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**Blood flow, oxygen and nutrient supply, and metabolic microenvironment of human tumors: a review**

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#	Paper	IF	Citations
2335	Novel Substances in the Treatment of Lung Cancer for the Radiation Oncologist. <b>2005</b> , 447-460		
2334	Vascular and interstitial barriers to delivery of therapeutic agents in tumors. <b>1990</b> , 9, 253-66		402
2333	Tumor tissue oxygenation as evaluated by computerized-pO <sub>2</sub> -histography. <b>1990</b> , 19, 953-61		234
2332	Hyperthermia in clinical oncology. <b>1990</b> , 26, 915-6		8
2331	Design and synthesis of cobalt(III) nitrogen mustard complexes as hypoxia selective cytotoxins. The X-ray crystal structure of bis(3-chloropentane-2,4-dionato)(RS-N,N'-bis(2-chloroethyl)ethylenediamine)cobalt(III) perchlorate, [Co(Clacac) <sub>2</sub> (bce)]ClO <sub>4</sub> . <b>1991</b> , 1171-1173		52
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2329	Dose-effect relationships for glucose-induced tumour acidification and its erythrocyte flux. <b>1991</b> , 27, 1151-4		8
2328	Pathophysiological approaches to identifying tumor hypoxia in patients. <b>1991</b> , 20 Suppl 1, 21-8		40
2327	Are cancer cells acidic?. <i>British Journal of Cancer</i> , <b>1991</b> , 64, 425-7	8.7	484
2326	Comparative imaging of structure and metabolites in tumours. <b>1991</b> , 60, 147-59		15
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2323	Tumor hypoxia can be exploited to preferentially sensitize tumors to fractionated irradiation. <b>1991</b> , 20, 457-61		75
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2320	Acute changes of systemic parameters in tumour-bearing rats, and of tumour glucose, lactate, and ATP levels upon local hyperthermia and/or hyperglycaemia. <b>1991</b> , 117, 409-15		27
2319	Enhancement of the antitumor effect of glucose oxidase by combined administration of hydrogen peroxide decomposition inhibitors together with an oxygenated fluorocarbon. <b>1991</b> , 82, 942-9		7

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2311	Tumor hypoxia, reoxygenation and oxygenation strategies: possible role in photodynamic therapy. <b>1991</b> , 11, 3-30		33
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2309	Peripheral oxygen availability within skeletal muscle in sepsis and septic shock: comparison to limited infection and cardiogenic shock. <b>1991</b> , 19, 317-23		110
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1979	Tumor hypoxia--a confounding or exploitable factor in interstitial brachytherapy? Effects of tissue trauma in an experimental rat tumor model. <b>2000</b> , 48, 233-40		7
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1974	Head and neck cancer: the importance of oxygen. <b>2000</b> , 110, 697-707		21
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1971	Non-invasive measurement of cell membrane associated proton gradients by ion-sensitive field effect transistor arrays for microphysiological and bioelectrical applications. <b>2000</b> , 15, 117-24		90
1970	Design, Synthesis and Evaluation of Imidazolymethyl Carbamate Prodrugs of Alkylating Agents. <b>2000</b> , 56, 645-657		31
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1956	Regulation of interleukin-8 expression by cellular pH in human pancreatic adenocarcinoma cells. <b>2000</b> , 20, 1023-8	44
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1953	Optical imaging as an adjunct to sonograph in differentiating benign from malignant breast lesions. <b>2000</b> , 5, 229-36	44
1952	Acidic pH inhibits non-MHC-restricted killer cell functions. <b>2000</b> , 96, 252-63	49
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1946	Molecular biology of breast cancer metastasis. Molecular expression of vascular markers by aggressive breast cancer cells. <b>2000</b> , 2, 417-22	74
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1937	Mathematical modeling of chronic hypoxia in tumors considering potential doubling time and hypoxic cell lifetime. <b>2000</b> , 54, 171-7	16
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1406	Blood supply in melanoma xenografts is governed by the morphology of the supplying arteries. <b>2009</b> , 11, 277-85	16
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1403	Monitoring of hemodynamic changes induced in the healthy breast through inspired gas stimuli with MR-guided diffuse optical imaging. <b>2010</b> , 37, 1638-46	12
1402	Designing multidrug-resistance modulators circumventing the reverse pH gradient in tumours. <b>2001</b> , 53, 1021-8	8
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1400	Combretastatin A4 phosphate: a novel vascular disrupting agent. <b>2010</b> , 6, 1219-28	74
1399	Estimation of tissue perfusion by dynamic contrast-enhanced imaging: simulation-based evaluation of the steepest slope method. <b>2010</b> , 20, 2166-75	26
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1397	Alternatives to gadolinium-based metal chelates for magnetic resonance imaging. <b>2010</b> , 110, 2960-3018	346
1396	Flower-like hierarchically nanostructured hydroxyapatite hollow spheres: facile preparation and application in anticancer drug cellular delivery. <b>2010</b> , 5, 2477-82	65
1395	Rapid detection of hypoxia-inducible factor-1-active tumours: pretargeted imaging with a protein degrading in a mechanism similar to hypoxia-inducible factor-1alpha. <b>2010</b> , 37, 1566-74	11
1394	Activation of P-glycoprotein (Pgp)-mediated drug efflux by extracellular acidosis: in vivo imaging with <sup>68</sup> Ga-labelled PET tracer. <b>2010</b> , 37, 1935-42	23
1393	[Imaging of molecular structures of breasts with new sonography techniques]. <b>2010</b> , 50, 1014-21	2
1392	In vivo factors influencing tumour M2-pyruvate kinase level in human pancreatic cancer cell lines. <b>2010</b> , 31, 69-77	12
1391	Hypocrellin B doped and pH-responsive silica nanoparticles for photodynamic therapy. <b>2010</b> , 53, 1994-1999	16
1390	Synthesis, Crystal Structure, and Rotational Energy Profile of 3-Cyclopropyl-1,2,4-benzotriazine 1,4-Di-N-oxide. <b>2010</b> , 40, 624-629	1
1389	Biomedical Nanomagnetism: A Spin Through Possibilities in Imaging, Diagnostics, and Therapy. <b>2010</b> , 46, 2523-2558	581
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1386	Stanniocalcin-2 promotes epithelial-mesenchymal transition and invasiveness in hypoxic human ovarian cancer cells. <b>2010</b> , 316, 3425-34	65
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1384	Tumour hypoxia induces a metabolic shift causing acidosis: a common feature in cancer. <b>2010</b> , 14, 771-94	422
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1382	Multi-photon resonance enhancement of third harmonic generation in human oxyhemoglobin and deoxyhemoglobin. <b>2010</b> , 3, 678-85		21
1381	Self-assembly of hyperbranched polymers and its biomedical applications. <b>2010</b> , 22, 4567-90		451
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1377	The pH-dependent association with cancer cells of tunable functionalized lipid vesicles with encapsulated doxorubicin for high cell-kill selectivity. <b>2010</b> , 31, 4409-16		35
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1375	Nanoscopy of the cellular response to hypoxia by means of fluorescence resonance energy transfer (FRET) and new FRET software. <b>2010</b> , 3, 5		8
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1372	Major vault protein forms complexes with hypoxia-inducible factor (HIF)-1 $\alpha$ and reduces HIF-1 $\alpha$ level in ACHN human renal adenocarcinoma cells. <b>2010</b> , 101, 920-6		11
1371	Warburg effect revisited: an epigenetic link between glycolysis and gastric carcinogenesis. <b>2010</b> , 29, 442-50		138
1370	Mechanistic modelling of dynamic MRI data predicts that tumour heterogeneity decreases therapeutic response. <i>British Journal of Cancer</i> , <b>2010</b> , 103, 486-97	8.7	21
1369	HIF-dependent induction of adenosine receptor A2b skews human dendritic cells to a Th2-stimulating phenotype under hypoxia. <b>2010</b> , 88, 165-71		90
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1366	Susceptibility weighted imaging (SWI) of the kidney at 3T--initial results. <b>2010</b> , 20, 143-50		14
1365	In vivo imaging of HIF-active tumors by an oxygen-dependent degradation protein probe with an interchangeable labeling system. <b>2010</b> , 5, e15736		33

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1363	Transverse flow imaging based on photoacoustic Doppler bandwidth broadening. <b>2010</b> , 15, 021304	53
1362	Longitudinal optical imaging of tumor metabolism and hemodynamics. <b>2010</b> , 15, 011112	46
1361	Spectral imaging reveals microvessel physiology and function from anastomoses to thromboses. <b>2010</b> , 15, 011111	12
1360	Inspired gas-induced vascular change in tumors with magnetic-resonance-guided near-infrared imaging: human breast pilot study. <b>2010</b> , 15, 036026	15
1359	Renal oxygenation suppresses VHL loss-induced senescence that is caused by increased sensitivity to oxidative stress. <b>2010</b> , 30, 4595-603	35
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1315	Design of acid-activated cell penetrating peptide for delivery of active molecules into cancer cells. <b>2011</b> , 22, 1410-5	70
1314	pH-Triggered Micelles for Tumor Delivery. <b>2011</b> , 1099-1131	
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1307	Hypoxia-mediated drug resistance: novel insights on the functional interaction of HIFs and cell death pathways. <b>2011</b> , 14, 191-201	426
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1304	Binding of L-selectin to its vascular and extravascular ligands is differentially regulated by pH. <b>2011</b> , 414, 437-42	4
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1296	Differentiation between hypoxic and non-hypoxic experimental tumors by dynamic contrast-enhanced magnetic resonance imaging. <b>2011</b> , 98, 360-4	33
1295	Dependence of cell survival on instantaneous dose rate of a linear accelerator. <b>2011</b> , 101, 223-5	44
1294	Perfusion estimated with rapid dynamic contrast-enhanced magnetic resonance imaging correlates inversely with vascular endothelial growth factor expression and pimonidazole staining in head-and-neck cancer: a pilot study. <b>2011</b> , 81, 1176-83	58
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1285	Pathophysiological and Vascular Characteristics of Solid Tumors in Relation to Drug Delivery. <b>2011</b> , 33-64	1
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632	MELK expression correlates with tumor mitotic activity but is not required for cancer growth. <b>2018</b> , 7,		43
631	Historical development of drug delivery systems: From conventional macroscale to controlled, targeted, and responsive nanoscale systems. <b>2018</b> , 3-41		13
630	Stimuli-Responsive Prodrug Chemistries for Drug Delivery. <b>2018</b> , 1, 1800030		34
629	All-optical photoacoustic Doppler transverse blood flow imaging. <b>2018</b> , 43, 2442-2445		10
628	Kinomic profiling of glioblastoma cells reveals PLCG1 as a target in restricted glucose. <b>2018</b> , 6, 22		7
627	Image-guided surgery using near-infrared Turn-ON fluorescent nanoprobe for precise detection of tumor margins. <b>2018</b> , 8, 3437-3460		39



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625	Aspartate is a limiting metabolite for cancer cell proliferation under hypoxia and in tumours. <b>2018</b> , 20, 775-781	169
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622	The Role of TRP Channels in the Metastatic Cascade. <b>2018</b> , 11,	40
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616	Graphene oxide-hydroxyapatite nanocomposites effectively deliver HSV-TK suicide gene to inhibit human breast cancer growth. <b>2018</b> , 33, 216-226	13
615	Self-assembled amphiphilic chitosan nanoparticles for quercetin delivery to breast cancer cells. <b>2018</b> , 131, 203-210	37
614	Synthesis of dihydronaphthalene analogues inspired by combretastatin A-4 and their biological evaluation as anticancer agents. <b>2018</b> , 9, 1649-1662	11
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440	Peptide-Based Nanoparticles Mimic Fibrillogenesis of Laminin in Tumor Vessels for Precise Embolization. <i>ACS Nano</i> , <b>2020</b> , 14, 7170-7180	16.7	21
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429	Ratiometric Nanoparticle Probe Based on FRET-Amplified Phosphorescence for Oxygen Sensing with Minimal Phototoxicity. <b>2020</b> , 16, e2002494		21

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427	Selective cytotoxicity of marine-derived fungal metabolite (3S,6S)-3,6-dibenzylpiperazine-2,5-dione against cancer cells adapted to nutrient starvation. <b>2020</b> , 73, 873-875		4
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270	Positron Emission Tomography Measurement of Drug Kinetics. <b>2007</b> , 169-204		1
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