

Hironobu Yasui

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69

papers

1,610

citations

19

h-index

38

g-index

74

ext. papers

1,931

ext. citations

4.9

avg, IF

4.35

L-index

#	Paper	IF	Citations
69	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. <i>Free Radical Biology and Medicine</i> , 2012 , 53, 260-70	7.8	251
68	Imaging cycling tumor hypoxia. <i>Cancer Research</i> , 2010 , 70, 10019-23	10.1	132
67	Antiangiogenic agent sunitinib transiently increases tumor oxygenation and suppresses cycling hypoxia. <i>Cancer Research</i> , 2011 , 71, 6350-9	10.1	104
66	Low-field magnetic resonance imaging to visualize chronic and cycling hypoxia in tumor-bearing mice. <i>Cancer Research</i> , 2010 , 70, 6427-36	10.1	101
65	Redox regulation in radiation-induced cytochrome c release from mitochondria of human lung carcinoma A549 cells. <i>Cancer Letters</i> , 2009 , 277, 64-71	9.9	79
64	ER stress suppresses DNA double-strand break repair and sensitizes tumor cells to ionizing radiation by stimulating proteasomal degradation of Rad51. <i>FEBS Letters</i> , 2013 , 587, 3348-53	3.8	77
63	Simultaneous imaging of tumor oxygenation and microvascular permeability using Overhauser enhanced MRI. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 17898-903	11.5	74
62	Radiosensitization of tumor cells through endoplasmic reticulum stress induced by PEGylated nanogel containing gold nanoparticles. <i>Cancer Letters</i> , 2014 , 347, 151-8	9.9	52
61	Erastin, a ferroptosis-inducing agent, sensitized cancer cells to X-ray irradiation via glutathione starvation in vitro and in vivo. <i>PLoS ONE</i> , 2019 , 14, e0225931	3.7	51
60	Electron paramagnetic resonance imaging of tumor pO ₂ . <i>Radiation Research</i> , 2012 , 177, 376-86	3.1	44
59	EPR oxygen imaging and hyperpolarized ¹³ C MRI of pyruvate metabolism as noninvasive biomarkers of tumor treatment response to a glycolysis inhibitor 3-bromopyruvate. <i>Magnetic Resonance in Medicine</i> , 2013 , 69, 1443-50	4.4	37
58	Inhibition of HIF-1α by the anticancer drug TAS106 enhances X-ray-induced apoptosis in vitro and in vivo. <i>British Journal of Cancer</i> , 2008 , 99, 1442-52	8.7	29
57	Vincristine enhances amoeboid-like motility via GEF-H1/RhoA/ROCK/Myosin light chain signaling in MKN45 cells. <i>BMC Cancer</i> , 2012 , 12, 469	4.8	28
56	Inhibition of the mitochondrial fission protein dynamin-related protein 1 (Drp1) impairs mitochondrial fission and mitotic catastrophe after x-irradiation. <i>Molecular Biology of the Cell</i> , 2015 , 26, 4607-17	3.5	25
55	Radiation-induced nitric oxide mitigates tumor hypoxia and radioresistance in a murine SCCVII tumor model. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 437, 420-5	3.4	24
54	Roles of ROS and PKC-II in ionizing radiation-induced eNOS activation in human vascular endothelial cells. <i>Vascular Pharmacology</i> , 2015 , 70, 55-65	5.9	23
53	Radiation-induced apoptosis of tumor cells is facilitated by inhibition of the interaction between Survivin and Smac/DIABLO. <i>Cancer Letters</i> , 2008 , 259, 71-81	9.9	22

52	Visualization of the protective ability of a free radical trapping compound against rat C6 and F98 gliomas with diffusion tensor fiber tractography. <i>Journal of Magnetic Resonance Imaging</i> , 2008 , 28, 574-87 ^{5.6}	22
51	Longitudinal imaging studies of tumor microenvironment in mice treated with the mTOR inhibitor rapamycin. <i>PLoS ONE</i> , 2012 , 7, e49456	3.7 19
50	Lipophilic triphenylphosphonium derivatives enhance radiation-induced cell killing via inhibition of mitochondrial energy metabolism in tumor cells. <i>Cancer Letters</i> , 2017 , 390, 160-167	9.9 18
49	A nucleoside anticancer drug, 1-(3-C-ethynyl- β -D-ribo-pentofuranosyl)cytosine (TAS106), sensitizes cells to radiation by suppressing BRCA2 expression. <i>Molecular Cancer</i> , 2011 , 10, 92	42.1 18
48	Evaluation of the relative biological effectiveness of spot-scanning proton irradiation in vitro. <i>Journal of Radiation Research</i> , 2016 , 57, 307-11	2.4 18
47	A Novel PET Probe "[F]DiFA" Accumulates in Hypoxic Region via Glutathione Conjugation Following Reductive Metabolism. <i>Molecular Imaging and Biology</i> , 2019 , 21, 122-129	3.8 16
46	In Vivo Extracellular pH Mapping of Tumors Using Electron Paramagnetic Resonance. <i>Analytical Chemistry</i> , 2018 , 90, 13938-13945	7.8 16
45	Analysis of the mechanism of radiation-induced upregulation of mitochondrial abundance in mouse fibroblasts. <i>Journal of Radiation Research</i> , 2017 , 58, 292-301	2.4 15
44	Activation of eNOS in endothelial cells exposed to ionizing radiation involves components of the DNA damage response pathway. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 456, 541-6 ^{3.4}	15
43	FTY720 Protects Against Ischemia-Reperfusion Injury by Preventing the Redistribution of Tight Junction Proteins and Decreases Inflammation in the Subacute Phase in an Experimental Stroke Model. <i>Translational Stroke Research</i> , 2020 , 11, 1103-1116	7.8 15
42	Biodistribution and radiation dosimetry of the novel hypoxia PET probe [F]DiFA and comparison with [F]FMISO. <i>EJNMMI Research</i> , 2019 , 9, 60	3.6 14
41	[F]DPA-714 PET imaging shows immunomodulatory effect of intravenous administration of bone marrow stromal cells after transient focal ischemia. <i>EJNMMI Research</i> , 2018 , 8, 35	3.6 14
40	In vivo tumour extracellular pH monitoring using electron paramagnetic resonance: the effect of X-ray irradiation. <i>NMR in Biomedicine</i> , 2014 , 27, 453-8	4.4 14
39	Treatment combining X-irradiation and a ribonucleoside anticancer drug, TAS106, effectively suppresses the growth of tumor cells transplanted in mice. <i>International Journal of Radiation Oncology Biology Physics</i> , 2007 , 68, 218-28	4 13
38	Feasibility of in vivo three-dimensional T mapping using dicarboxy-PROXYL and CW-EPR-based single-point imaging. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2017 , 30, 291-298	2.8 12
37	Downregulation of the DNA repair enzyme apurinic/apyrimidinic endonuclease 1 stimulates transforming growth factor- β production and promotes actin rearrangement. <i>Biochemical and Biophysical Research Communications</i> , 2015 , 461, 35-41	3.4 12
36	Quantitative imaging of pO in orthotopic murine gliomas: hypoxia correlates with resistance to radiation. <i>Free Radical Research</i> , 2017 , 51, 861-871	4 11
35	Metabolic analysis of radioresistant medulloblastoma stem-like clones and potential therapeutic targets. <i>PLoS ONE</i> , 2017 , 12, e0176162	3.7 11

34	X irradiation combined with TNF alpha-related apoptosis-inducing ligand (TRAIL) reduces hypoxic regions of human gastric adenocarcinoma xenografts in SCID mice. <i>Journal of Radiation Research</i> , 2008 , 49, 153-61	2.4	11
33	A new amphiphilic derivative, N-[[4-(lactobionamido)methyl]benzylidene]-1,1-dimethyl-2-(octylsulfanyl)ethylamine N-oxide, has a protective effect against copper-induced fulminant hepatitis in Long-Evans Cinnamon rats at an extremely low concentration compared with its original form alpha-phenyl-N-(tert-butyl) nitron.	2.5	11
32	AntiPD-1 treatment increases [F]FDG uptake by cancer cells in a mouse B16F10 melanoma model. <i>EJNMMI Research</i> , 2018 , 8, 82	3.6	11
31	3-Methyl pyruvate enhances radiosensitivity through increasing mitochondria-derived reactive oxygen species in tumor cell lines. <i>Journal of Radiation Research</i> , 2014 , 55, 455-63	2.4	10
30	Inhibition of xanthine oxidase in the acute phase of myocardial infarction prevents skeletal muscle abnormalities and exercise intolerance. <i>Cardiovascular Research</i> , 2021 , 117, 805-819	9.9	10
29	Ataxia-Telangiectasia Mutated (ATM) Kinase Regulates eNOS Expression and Modulates Radiosensitivity in Endothelial Cells Exposed to Ionizing Radiation. <i>Radiation Research</i> , 2018 , 189, 519-528 ²¹	3.1	9
28	Evaluation of mitochondrial redox status and energy metabolism of X-irradiated HeLa cells by LC/UV, LC/MS/MS and ESR. <i>Free Radical Research</i> , 2018 , 52, 648-660	4	8
27	The prospective application of a hypoxic radiosensitizer, doranidazole to rat intracranial glioblastoma with blood brain barrier disruption. <i>BMC Cancer</i> , 2013 , 13, 106	4.8	8
26	Induction of neurite outgrowth by alpha-phenyl-N-tert-butyl nitron through nitric oxide release and Ras-ERK pathway in PC12 cells. <i>Free Radical Research</i> , 2010 , 44, 645-54	4	8
25	Canine neutrophil dysfunction caused by downregulation of beta2-integrin expression without mutation. <i>Veterinary Immunology and Immunopathology</i> , 2009 , 130, 187-96	2	8
24	Mitochondrial fission promotes radiation-induced increase in intracellular Ca level leading to mitotic catastrophe in mouse breast cancer EMT6 cells. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 522, 144-150	3.4	8
23	Differentiation of bone marrow-derived cells toward thermogenic adipocytes in white adipose tissue induced by the β adrenergic stimulation. <i>FASEB Journal</i> , 2019 , 33, 5196-5207	0.9	8
22	The Adjuvant Effect of Squalene, an Active Ingredient of Functional Foods, on Doxorubicin-Treated Allograft Mice. <i>Nutrition and Cancer</i> , 2019 , 71, 1153-1164	2.8	7
21	Dynamic PET evaluation of elevated FLT level after sorafenib treatment in mice bearing human renal cell carcinoma xenograft. <i>EJNMMI Research</i> , 2016 , 6, 90	3.6	7
20	Enhancement of cell death by TNF alpha-related apoptosis-inducing ligand (TRAIL) in human lung carcinoma A549 cells exposed to x rays under hypoxia. <i>Journal of Radiation Research</i> , 2007 , 48, 461-8	2.4	7
19	Oral administration of Antioxidant Biofactor (AOBtrade mark) ameliorates ischemia/reperfusion-induced neuronal death in the gerbil. <i>BioFactors</i> , 2007 , 29, 113-21	6.1	7
18	Characterization of brown adipose tissue thermogenesis in the naked mole-rat (<i>Heterocephalus glaber</i>), a heterothermic mammal. <i>Scientific Reports</i> , 2020 , 10, 19488	4.9	7
17	Genotoxic Responses of Mitochondrial Oxygen Consumption Rate and Mitochondrial Semiquinone Radicals in Tumor Cells. <i>Applied Magnetic Resonance</i> , 2018 , 49, 837-851	0.8	6

16	Effect of MPS1 Inhibition on Genotoxic Stress Responses in Murine Tumour Cells. <i>Anticancer Research</i> , 2016 , 36, 2783-92	2.3	6
15	A novel copper(II) coordination at His186 in full-length murine prion protein. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 394, 522-8	3.4	5
14	A Nucleoside Anticancer Drug, 1-(3-C-Ethynyl- β -D-Ribo-Pentofuranosyl)Cytosine, Induces Depth-Dependent Enhancement of Tumor Cell Death in Spread-Out Bragg Peak (SOBP) of Proton Beam. <i>PLoS ONE</i> , 2016 , 11, e0166848	3.7	4
13	Metformin preferentially enhances the radio-sensitivity of cancer stem-like cells with highly mitochondrial respiration ability in HMPOS. <i>Molecular Therapy - Oncolytics</i> , 2021 , 22, 143-151	6.4	4
12	High drug efflux pump capacity and low DNA damage response induce doxorubicin resistance in canine hemangiosarcoma cell lines. <i>Research in Veterinary Science</i> , 2019 , 127, 1-10	2.5	2
11	8-Aminoadenosine enhances radiation-induced cell death in human lung carcinoma A549 cells. <i>Journal of Radiation Research</i> , 2011 , 52, 456-63	2.4	2
10	Radiation-induced abnormal centrosome amplification and mitotic catastrophe in human cervical tumor HeLa cells and murine mammary tumor EMT6 cells. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2020 , 67, 240-247	3.1	2
9	Nucleoside analogs as a radiosensitizer modulating DNA repair, cell cycle checkpoints, and apoptosis. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2020 , 39, 439-452	1.4	2
8	Transferrin-based radiolabeled probe predicts the sensitivity of human renal cancer cell lines to ferroptosis inducer erastin. <i>Biochemistry and Biophysics Reports</i> , 2021 , 26, 100957	2.2	2
7	KDM2B promotes cell viability by enhancing DNA damage response in canine hemangiosarcoma. <i>Journal of Genetics and Genomics</i> , 2021 , 48, 618-630	4	2
6	LAT1 inhibitor JPH203 sensitizes cancer cells to radiation by enhancing radiation-induced cellular senescence. <i>Translational Oncology</i> , 2021 , 14, 101212	4.9	1
5	DNA damage response in vascular endothelial senescence: Implication for radiation-induced cardiovascular diseases. <i>Journal of Radiation Research</i> , 2021 , 62, 564-573	2.4	0
4	Preclinical studies for improving radiosensitivity of non-small cell lung cancer cell lines by combining glutaminase inhibition and senolysis.. <i>Translational Oncology</i> , 2022 , 21, 101431	4.9	0
3	Preclinical study on hypoxic radiosensitizing effects of glycididazole in comparison with those of doranidazole and. <i>Oncology Letters</i> , 2018 , 15, 1993-1998	2.6	
2	Preclinical investigation of potential use of thymidine phosphorylase-targeting tracer for diagnosis of nonalcoholic steatohepatitis. <i>Nuclear Medicine and Biology</i> , 2020 , 82-83, 25-32	2.1	
1	Eribulin improves tumor oxygenation demonstrated by F-DiFA hypoxia imaging, leading to radio-sensitization in human cancer xenograft models. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2021 , 1	8.8	