

Takamitsu A Kato

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.

75
papers

1,111
citations

19
h-index

30
g-index

76
ext. papers

1,276
ext. citations

3.5
avg, IF

4.14
L-index

#	Paper	IF	Citations
75	Caspase-3 promotes genetic instability and carcinogenesis. <i>Molecular Cell</i> , 2015 , 58, 284-96	17.6	140
74	Recent advances in the biology of heavy-ion cancer therapy. <i>Journal of Radiation Research</i> , 2010 , 51, 365-83	2.4	106
73	Levels of gamma-H2AX Foci after low-dose-rate irradiation reveal a DNA DSB rejoining defect in cells from human ATM heterozygotes in two at families and in another apparently normal individual. <i>Radiation Research</i> , 2006 , 166, 443-53	3.1	63
72	Natural and glucosyl flavonoids inhibit poly(ADP-ribose) polymerase activity and induce synthetic lethality in BRCA mutant cells. <i>Oncology Reports</i> , 2014 , 31, 551-6	3.5	41
71	Hyperthermia inhibits homologous recombination repair and sensitizes cells to ionizing radiation in a time- and temperature-dependent manner. <i>Journal of Cellular Physiology</i> , 2013 , 228, 1473-81	7	40
70	Induction of cytotoxic and genotoxic responses by natural and novel quercetin glycosides. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2015 , 784-785, 15-22	3	38
69	Validation of ⁶⁴ Cu-ATSM damaging DNA via high-LET Auger electron emission. <i>Journal of Radiation Research</i> , 2015 , 56, 784-91	2.4	36
68	Comparison of the induction and disappearance of DNA double strand breaks and gamma-H2AX foci after irradiation of chromosomes in G1-phase or in condensed metaphase cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2008 , 639, 108-12	3.3	35
67	gamma-H2AX foci after low-dose-rate irradiation reveal atm haploinsufficiency in mice. <i>Radiation Research</i> , 2006 , 166, 47-54	3.1	30
66	A defect in DNA double strand break processing in cells from unaffected parents of retinoblastoma patients and other apparently normal humans. <i>DNA Repair</i> , 2007 , 6, 818-29	4.3	29
65	In vitro characterization of cells derived from chordoma cell line U-CH1 following treatment with X-rays, heavy ions and chemotherapeutic drugs. <i>Radiation Oncology</i> , 2011 , 6, 116	4.2	27
64	Variations in radiosensitivity among individuals: a potential impact on risk assessment?. <i>Health Physics</i> , 2009 , 97, 470-80	2.3	27
63	Genomic instability and telomere fusion of canine osteosarcoma cells. <i>PLoS ONE</i> , 2012 , 7, e43355	3.7	25
62	Monoglucosyl-rutin as a potential radioprotector in mammalian cells. <i>Molecular Medicine Reports</i> , 2014 , 10, 10-4	2.9	23
61	Histone Deacetylase Inhibitor Induced Radiation Sensitization Effects on Human Cancer Cells after Photon and Hadron Radiation Exposure. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	22
60	ASPM influences DNA double-strand break repair and represents a potential target for radiotherapy. <i>International Journal of Radiation Biology</i> , 2011 , 87, 1189-95	2.9	22
59	Signatures of DNA double strand breaks produced in irradiated G1 and G2 cells persist into mitosis. <i>Journal of Cellular Physiology</i> , 2009 , 219, 760-5	7	21

58	Ionizing radiation downregulates ASPM, a gene responsible for microcephaly in humans. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 369, 953-7	3.4	21
57	Novel function of HATs and HDACs in homologous recombination through acetylation of human RAD52 at double-strand break sites. <i>PLoS Genetics</i> , 2018 , 14, e1007277	6	19
56	Comparison of human chordoma cell-kill for 290 MeV/n carbon ions versus 70 MeV protons in vitro. <i>Radiation Oncology</i> , 2013 , 8, 91	4.2	18
55	Intrinsic Radiosensitivity and Cellular Characterization of 27 Canine Cancer Cell Lines. <i>PLoS ONE</i> , 2016 , 11, e0156689	3.7	16
54	Comparison of the bromodeoxyuridine-mediated sensitization effects between low-LET and high-LET ionizing radiation on DNA double-strand breaks. <i>Oncology Reports</i> , 2013 , 29, 2133-9	3.5	15
53	Direct DNA and PNA probe binding to telomeric regions without classical in situ hybridization. <i>Molecular Cytogenetics</i> , 2013 , 6, 42	2	15
52	A simple and rapid fluorescence in situ hybridization microwave protocol for reliable dicentric chromosome analysis. <i>Journal of Radiation Research</i> , 2013 , 54, 344-8	2.4	14
51	Ascorbic acid gives different protective effects in human cells exposed to X-rays and heavy ions. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2010 , 699, 58-61	3	13
50	Comparison of cellular lethality in DNA repair-proficient or -deficient cell lines resulting from exposure to 70 MeV/n protons or 290 MeV/n carbon ions. <i>Oncology Reports</i> , 2012 , 28, 1591-6	3.5	13
49	DNA Repair Deficient Chinese Hamster Ovary Cells Exhibiting Differential Sensitivity to Charged Particle Radiation under Aerobic and Hypoxic Conditions. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	12
48	Comparative study of radioresistance between feline cells and human cells. <i>Radiation Research</i> , 2013 , 180, 70-7	3.1	12
47	Persistence of Gamma-H2AX Foci in Bronchial Cells Correlates with Susceptibility to Radiation Associated Lung Cancer in Mice. <i>Radiation Research</i> , 2019 , 191, 67-75	3.1	11
46	Novel glyceryl glucoside is a low toxic alternative for cryopreservation agent. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 476, 359-364	3.4	10
45	PARP Inhibition by Flavonoids Induced Selective Cell Killing to BRCA2-Deficient Cells. <i>Pharmaceuticals</i> , 2017 , 10,	5.2	10
44	Differential radiosensitivity phenotypes of DNA-PKcs mutations affecting NHEJ and HRR systems following irradiation with gamma-rays or very low fluences of alpha particles. <i>PLoS ONE</i> , 2014 , 9, e93579	3.7	10
43	Design and evaluation of a novel flavonoid-based radioprotective agent utilizing monoglucosyl rutin. <i>Journal of Radiation Research</i> , 2018 , 59, 272-281	2.4	9
42	Potentially lethal damage repair in drug arrested G2-phase cells after radiation exposure. <i>Radiation Research</i> , 2014 , 182, 448-57	3.1	9
41	Hyperthermia-induced radiosensitization in CHO wild-type, NHEJ repair mutant and HR repair mutant following proton and carbon-ion exposure. <i>Oncology Letters</i> , 2015 , 10, 2828-2834	2.6	9

40	Cytotoxicity of cigarette smoke condensate is not due to DNA double strand breaks: Comparative studies using radiosensitive mutant and wild-type CHO cells. <i>International Journal of Radiation Biology</i> , 2007 , 83, 583-91	2.9	9
39	In vitro screening of radioprotective properties in the novel glucosylated flavonoids. <i>International Journal of Molecular Medicine</i> , 2016 , 38, 1525-1530	4.4	9
38	Effects of targeted phosphorylation site mutations in the DNA-PKcs phosphorylation domain on low and high LET radiation sensitivity. <i>Oncology Letters</i> , 2015 , 9, 1621-1627	2.6	8
37	p53 independent radio-sensitization of human lymphoblastoid cell lines by Hsp90 inhibitor 17-allylamino-17-demethoxygeldanamycin. <i>Oncology Reports</i> , 2010 , 23, 199-203	3.5	8
36	Monoenergetic 290 MeV/n carbon-ion beam biological lethal dose distribution surrounding the Bragg peak. <i>Scientific Reports</i> , 2019 , 9, 6157	4.9	7
35	Oxidative stress and endoreduplication induced by blue light exposure to CHO cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2019 , 841, 31-35	3	6
34	Ascorbic Acid 2-Glucoside Pretreatment Protects Cells from Ionizing Radiation, UVC, and Short Wavelength of UVB. <i>Genes</i> , 2020 , 11,	4.2	6
33	Redefining the roles of apoptotic factors in carcinogenesis. <i>Molecular and Cellular Oncology</i> , 2016 , 3, e1054550	1.2	6
32	Data for induction of cytotoxic response by natural and novel quercetin glycosides. <i>Data in Brief</i> , 2016 , 6, 262-6	1.2	6
31	Coordination of the Ser2056 and Thr2609 Clusters of DNA-PKcs in Regulating Gamma Rays and Extremely Low Fluencies of Alpha-Particle Irradiation to G/G Phase Cells. <i>Radiation Research</i> , 2017 , 187, 259-267	3.1	5
30	Radiobiological Characterization of Canine Malignant Melanoma Cell Lines with Different Types of Ionizing Radiation and Efficacy Evaluation with Cytotoxic Agents. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	5
29	Role of various DNA repair pathways in chromosomal inversion formation in CHO mutants. <i>International Journal of Radiation Biology</i> , 2015 , 91, 925-33	2.9	5
28	Relative biological effectiveness in canine osteosarcoma cells irradiated with accelerated charged particles. <i>Oncology Letters</i> , 2016 , 12, 1597-1601	2.6	5
27	Investigation of the relative biological effectiveness and uniform isobiological killing effects of irradiation with a clinical carbon SOBPs beam on DNA repair deficient CHO cells. <i>Oncology Letters</i> , 2017 , 13, 4911-4916	2.6	5
26	Evaluating the Genotoxic and Cytotoxic Effects of Thymidine Analogs, 5-Ethynyl-2'Fluorodeoxyuridine and 5-Bromo-2'Fluorodeoxyuridine to Mammalian Cells. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
25	Molecular dynamics simulation of telomeric single-stranded DNA and POT1. <i>Polymer Journal</i> , 2016 , 48, 189-195	2.7	5
24	Palmitoyl ascorbic acid 2-glucoside has the potential to protect mammalian cells from high-LET carbon-ion radiation. <i>Scientific Reports</i> , 2018 , 8, 13822	4.9	5
23	Role of LET and chromatin structure on chromosomal inversion in CHO10B2 cells. <i>Genome Integrity</i> , 2014 , 5, 1	0.8	4

22	Influence of track directions on the biological consequences in cells irradiated with high LET heavy ions. <i>International Journal of Radiation Biology</i> , 2013 , 89, 401-10	2.9	4
21	In Silico/In Vitro Hit-to-Lead Methodology Yields SMYD3 Inhibitor That Eliminates Unrestrained Proliferation of Breast Carcinoma Cells. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	4
20	High LET-Like Radiation Tracks at the Distal Side of Accelerated Proton Bragg Peak. <i>Frontiers in Oncology</i> , 2021 , 11, 690042	5.3	4
19	Exploiting DNA repair pathways for tumor sensitization, mitigation of resistance, and normal tissue protection in radiotherapy. <i>Cancer Drug Resistance (Alhambra, Calif)</i> , 2021 , 4, 244-263	4.5	4
18	DIFFERENCE IN DEGREE OF SUB-LETHAL DAMAGE RECOVERY BETWEEN CLINICAL PROTON BEAMS AND X-RAYS. <i>Radiation Protection Dosimetry</i> , 2019 , 183, 93-97	0.9	3
17	Hypersensitivity of BRCA2 deficient cells to rosemary extract explained by weak PARP inhibitory activity. <i>Scientific Reports</i> , 2017 , 7, 16704	4.9	3
16	Application of monochromatic keV X-ray source to X-ray drug delivery system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009 , 608, S47-S50	1.2	3
15	Effect of hydroxyl group position in flavonoids on inducing single-stranded DNA damage mediated by cupric ions. <i>International Journal of Molecular Medicine</i> , 2018 , 42, 658-664	4.4	3
14	The Effect of Green and Black Tea Polyphenols on Deficient Chinese Hamster Cells by Synthetic Lethality through PARP Inhibition. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	2
13	Cytotoxicity and Mutagenicity of Narrowband UVB to Mammalian Cells. <i>Genes</i> , 2020 , 11,	4.2	2
12	Sister Chromatid Exchange as a Genotoxic Stress Marker. <i>Methods in Molecular Biology</i> , 2019 , 1984, 61-68.	4.4	2
11	PNA Telomere and Centromere FISH Staining for Accurate Analysis of Radiation-Induced Chromosomal Aberrations. <i>Methods in Molecular Biology</i> , 2019 , 1984, 95-100	1.4	2
10	Human Lymphocyte Metaphase Chromosome Preparation for Radiation-Induced Chromosome Aberration Analysis. <i>Methods in Molecular Biology</i> , 2019 , 1984, 1-6	1.4	2
9	Solution Radioactivated by Hadron Radiation Can Increase Sister Chromatid Exchanges. <i>PLoS ONE</i> , 2015 , 10, e0144619	3.7	2
8	In Situ DNA Damaging Foci Analysis on Metaphase Chromosomes. <i>Methods in Molecular Biology</i> , 2019 , 1984, 87-93	1.4	1
7	Reciprocal Translocation Analysis with Whole Chromosome Painting for FISH. <i>Methods in Molecular Biology</i> , 2019 , 1984, 117-122	1.4	0
6	G2 Chromosomal Radiosensitivity Assay for Testing Individual Radiation Sensitivity. <i>Methods in Molecular Biology</i> , 2019 , 1984, 39-45	1.4	0
5	Cytotoxicity and genotoxicity of blue LED light and protective effects of AA2G in mammalian cells and associated DNA repair deficient cell lines. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2021 , 872, 503416	3	0

- 4 Electron Scattering in Conventional Cell Flask Experiments and Dose Distribution Dependency. *Scientific Reports*, **2020**, 10, 482 4.9
- 3 Micronuclei Formation Analysis After Ionizing Radiation. *Methods in Molecular Biology*, **2019**, 1984, 23-29.4
- 2 Visualization of DNA Damage and Repair by Radiations. *Atomos*, **2013**, 55, 597-601 0
- 1 Biological Effects of Monoenergetic Carbon Ions and Their Associated Secondary Particles.. *Frontiers in Oncology*, **2022**, 12, 788293 5.3