Hironobu Yasui

List of Publications by Year
in descending order

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72	2,128	331538 21	254106 43
papers	citations	h-index	g-index

74	74	74	3495
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ionizing radiation induces mitochondrial reactive oxygen species production accompanied by upregulation of mitochondrial electron transport chain function and mitochondrial content under control of the cell cycle checkpoint. Free Radical Biology and Medicine, 2012, 53, 260-270.	1.3	314
2	Imaging Cycling Tumor Hypoxia. Cancer Research, 2010, 70, 10019-10023.	0.4	183
3	Low-Field Magnetic Resonance Imaging to Visualize Chronic and Cycling Hypoxia in Tumor-Bearing Mice. Cancer Research, 2010, 70, 6427-6436.	0.4	120
4	Antiangiogenic Agent Sunitinib Transiently Increases Tumor Oxygenation and Suppresses Cycling Hypoxia. Cancer Research, 2011, 71, 6350-6359.	0.4	120
5	Erastin, a ferroptosis-inducing agent, sensitized cancer cells to X-ray irradiation via glutathione starvation in vitro and in vivo. PLoS ONE, 2019, 14, e0225931.	1.1	98
6	ER stress suppresses DNA doubleâ€strand break repair and sensitizes tumor cells to ionizing radiation by stimulating proteasomal degradation of Rad51. FEBS Letters, 2013, 587, 3348-3353.	1.3	92
7	Redox regulation in radiation-induced cytochrome c release from mitochondria of human lung carcinoma A549 cells. Cancer Letters, 2009, 277, 64-71.	3.2	91
8	Simultaneous imaging of tumor oxygenation and microvascular permeability using Overhauser enhanced MRI. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17898-17903.	3.3	87
9	Radiosensitization of tumor cells through endoplasmic reticulum stress induced by PEGylated nanogel containing gold nanoparticles. Cancer Letters, 2014, 347, 151-158.	3.2	64
10	Electron Paramagnetic Resonance Imaging of Tumor pO₂. Radiation Research, 2012, 177, 376-386.	0.7	61
11	EPR oxygen imaging and hyperpolarized ¹³C MRI of pyruvate metabolism as noninvasive biomarkers of tumor treatment response to a glycolysis inhibitor 3â€bromopyruvate. Magnetic Resonance in Medicine, 2013, 69, 1443-1450.	1.9	44
12	Vincristine enhances amoeboid-like motility via GEF-H1/RhoA/ROCK/Myosin light chain signaling in MKN45 cells. BMC Cancer, 2012, 12, 469.	1.1	36
13	Inhibition of the mitochondrial fission protein dynamin-related protein 1 (Drp1) impairs mitochondrial fission and mitotic catastrophe after x-irradiation. Molecular Biology of the Cell, 2015, 26, 4607-4617.	0.9	35
14	FTY720 Protects Against Ischemiaâ€“Reperfusion Injury by Preventing the Redistribution of Tight Junction Proteins and Decreases Inflammation in the Subacute Phase in an Experimental Stroke Model. Translational Stroke Research, 2020, 11, 1103-1116.	2.3	34
15	Inhibition of HIF-1Î± by the anticancer drug TAS106 enhances X-ray-induced apoptosis in vitro and in vivo. British Journal of Cancer, 2008, 99, 1442-1452.	2.9	31
16	Lipophilic triphenylphosphonium derivatives enhance radiation-induced cell killing via inhibition of mitochondrial energy metabolism in tumor cells. Cancer Letters, 2017, 390, 160-167.	3.2	30
17	Radiation-induced nitric oxide mitigates tumor hypoxia and radioresistance in a murine SCCVII tumor model. Biochemical and Biophysical Research Communications, 2013, 437, 420-425.	1.0	29
18	In Vivo Extracellular pH Mapping of Tumors Using Electron Paramagnetic Resonance. Analytical Chemistry, 2018, 90, 13938-13945.	3.2	29

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19	Roles of ROS and PKC-Î²II in ionizing radiation-induced eNOS activation in human vascular endothelial cells. Vascular Pharmacology, 2015, 70, 55-65.	1.0	28
20	Visualization of the protective ability of a free radical trapping compound against rat C6 and F98 gliomas with diffusion tensor fiber tractography. Journal of Magnetic Resonance Imaging, 2008, 28, 574-587.	1.9	25
21	Inhibition of xanthine oxidase in the acute phase of myocardial infarction prevents skeletal muscle abnormalities and exercise intolerance. Cardiovascular Research, 2021, 117, 805-819.	1.8	25
22	Evaluation of the relative biological effectiveness of spot-scanning proton irradiation in vitro. Journal of Radiation Research, 2016, 57, 307-311.	0.8	24
23	Radiation-induced apoptosis of tumor cells is facilitated by inhibition of the interaction between Survivin and Smac/DIABLO. Cancer Letters, 2008, 259, 71-81.	3.2	23
24	A Novel PET Probe â€œ[18F]DiFAâ€•Accumulates in Hypoxic Region via Glutathione Conjugation Following Reductive Metabolism. Molecular Imaging and Biology, 2019, 21, 122-129.	1.3	22
25	Longitudinal Imaging Studies of Tumor Microenvironment in Mice Treated with the mTOR Inhibitor Rapamycin. PLoS ONE, 2012, 7, e49456.	1.1	22
26	Biodistribution and radiation dosimetry of the novel hypoxia PET probe [18F]DiFA and comparison with [18F]FMISO. EJNMMI Research, 2019, 9, 60.	1.1	21
27	A nucleoside anticancer drug, 1-(3-C-ethynyl-Î²-D-ribo-pentofuranosyl)cytosine (TAS106), sensitizes cells to radiation by suppressing BRCA2 expression. Molecular Cancer, 2011, 10, 92.	7.9	20
28	Analysis of the mechanism of radiation-induced upregulation of mitochondrial abundance in mouse fibroblasts. Journal of Radiation Research, 2017, 58, 292-301.	0.8	20
29	Activation of eNOS in endothelial cells exposed to ionizing radiation involves components of the DNA damage response pathway. Biochemical and Biophysical Research Communications, 2015, 456, 541-546.	1.0	19
30	AntiÂPD-1 treatment increases [18F]FDG uptake by cancer cells in a mouse B16F10 melanoma model. EJNMMI Research, 2018, 8, 82.	1.1	18
31	[18F]DPA-714 PET imaging shows immunomodulatory effect of intravenous administration of bone marrow stromal cells after transient focal ischemia. EJNMMI Research, 2018, 8, 35.	1.1	18
32	DNA damage response in vascular endothelial senescence: Implication for radiation-induced cardiovascular diseases. Journal of Radiation Research, 2021, 62, 564-573.	0.8	18
33	Metabolic analysis of radioresistant medulloblastoma stem-like clones and potential therapeutic targets. PLoS ONE, 2017, 12, e0176162.	1.1	17
34	Downregulation of the DNA repair enzyme apurinic/apyrimidinic endonuclease 1 stimulates transforming growth factor-Î²1 production and promotes actin rearrangement. Biochemical and Biophysical Research Communications, 2015, 461, 35-41.	1.0	16
35	Quantitative imaging of pO₂ in orthotopic murine gliomas: hypoxia correlates with resistance to radiation. Free Radical Research, 2017, 51, 861-871.	1.5	16
36	3-Methyl pyruvate enhances radiosensitivity through increasing mitochondria-derived reactive oxygen species in tumor cell lines. Journal of Radiation Research, 2014, 55, 455-463.	0.8	15

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37	The Adjuvant Effect of Squalene, an Active Ingredient of Functional Foods, on Doxorubicin-Treated Allograft Mice. Nutrition and Cancer, 2019, 71, 1153-1164.	0.9	15
38	Treatment Combining X-Irradiation and a Ribonucleoside Anticancer Drug, TAS106, Effectively Suppresses the Growth of Tumor Cells Transplanted in Mice. International Journal of Radiation Oncology Biology Physics, 2007, 68, 218-228.	0.4	14
39	In vivo tumour extracellular pH monitoring using electron paramagnetic resonance: the effect of Xâ€ray irradiation. NMR in Biomedicine, 2014, 27, 453-458.	1.6	14
40	Feasibility of in vivo three-dimensional T*2 mapping using dicarboxy-PROXYL and CW-EPR-based single-point imaging. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2017, 30, 291-298.	1.1	13
41	Characterization of brown adipose tissue thermogenesis in the naked mole-rat (Heterocephalus) Tj ETQq1 1 0.784314 rgBT /Overlock	1.6	13
42	KDM2B promotes cell viability by enhancing DNA damage response in canine hemangiosarcoma. Journal of Genetics and Genomics, 2021, 48, 618-630.	1.7	13
43	Evaluation of mitochondrial redox status and energy metabolism of X-irradiated HeLa cells by LC/UV, LC/MS/MS and ESR. Free Radical Research, 2018, 52, 648-660.	1.5	12
44	Mitochondrial fission promotes radiation-induced increase in intracellular Ca2+ level leading to mitotic catastrophe in mouse breast cancer EMT6 cells. Biochemical and Biophysical Research Communications, 2020, 522, 144-150.	1.0	12
45	A New Amphiphilic Derivative, Nâ€{[4â€(Lactobionamido)methyl]benzylidene}â€• 1,1â€dimethylâ€2â€(octylsulfanyl)ethylamine Nâ€Oxide, Has a Protective Effect Against Copperâ€Induced Fulminant Hepatitis in Longâ€“Evans Cinnamon Rats at an Extremely Low Concentration Compared with Its Original Form Î±â€Phenylâ€Nâ€(tertâ€butyl) Nitrone. Chemistry and Biodiversity, 2007, 4, 2253-2267.	1.0	11
46	X Irradiation Combined with TNF Î±-related Apoptosis-inducing Ligand (TRAIL) Reduces Hypoxic Regions of Human Gastric Adenocarcinoma Xenografts in SCID Mice. Journal of Radiation Research, 2008, 49, 153-161.	0.8	11
47	Ataxia-Telangiectasia Mutated (ATM) Kinase Regulates eNOS Expression and Modulates Radiosensitivity in Endothelial Cells Exposed to Ionizing Radiation. Radiation Research, 2018, 189, 519-528.	0.7	10
48	Metformin preferentially enhances the radio-sensitivity of cancer stem-like cells with highly mitochondrial respiration ability in HMPOS. Molecular Therapy - Oncolytics, 2021, 22, 143-151.	2.0	10
49	Canine neutrophil dysfunction caused by downregulation of Î²2-integrin expression without mutation. Veterinary Immunology and Immunopathology, 2009, 130, 187-196.	0.5	9
50	Induction of neurite outgrowth by Î±-phenyl-N-tert-butylnitrone through nitric oxide release and Ras-ERK pathway in PC12 cells. Free Radical Research, 2010, 44, 645-654.	1.5	9
51	The prospective application of a hypoxic radiosensitizer, doranidazole to rat intracranial glioblastoma with blood brain barrier disruption. BMC Cancer, 2013, 13, 106.	1.1	9
52	Oral administration of Antioxidant Biofactor (AOBâ„¢) ameliorates ischemia/reperfusioninduced neuronal death in the gerbil. BioFactors, 2007, 29, 113-121.	2.6	8
53	Differentiation of bone marrowâ€derived cells toward thermogenic adipocytes in white adipose tissue induced by the Î²3 adrenergic stimulation. FASEB Journal, 2019, 33, 5196-5207.	0.2	8
54	Enhancement of Cell Death by TNF Î±-related Apoptosis-inducing Ligand (TRAIL) in Human Lung Carcinoma A549 Cells Exposed to X Rays under Hypoxia. Journal of Radiation Research, 2007, 48, 461-468.	0.8	7

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55	A novel copper(II) coordination at His186 in full-length murine prion protein. Biochemical and Biophysical Research Communications, 2010, 394, 522-528.	1.0	7
56	Dynamic PET evaluation of elevated FLT level after sorafenib treatment in mice bearing human renal cell carcinoma xenograft. EJNMMI Research, 2016, 6, 90.	1.1	7
57	Genotoxic Responses of Mitochondrial Oxygen Consumption Rate and Mitochondrial Semiquinone Radicals in Tumor Cells. Applied Magnetic Resonance, 2018, 49, 837-851.	0.6	7
58	High drug efflux pump capacity and low DNA damage response induce doxorubicin resistance in canine hemangiosarcoma cell lines. Research in Veterinary Science, 2019, 127, 1-10.	0.9	6
59	Effect of MPS1 Inhibition on Genotoxic Stress Responses in Murine Tumour Cells. Anticancer Research, 2016, 36, 2783-92.	0.5	6
60	8-Aminoadenosine Enhances Radiation-induced Cell Death in Human Lung Carcinoma A549 Cells. Journal of Radiation Research, 2011, 52, 456-463.	0.8	5
61	Transferrin-based radiolabeled probe predicts the sensitivity of human renal cancer cell lines to ferroptosis inducer erastin. Biochemistry and Biophysics Reports, 2021, 26, 100957.	0.7	4
62	LAT1 inhibitor JPH203 sensitizes cancer cells to radiation by enhancing radiation-induced cellular senescence. Translational Oncology, 2021, 14, 101212.	1.7	4
63	A Nucleoside Anticancer Drug, 1-(3-C-Ethynyl-Î²-D-Ribo-Pentofuranosyl)Cytosine, Induces Depth-Dependent Enhancement of Tumor Cell Death in Spread-Out Bragg Peak (SOBP) of Proton Beam. PLoS ONE, 2016, 11, e0166848.	1.1	4
64	Radiation-induced abnormal centrosome amplification and mitotic catastrophe in human cervical tumor HeLa cells and murine mammary tumor EMT6 cells. Journal of Clinical Biochemistry and Nutrition, 2020, 67, 240-247.	0.6	4
65	Nucleoside analogs as a radiosensitizer modulating DNA repair, cell cycle checkpoints, and apoptosis. Nucleosides, Nucleotides and Nucleic Acids, 2020, 39, 439-452.	0.4	3
66	Redox-Sensitive Mapping of a Mouse Tumor Model Using Sparse Projection Sampling of Electron Paramagnetic Resonance. Antioxidants and Redox Signaling, 2021, , .	2.5	2
67	Preclinical studies for improving radiosensitivity of non-small cell lung cancer cell lines by combining glutaminase inhibition and senolysis. Translational Oncology, 2022, 21, 101431.	1.7	2
68	EPR oxygen imaging and hyperpolarized 13 C MRI of pyruvate metabolism as noninvasive biomarkers of tumor treatment response to a glycolysis inhibitor 3-bromopyruvate. Magnetic Resonance in Medicine, 2013, 69, spcone-spcone.	1.9	1
69	Preclinical study on hypoxic radiosensitizing effects of glycididazole in comparison with those of doranidazole inÃ¯Â¿Â½vitro and inÃ¯Â¿Â½vivo. Oncology Letters, 2017, 15, 1993-1998.	0.8	1
70	Eribulin improves tumor oxygenation demonstrated by 18F-DiFA hypoxia imaging, leading to radio-sensitization in human cancer xenograft models. European Journal of Nuclear Medicine and Molecular Imaging, 2022, 49, 821-833.	3.3	1
71	Continuous monitoring of postâ€irradiation reoxygenation and cycling hypoxia using electron paramagnetic resonance imaging. NMR in Biomedicine, 0, , .	1.6	1
72	Preclinical investigation of potential use of thymidine phosphorylase-targeting tracer for diagnosis of nonalcoholic steatohepatitis. Nuclear Medicine and Biology, 2020, 82-83, 25-32.	0.3	0