells. International Journal of Radiation Oncology Biology Physics, 1996, 34, 623-634.	0.8	11
102	Dynamics of Micronuclei in Rat Skin Fibroblasts after X Irradiation. Radiation Research, 2009, 172, 106-113.	1.5	11
103	Effect of vascular occlusion on tumour temperatures during superficial hyperthermia. International Journal of Hyperthermia, 1994, 10, 495-505.	2.5	10
104	Radiation-induced lung damage in rats: The influence of fraction spacing on effect per fraction. International Journal of Radiation Oncology Biology Physics, 1994, 28, 633-640.	0.8	10
105	Animal age: A factor influencing the time of death following local thoracic irradiation. International Journal of Radiation Oncology Biology Physics, 1979, 5, 2069-2072.	0.8	9
106	Response of rat spinal cord to very small doses per fraction: lack of enhanced radiosensitivity. Radiotherapy and Oncology, 1995, 36, 44-49.	0.6	9
107	The Relationship between Intracellular pH and Heat Sensitivity in a Thermoresistant Cell Line. Radiation Research, 1996, 145, 144.	1.5	9
108	Studies of the Radiosensitizing Actionin Vivoof 2,2,6,6, Tetramethyl-4-piperidinol-N-oxyl (TMPN). International Journal of Radiation Biology and Related Studies in Physics, Chemistry, and Medicine, 1975, 27, 499-501.	1.0	8

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109	Toxicity of :RSU-1069 for KHT cells treated in vivo or in vitro: Evidence for a diffusible toxic product. International Journal of Radiation Oncology Biology Physics, 1989, 16, 1111-1114.	0.8	8
110	Combined nitrogen mustard-radiation studies with a mouse tumor. International Journal of Radiation Oncology Biology Physics, 1979, 5, 1611-1616.	0.8	7
111	A comparison of the rate of clearance of xenon (133Xe) and pertechnetate ion (99mTcOâ^'4) in murine tumors and normal leg muscles. International Journal of Radiation Applications and Instrumentation Part B, Nuclear Medicine and Biology, 1988, 15, 381-390.	0.3	7
112	A new method of determining the fraction of hypoxic cells in a transplantable murine sarcoma. Radiation Research, 1977, 70, 141-53.	1.5	7
113	The effect of chronic reductions in the arterial partial pressure of oxygen on the radiation response of an experimental tumour. British Journal of Radiology, 1978, 51, 992-996.	2.2	6
114	Relationship of tumor blood flow with radiation and drug response. International Journal of Radiation Oncology Biology Physics, 1979, 5, 1767-1772.	0.8	6
115	Drug sensitivity and metastatic ability in B16 melanoma cells. Clinical and Experimental Metastasis, 1991, 9, 393-402.	3.3	6
116	Ultrasonic measurements of breathing rate in rats and computer assisted analysis. International Journal of Radiation Oncology Biology Physics, 1993, 27, 651-657.	0.8	6
117	Hypoxia and the Radiation Response of Tumors. Advances in Experimental Medicine and Biology, 1983, 159, 17-35.	1.6	6
118	Radiation dose fractionation studies with hypoxic cell radiosensitizers using a murine tumor. International Journal of Radiation Oncology Biology Physics, 1982, 8, 483-485.	0.8	5
119	Initial studies of hypoxic radioprotection by deoxygenated dextran-hemoglobin. International Journal of Radiation Oncology Biology Physics, 1984, 10, 369-373.	0.8	5
120	Dynamic heterogeneity: experimental metastasis studies with RIF-1 fibrosarcoma. Clinical and Experimental Metastasis, 1989, 7, 107-116.	3.3	5
121	The role of magnetic resonance for assessing radiation-induced lung damage. International Journal of Radiation Oncology Biology Physics, 1994, 30, 125-132.	0.8	5
122	Biophysical basis of hypoxic radioprotection by deoxygenated dextran-hemoglobin. International Journal of Radiation Oncology Biology Physics, 1986, 12, 1303-1306.	0.8	4
123	Effect of simultaneous pulsed hyperthermia and pulsed radiation treatment on survival of SiHa cells. International Journal of Hyperthermia, 1998, 14, 573-581.	2.5	4
124	Myelopathy and Hyperfractionated Accelerated Radiotherapy: A Radiobiological Interpretation. Recent Results in Cancer Research, 1993, 130, 189-197.	1.8	4
125	The effect of misonidazole in combination with radiation dose fractionation. The British Journal of Cancer Supplement, 1978, 3, 255-8.	0.1	4
126	Radiation-induced changes in the in vivo growth rate of KHT sarcoma cells: implications for the comparison of growth delay and cell survival. Radiation Research, 1980, 83, 99-108.	1.5	4

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127	Anaesthesia and efficacy of hyperbaric oxygen in radiation therapy. British Journal of Radiology, 1979, 52, 1006-1006.	2.2	3
128	Genetic aspects of metastasis. Current Opinion in Oncology, 1990, 2, 157-162.	2.4	3
129	Clonal heterogeneity in plasminogen activator activity produced by two murine tumor cell lines. Clinical and Experimental Metastasis, 1995, 13, 439-452.	3.3	2
130	Combined radiation and drug-treatment of the B16 melanoma. British Journal of Cancer, 1975, 32, 755-756.	6.4	0