

Michael R Horsman

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179
papers

7,001
citations

47
h-index

77
g-index

186
ext. papers

7,696
ext. citations

3.3
avg, IF

6.05
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 179 | Imaging hypoxia to improve radiotherapy outcome. <i>Nature Reviews Clinical Oncology</i> , 2012 , 9, 674-87 | 19.4 | 422 |
| 178 | Modification of hypoxia-induced radioresistance in tumors by the use of oxygen and sensitizers. <i>Seminars in Radiation Oncology</i> , 1996 , 6, 10-21 | 5.5 | 344 |
| 177 | Vascular-targeting therapies for treatment of malignant disease. <i>Cancer</i> , 2004 , 100, 2491-9 | 6.4 | 274 |
| 176 | Plasma osteopontin, hypoxia, and response to the hypoxia sensitiser nimorazole in radiotherapy of head and neck cancer: results from the DAHANCA 5 randomised double-blind placebo-controlled trial. <i>Lancet Oncology</i> , 2005 , 6, 757-64 | 21.7 | 244 |
| 175 | Size-Dependent Accumulation of PEGylated Silane-Coated Magnetic Iron Oxide Nanoparticles in Murine Tumors. <i>ACS Nano</i> , 2009 , 3, 1947-51 | 16.7 | 221 |
| 174 | Pathophysiologic effects of vascular-targeting agents and the implications for combination with conventional therapies. <i>Cancer Research</i> , 2006 , 66, 11520-39 | 10.1 | 211 |
| 173 | Differentiation and definition of vascular-targeted therapies. <i>Clinical Cancer Research</i> , 2005 , 11, 416-20 | 12.9 | 189 |
| 172 | The impact of hypoxia and its modification of the outcome of radiotherapy. <i>Journal of Radiation Research</i> , 2016 , 57 Suppl 1, i90-i98 | 2.4 | 172 |
| 171 | Nicotinamide and other benzamide analogs as agents for overcoming hypoxic cell radiation resistance in tumours. A review. <i>Acta Oncologica</i> , 1995 , 34, 571-87 | 3.2 | 117 |
| 170 | Pathophysiological Basis for the Formation of the Tumor Microenvironment. <i>Frontiers in Oncology</i> , 2016 , 6, 66 | 5.3 | 105 |
| 169 | Influence of oxygen concentration and pH on expression of hypoxia induced genes. <i>Radiotherapy and Oncology</i> , 2005 , 76, 187-93 | 5.3 | 103 |
| 168 | The relationship between tumor blood flow, angiogenesis, tumor hypoxia, and aerobic glycolysis. <i>Cancer Research</i> , 2013 , 73, 5618-24 | 10.1 | 100 |
| 167 | Interaction between combretastatin A-4 disodium phosphate and radiation in murine tumors. <i>Radiotherapy and Oncology</i> , 2001 , 60, 155-61 | 5.3 | 100 |
| 166 | Hydralazine-induced enhancement of hyperthermic damage in a C3H mammary carcinoma in vivo. <i>International Journal of Hyperthermia</i> , 1989 , 5, 123-36 | 3.7 | 96 |
| 165 | Tumor Radiosensitization by Nicotinamide: A Result of Improved Perfusion and Oxygenation. <i>Radiation Research</i> , 1989 , 118, 139 | 3.1 | 96 |
| 164 | Aerobic glycolysis in cancers: implications for the usability of oxygen-responsive genes and fluorodeoxyglucose-PET as markers of tissue hypoxia. <i>International Journal of Cancer</i> , 2008 , 122, 2726-34 | 7.5 | 92 |
| 163 | Cellular uptake of PET tracers of glucose metabolism and hypoxia and their linkage. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2008 , 35, 2294-303 | 8.8 | 88 |

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| 162 | The effect of combretastatin A-4 disodium phosphate in a C3H mouse mammary carcinoma and a variety of murine spontaneous tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 1998 , 42, 895-8 | 4 | 87 |
| 161 | Hyperthermia: The Optimal Treatment to Overcome Radiation Resistant Hypoxia. <i>Cancers</i> , 2019 , 11, | 6.6 | 83 |
| 160 | Radiosensitization by Nicotinamide in Vivo: A Greater Enhancement of Tumor Damage Compared to That of Normal Tissues. <i>Radiation Research</i> , 1987 , 109, 479 | 3.1 | 82 |
| 159 | Nicotinamide pharmacokinetics in humans and mice: a comparative assessment and the implications for radiotherapy. <i>Radiotherapy and Oncology</i> , 1993 , 27, 131-9 | 5.3 | 80 |
| 158 | Radiosensitivity and effect of hypoxia in HPV positive head and neck cancer cells. <i>Radiotherapy and Oncology</i> , 2013 , 108, 500-5 | 5.3 | 78 |
| 157 | Measurement of tumor oxygenation. <i>International Journal of Radiation Oncology Biology Physics</i> , 1998 , 42, 701-4 | 4 | 75 |
| 156 | Comparison of the biodistribution of two hypoxia markers [18F]FETNIM and [18F]FMISO in an experimental mammary carcinoma. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2004 , 31, 513-20 | 8.8 | 74 |
| 155 | Improved tumor response by combining radiation and the vascular-damaging drug 5,6-dimethylxanthenone-4-acetic acid. <i>Radiation Research</i> , 2001 , 156, 503-9 | 3.1 | 72 |
| 154 | Differential risk assessments from five hypoxia specific assays: The basis for biologically adapted individualized radiotherapy in advanced head and neck cancer patients. <i>Radiotherapy and Oncology</i> , 2007 , 83, 389-97 | 5.3 | 71 |
| 153 | Modulation of the tumor vasculature and oxygenation to improve therapy. <i>Pharmacology & Therapeutics</i> , 2015 , 153, 107-24 | 13.9 | 70 |
| 152 | Vascular targeted therapies in oncology. <i>Cell and Tissue Research</i> , 2009 , 335, 241-8 | 4.2 | 70 |
| 151 | Improving efficacy of hyperthermia in oncology by exploiting biological mechanisms. <i>International Journal of Hyperthermia</i> , 2016 , 32, 446-54 | 3.7 | 70 |
| 150 | Imaging hypoxia in xenografted and murine tumors with 18F-fluoroazomycin arabinoside: a comparative study involving microPET, autoradiography, PO ₂ -polarography, and fluorescence microscopy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 70, 1202-12 | 4 | 69 |
| 149 | Mechanism of action of the selective tumor radiosensitizer nicotinamide. <i>International Journal of Radiation Oncology Biology Physics</i> , 1988 , 15, 685-90 | 4 | 69 |
| 148 | Relationship between radiobiological hypoxia in tumors and electrode measurements of tumor oxygenation. <i>International Journal of Radiation Oncology Biology Physics</i> , 1994 , 29, 439-42 | 4 | 68 |
| 147 | Improving the radiation response in a C3H mouse mammary carcinoma by normobaric oxygen or carbogen breathing. <i>International Journal of Radiation Oncology Biology Physics</i> , 1992 , 22, 415-9 | 4 | 68 |
| 146 | Relationship between radiobiological hypoxia and direct estimates of tumour oxygenation in a mouse tumour model. <i>Radiotherapy and Oncology</i> , 1993 , 28, 69-71 | 5.3 | 67 |
| 145 | Combretastatin A-4 disodium phosphate: a vascular targeting agent that improves that improves the anti-tumor effects of hyperthermia, radiation, and mild thermoradiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2001 , 51, 1018-24 | 4 | 64 |

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| 144 | Tissue physiology and the response to heat. <i>International Journal of Hyperthermia</i> , 2006 , 22, 197-203 | 3.7 | 61 |
| 143 | Targeting tumor blood vessels: an adjuvant strategy for radiation therapy. <i>Radiotherapy and Oncology</i> , 2000 , 57, 5-12 | 5.3 | 59 |
| 142 | Vascular targeting effects of ZD6126 in a C3H mouse mammary carcinoma and the enhancement of radiation response. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003 , 57, 1047-55 | 4 | 57 |
| 141 | Reducing acute and chronic hypoxia in tumours by combining nicotinamide with carbogen breathing. <i>Acta Oncologica</i> , 1994 , 33, 371-6 | 3.2 | 57 |
| 140 | Hypoxia induced expression of endogenous markers in vitro is highly influenced by pH. <i>Radiotherapy and Oncology</i> , 2007 , 83, 362-6 | 5.3 | 56 |
| 139 | Combination of vascular targeting agents with thermal or radiation therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2002 , 54, 1518-23 | 4 | 56 |
| 138 | Assessment of hypoxia in experimental mice tumours by [18F]fluoromisonidazole PET and pO ₂ electrode measurements. Influence of tumour volume and carbogen breathing. <i>Acta Oncologica</i> , 2002 , 41, 304-12 | 3.2 | 56 |
| 137 | The potentiation of radiation damage by nicotinamide in the SCCVII tumour in vivo. <i>Radiotherapy and Oncology</i> , 1990 , 18, 49-57 | 5.3 | 56 |
| 136 | Resolution in PET hypoxia imaging: voxel size matters. <i>Acta Oncologica</i> , 2008 , 47, 1201-10 | 3.2 | 55 |
| 135 | Tumor Hypoxia: Impact on Radiation Therapy and Molecular Pathways. <i>Frontiers in Oncology</i> , 2020 , 10, 562 | 5.3 | 54 |
| 134 | Identifying pH independent hypoxia induced genes in human squamous cell carcinomas in vitro. <i>Acta Oncologica</i> , 2010 , 49, 895-905 | 3.2 | 52 |
| 133 | Current development status of small-molecule vascular disrupting agents. <i>Current Opinion in Investigational Drugs</i> , 2006 , 7, 522-8 | | 50 |
| 132 | Cancer stem cell overexpression of nicotinamide N-methyltransferase enhances cellular radiation resistance. <i>Radiotherapy and Oncology</i> , 2011 , 99, 373-8 | 5.3 | 46 |
| 131 | Effect of intratumoral heterogeneity in oxygenation status on FMISO PET, autoradiography, and electrode Po ₂ measurements in murine tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 62, 854-61 | 4 | 45 |
| 130 | Can hypoxia-PET map hypoxic cell density heterogeneity accurately in an animal tumor model at a clinically obtainable image contrast?. <i>Radiotherapy and Oncology</i> , 2009 , 92, 429-36 | 5.3 | 44 |
| 129 | Preferential tumor radiosensitization by analogs of nicotinamide and benzamide. <i>International Journal of Radiation Oncology Biology Physics</i> , 1986 , 12, 1307-10 | 4 | 43 |
| 128 | Early effects of combretastatin-A4 disodium phosphate on tumor perfusion and interstitial fluid pressure. <i>Neoplasia</i> , 2007 , 9, 108-12 | 6.4 | 42 |
| 127 | Nicotinamide as a radiosensitizer in tumours and normal tissues: the importance of drug dose and timing. <i>Radiotherapy and Oncology</i> , 1997 , 45, 167-74 | 5.3 | 40 |

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| 126 | Radiosensitization by nicotinamide in tumors and normal tissues: the importance of tissue oxygenation status. <i>International Journal of Radiation Oncology Biology Physics</i> , 1989 , 16, 1273-6 | 4 | 40 |
| 125 | Relationship between the hydralazine-induced changes in murine tumor blood supply and mouse blood pressure. <i>International Journal of Radiation Oncology Biology Physics</i> , 1992 , 22, 455-8 | 4 | 39 |
| 124 | The importance of determining necrotic fraction when studying the effect of tumour volume on tissue oxygenation. <i>Acta Oncologica</i> , 1995 , 34, 297-300 | 3.2 | 37 |
| 123 | The radiation response of KHT sarcomas following nicotinamide treatment and carbogen breathing. <i>Radiotherapy and Oncology</i> , 1994 , 31, 117-22 | 5.3 | 36 |
| 122 | Influence of carboxyhemoglobin level on tumor growth, blood flow, and radiation response in an experimental model. <i>International Journal of Radiation Oncology Biology Physics</i> , 1992 , 22, 421-4 | 4 | 36 |
| 121 | Relative biological effectiveness (RBE) and distal edge effects of proton radiation on early damage in vivo. <i>Acta Oncologica</i> , 2017 , 56, 1387-1391 | 3.2 | 35 |
| 120 | Improving local tumor control by combining vascular targeting drugs, mild hyperthermia and radiation. <i>Acta Oncologica</i> , 2001 , 40, 497-503 | 3.2 | 34 |
| 119 | Biochemical and physiological changes induced by nicotinamide in a C3H mouse mammary carcinoma and CDF1 mice. <i>International Journal of Radiation Oncology Biology Physics</i> , 1992 , 22, 451-4 | 4 | 34 |
| 118 | Assessing radiation response using hypoxia PET imaging and oxygen sensitive electrodes: a preclinical study. <i>Radiotherapy and Oncology</i> , 2011 , 99, 418-23 | 5.3 | 33 |
| 117 | Intravenous administration of Gd-DTPA prior to DWI does not affect the apparent diffusion constant. <i>Magnetic Resonance Imaging</i> , 2005 , 23, 685-9 | 3.3 | 33 |
| 116 | Matrix metalloproteinase-9 measured in urine from bladder cancer patients is an independent prognostic marker of poor survival. <i>Acta Oncologica</i> , 2010 , 49, 1283-7 | 3.2 | 32 |
| 115 | Dynamic Contrast-Enhanced Magnetic Resonance Imaging (DCE-MRI) in Preclinical Studies of Antivascular Treatments. <i>Pharmaceutics</i> , 2012 , 4, 563-89 | 6.4 | 31 |
| 114 | Assessing hypoxia in animal tumor models based on pharmacokinetic analysis of dynamic FAZA PET. <i>Acta Oncologica</i> , 2010 , 49, 922-33 | 3.2 | 31 |
| 113 | Relationship of hypoxia to metallothionein expression in murine tumors. <i>International Journal of Radiation Oncology Biology Physics</i> , 1998 , 42, 727-30 | 4 | 31 |
| 112 | Proteins upregulated by mild and severe hypoxia in squamous cell carcinomas in vitro identified by proteomics. <i>Radiotherapy and Oncology</i> , 2009 , 92, 443-9 | 5.3 | 28 |
| 111 | Targeting the tumor vasculature: a strategy to improve radiation therapy. <i>Expert Review of Anticancer Therapy</i> , 2004 , 4, 321-7 | 3.5 | 28 |
| 110 | Relative biological effectiveness of carbon ions for tumor control, acute skin damage and late radiation-induced fibrosis in a mouse model. <i>Acta Oncologica</i> , 2015 , 54, 1623-30 | 3.2 | 27 |
| 109 | Prospective evaluation of angiogenic, hypoxic and EGFR-related biomarkers in recurrent glioblastoma multiforme treated with cetuximab, bevacizumab and irinotecan. <i>Apmis</i> , 2010 , 118, 585-94 | 3.4 | 27 |

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| 108 | Inhibition of tumor lactate oxidation: consequences for the tumor microenvironment. <i>Radiotherapy and Oncology</i> , 2011 , 99, 404-11 | 5.3 | 26 |
| 107 | Relationship between tumour oxygenation, bioenergetic status and radiobiological hypoxia in an experimental model. <i>Acta Oncologica</i> , 1995 , 34, 329-34 | 3.2 | 26 |
| 106 | Effect of carbon monoxide breathing on hypoxia and radiation response in the SCCVII tumor in vivo. <i>International Journal of Radiation Oncology Biology Physics</i> , 1994 , 29, 449-54 | 4 | 26 |
| 105 | Formation of radical anions of radiosensitizers and related model compounds via electrospray ionization. <i>International Journal of Mass Spectrometry</i> , 2014 , 365-366, 56-63 | 1.9 | 24 |
| 104 | Initial evaluation of the antitumour activity of KGP94, a functionalized benzophenone thiosemicarbazone inhibitor of cathepsin L. <i>European Journal of Medicinal Chemistry</i> , 2012 , 58, 568-72 | 6.8 | 24 |
| 103 | Combretastatin A-4 phosphate affects tumor vessel volume and size distribution as assessed using MRI-based vessel size imaging. <i>Clinical Cancer Research</i> , 2012 , 18, 6469-77 | 12.9 | 24 |
| 102 | Tumor blood flow changes induced by chemical modifiers of radiation response. <i>International Journal of Radiation Oncology Biology Physics</i> , 1992 , 22, 459-62 | 4 | 24 |
| 101 | The oxygen effect and fractionated radiotherapy 2009 , 207-216 | | 24 |
| 100 | Intravascular contrast agent-enhanced MRI measuring contrast clearance and tumor blood volume and the effects of vascular modifiers in an experimental tumor. <i>International Journal of Radiation Oncology Biology Physics</i> , 2005 , 61, 1208-15 | 4 | 23 |
| 99 | Overcoming tumour radiation resistance resulting from acute hypoxia. <i>European Journal of Cancer</i> , 1992 , 28A, 717-8 | 7.5 | 23 |
| 98 | Drug induced perturbations in tumor blood flow: therapeutic potential and possible limitations. <i>Radiotherapy and Oncology</i> , 1991 , 20 Suppl 1, 93-101 | 5.3 | 23 |
| 97 | The use of blood flow modifiers to improve the treatment response of solid tumors. <i>Radiotherapy and Oncology</i> , 1991 , 20 Suppl 1, 47-52 | 5.3 | 23 |
| 96 | The usability of a 15-gene hypoxia classifier as a universal hypoxia profile in various cancer cell types. <i>Radiotherapy and Oncology</i> , 2015 , 116, 346-51 | 5.3 | 22 |
| 95 | Induction of hypoxia by vascular disrupting agents and the significance for their combination with radiation therapy. <i>Acta Oncologica</i> , 2013 , 52, 1320-6 | 3.2 | 22 |
| 94 | The effect of combined nicotinamide and carbogen treatments in human tumour xenografts: oxygenation and tumour control studies. <i>Radiotherapy and Oncology</i> , 1998 , 48, 143-8 | 5.3 | 22 |
| 93 | Hypoxia as a Biomarker and for Personalized Radiation Oncology. <i>Recent Results in Cancer Research</i> , 2016 , 198, 123-42 | 1.5 | 20 |
| 92 | PET imaging of tumor hypoxia using 18F-labeled pimonidazole. <i>Acta Oncologica</i> , 2013 , 52, 1300-7 | 3.2 | 20 |
| 91 | Ischaemia induced cell death in tumors: importance of temperature and pH. <i>International Journal of Radiation Oncology Biology Physics</i> , 1994 , 29, 499-503 | 4 | 20 |

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| 90 | The measurement of radiosensitizer-induced changes in mouse tumor metabolism by ³¹ P magnetic resonance spectroscopy. <i>International Journal of Radiation Oncology Biology Physics</i> , 1991 , 20, 291-4 | 4 | 20 |
| 89 | Vascular effects of plinabulin (NPI-2358) and the influence on tumour response when given alone or combined with radiation. <i>International Journal of Radiation Biology</i> , 2011 , 87, 1126-34 | 2.9 | 18 |
| 88 | Tumour perfusion and associated physiology: characterization and significance for hyperthermia. <i>International Journal of Hyperthermia</i> , 2010 , 26, 209-10 | 3.7 | 18 |
| 87 | Non-invasive imaging of combretastatin activity in two tumor models: Association with invasive estimates. <i>Acta Oncologica</i> , 2010 , 49, 906-13 | 3.2 | 18 |
| 86 | The impact of hypoxia on the activity of lactate dehydrogenase in two different pre-clinical tumour models. <i>Acta Oncologica</i> , 2008 , 47, 941-7 | 3.2 | 18 |
| 85 | Synthesis and biochemical evaluation of benzoylbenzophenone thiosemicarbazone analogues as potent and selective inhibitors of cathepsin L. <i>Bioorganic and Medicinal Chemistry</i> , 2015 , 23, 6974-92 | 3.4 | 17 |
| 84 | APD-Containing Cyclolipodepsipeptides Target Mitochondrial Function in Hypoxic Cancer Cells. <i>Cell Chemical Biology</i> , 2018 , 25, 1337-1349.e12 | 8.2 | 17 |
| 83 | Results from C-metformin-PET scans, tissue analysis and cellular drug-sensitivity assays questions the view that biguanides affects tumor respiration directly. <i>Scientific Reports</i> , 2017 , 7, 9436 | 4.9 | 17 |
| 82 | Peritoneal macrophages mediated delivery of chitosan/siRNA nanoparticle to the lesion site in a murine radiation-induced fibrosis model. <i>Acta Oncologica</i> , 2013 , 52, 1730-8 | 3.2 | 17 |
| 81 | Preclinical studies to predict efficacy of vascular changes induced by combretastatin a-4 disodium phosphate in patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008 , 70, 859-66 | 4 | 17 |
| 80 | Relationship between radiobiological hypoxia in a C3H mouse mammary carcinoma and osteopontin levels in mouse serum. <i>International Journal of Radiation Biology</i> , 2005 , 81, 937-44 | 2.9 | 17 |
| 79 | The effects of the vascular disrupting agents combretastatin A-4 disodium phosphate, 5,6-dimethylxanthenone-4-acetic acid and ZD6126 in a murine tumour: a comparative assessment using MRI and MRS. <i>Acta Oncologica</i> , 2006 , 45, 306-16 | 3.2 | 16 |
| 78 | Radiation administered as a large single dose or in a fractionated schedule: Role of the tumour vasculature as a target for influencing response. <i>Acta Oncologica</i> , 2006 , 45, 876-80 | 3.2 | 16 |
| 77 | Evaluation of anti-vascular therapy with texture analysis. <i>Anticancer Research</i> , 2005 , 25, 3399-405 | 2.3 | 16 |
| 76 | A tissue-engineered therapeutic device inhibits tumor growth in vitro and in vivo. <i>Acta Biomaterialia</i> , 2015 , 18, 21-9 | 10.8 | 15 |
| 75 | Combretastatin-induced hypertension and the consequences for its combination with other therapies. <i>Vascular Pharmacology</i> , 2011 , 54, 13-7 | 5.9 | 15 |
| 74 | Angiogenesis and vascular targeting: relevance for hyperthermia. <i>International Journal of Hyperthermia</i> , 2008 , 24, 57-65 | 3.7 | 15 |
| 73 | Cisplatin and hyperthermia treatment of a C3H mammary carcinoma in vivo. Importance of sequence, interval, drug dose, and temperature. <i>Acta Oncologica</i> , 1992 , 31, 347-51 | 3.2 | 15 |

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| 72 | Simultaneous Hypoxia and Low Extracellular pH Suppress Overall Metabolic Rate and Protein Synthesis In Vitro. <i>PLoS ONE</i> , 2015 , 10, e0134955 | 3.7 | 15 |
| 71 | Photoelectron Spectra and Electronic Structures of the Radiosensitizer Nimorazole and Related Compounds. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 9986-95 | 2.8 | 14 |
| 70 | Enhanced local tumour control after single or fractionated radiation treatment using the hypoxic cell radiosensitizer doranidazole. <i>Radiotherapy and Oncology</i> , 2008 , 87, 331-8 | 5.3 | 14 |
| 69 | Tumour hypoxia - a characteristic feature with a complex molecular background. <i>Radiotherapy and Oncology</i> , 2006 , 81, 119-21 | 5.3 | 14 |
| 68 | Imaging of Tumor Hypoxia for Radiotherapy: Current Status and Future Directions. <i>Seminars in Nuclear Medicine</i> , 2020 , 50, 562-583 | 5.4 | 13 |
| 67 | Biodistribution of ^{99m} Tc-HYNIC-lactadherin in mice--a potential tracer for visualizing apoptosis in vivo. <i>Scandinavian Journal of Clinical and Laboratory Investigation</i> , 2010 , 70, 209-16 | 2 | 13 |
| 66 | The effect of shark cartilage extracts on the growth and metastatic spread of the SCCVII carcinoma. <i>Acta Oncologica</i> , 1998 , 37, 441-5 | 3.2 | 13 |
| 65 | Effect of radiation on cell proliferation and tumor hypoxia in HPV-positive head and neck cancer in vivo models. <i>Anticancer Research</i> , 2014 , 34, 6297-304 | 2.3 | 13 |
| 64 | The effect of combretastatin A4 disodium phosphate and 5,6-dimethylxanthenone-4-acetic acid on water diffusion and blood perfusion in tumours. <i>Acta Oncologica</i> , 2008 , 47, 1071-6 | 3.2 | 12 |
| 63 | Preclinical studies on how to deal with patient intolerance to nicotinamide and carbogen. <i>Radiotherapy and Oncology</i> , 2004 , 70, 301-9 | 5.3 | 12 |
| 62 | Acute effects of vascular modifying agents in solid tumors assessed by noninvasive laser Doppler flowmetry and near infrared spectroscopy. <i>Neoplasia</i> , 2002 , 4, 263-7 | 6.4 | 12 |
| 61 | Reliability of blood lactate as a measure of exercise intensity in different strains of mice during forced treadmill running. <i>PLoS ONE</i> , 2019 , 14, e0215584 | 3.7 | 10 |
| 60 | Ultrahigh-field DCE-MRI of angiogenesis in a novel angiogenesis mouse model. <i>Journal of Magnetic Resonance Imaging</i> , 2012 , 35, 703-10 | 5.6 | 10 |
| 59 | In vivo identification and specificity assessment of mRNA markers of hypoxia in human and mouse tumors. <i>BMC Cancer</i> , 2011 , 11, 63 | 4.8 | 10 |
| 58 | Tumourigenicity and radiation resistance of mesenchymal stem cells. <i>Acta Oncologica</i> , 2012 , 51, 669-79 | 3.2 | 10 |
| 57 | Cytotoxic effect of tumour necrosis factor -alpha on sarcoma F cells at tumour relevant oxygen tensions. <i>Acta Oncologica</i> , 1995 , 34, 423-7 | 3.2 | 10 |
| 56 | Therapeutic potential of using the vascular disrupting agent OXi4503 to enhance mild temperature thermoradiation. <i>International Journal of Hyperthermia</i> , 2015 , 31, 453-9 | 3.7 | 9 |
| 55 | Realistic biological approaches for improving thermoradiotherapy. <i>International Journal of Hyperthermia</i> , 2016 , 32, 14-22 | 3.7 | 9 |

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| 54 | Strain and tumour specific variations in the effect of hypoxia on osteopontin levels in experimental models. <i>Radiotherapy and Oncology</i> , 2006 , 80, 165-71 | 5.3 | 9 |
| 53 | Importance of nicotinamide dose on blood pressure changes in mice and humans. <i>International Journal of Radiation Oncology Biology Physics</i> , 1994 , 29, 455-8 | 4 | 9 |
| 52 | Carbogen and nicotinamide: expectations too high? (response to J. Martin Brown). <i>Radiotherapy and Oncology</i> , 1992 , 24, 121-2 | 5.3 | 9 |
| 51 | Targeting tumour hypoxia to improve outcome of stereotactic radiotherapy. <i>Acta Oncologica</i> , 2015 , 54, 1385-92 | 3.2 | 8 |
| 50 | The vascular-disrupting agent, combretastatin-A4-phosphate, enhances neurogenic vasoconstriction in rat small arteries. <i>European Journal of Pharmacology</i> , 2012 , 695, 104-11 | 5.3 | 8 |
| 49 | Segmentation of dynamic contrast enhanced magnetic resonance imaging data. <i>Acta Oncologica</i> , 2008 , 47, 1265-70 | 3.2 | 8 |
| 48 | Reoxygenation in a C3H mouse mammary carcinoma. The importance of chronic rather than acute hypoxia. <i>Acta Oncologica</i> , 1995 , 34, 325-8 | 3.2 | 8 |
| 47 | The potential of hyperpolarized C magnetic resonance spectroscopy to monitor the effect of combretastatin based vascular disrupting agents. <i>Acta Oncologica</i> , 2017 , 56, 1626-1633 | 3.2 | 7 |
| 46 | The ability of nicotinamide to inhibit the growth of a C3H mouse mammary carcinoma. <i>Acta Oncologica</i> , 1995 , 34, 443-6 | 3.2 | 7 |
| 45 | Overcoming tumour radiation resistance resulting from acute hypoxia. <i>European Journal of Cancer</i> , 1992 , 28A, 2084-5 | 7.5 | 7 |
| 44 | The combination of nicotinamide and carbogen breathing to improve tumour oxygenation prior to radiation treatment. <i>Advances in Experimental Medicine and Biology</i> , 1994 , 361, 635-42 | 3.6 | 7 |
| 43 | FDG-PET reproducibility in tumor-bearing mice: comparing a traditional SUV approach with a tumor-to-brain tissue ratio approach. <i>Acta Oncologica</i> , 2017 , 56, 706-712 | 3.2 | 6 |
| 42 | Hyperpolarized magnetic resonance spectroscopy for assessing tumor hypoxia. <i>Acta Oncologica</i> , 2015 , 54, 1393-8 | 3.2 | 6 |
| 41 | Tumors Resistant to Checkpoint Inhibitors Can Become Sensitive after Treatment with Vascular Disrupting Agents. <i>International Journal of Molecular Sciences</i> , 2020 , 21, | 6.3 | 6 |
| 40 | Enhancing the radiation response of tumors but not early or late responding normal tissues using a vascular disrupting agent. <i>Acta Oncologica</i> , 2017 , 56, 1634-1638 | 3.2 | 6 |
| 39 | Combined Modality Approaches Using Vasculature-disrupting Agents 2006 , 123-136 | | 6 |
| 38 | BW12C-induced changes in haemoglobin-oxygen affinity in mice and its influence on the radiation response of a C3H mouse mammary carcinoma. <i>Radiotherapy and Oncology</i> , 1992 , 25, 43-8 | 5.3 | 6 |
| 37 | The effect of misonidazole on the cytotoxicity and repair of potentially lethal damage from alkylating agents in vitro. <i>International Journal of Radiation Oncology Biology Physics</i> , 1982 , 8, 761-5 | 4 | 6 |

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| 36 | Proton scanning and X-ray beam irradiation induce distinct regulation of inflammatory cytokines in a preclinical mouse model. <i>International Journal of Radiation Biology</i> , 2020 , 96, 1238-1244 | 2.9 | 6 |
| 35 | Measurement of pO ₂ in a murine tumour and its correlation with hypoxic fraction. <i>Advances in Experimental Medicine and Biology</i> , 1994 , 345, 493-500 | 3.6 | 6 |
| 34 | Treatment with the vascular disrupting agent combretastatin is associated with impaired AQP2 trafficking and increased urine output. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012 , 303, R186-98 | 3.2 | 5 |
| 33 | A comparison of the physiological effects of RSU1069 and RB6145 in the SCCVII murine tumour. <i>Acta Oncologica</i> , 1996 , 35, 989-94 | 3.2 | 5 |
| 32 | A combretastatin-mediated decrease in neutrophil concentration in peripheral blood and the impact on the anti-tumor activity of this drug in two different murine tumor models. <i>PLoS ONE</i> , 2014 , 9, e110091 | 3.7 | 5 |
| 31 | Tumour radiosensitization by nicotinamide: is it the result of an improvement in tumour oxygenation?. <i>Advances in Experimental Medicine and Biology</i> , 1994 , 345, 403-9 | 3.6 | 5 |
| 30 | In vivo bio-distribution and homing of endothelial outgrowth cells in a tumour model. <i>Nuclear Medicine and Biology</i> , 2014 , 41, 848-55 | 2.1 | 4 |
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