

# Teruaki Konishi

## List of Publications by Year in descending order

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Version: 2024-02-01

94  
papers

1,254  
citations

394286

19  
h-index

501076

28  
g-index

95  
all docs

95  
docs citations

95  
times ranked

1070  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Hypoxia and Proton microbeam: Role of Gap Junction Intercellular Communication in Inducing Bystander Responses on Human Lung Cancer Cells and Normal Cells. <i>Radiation Research</i> , 2022, , .   | 0.7 | 4         |
| 2  | DNA strand break induction of aqueous plasmid DNA exposed to 30 MeV protons at ultra-high dose rate. <i>Journal of Radiation Research</i> , 2022, 63, 255-260.  | 0.8 | 15        |
| 3  | Cell lines of the same anatomic site and histologic type show large variability in intrinsic radiosensitivity and relative biological effectiveness to protons and carbon ions. <i>Medical Physics</i> , 2021, 48, 3243-3261.   | 1.6 | 7         |
| 4  | Scaling parameter of the lethal effect of mammalian cells based on radiation-induced OH radicals: effectiveness of direct action in radiation therapy. <i>Journal of Radiation Research</i> , 2021, 62, 86-93.  | 0.8 | 10        |
| 5  | Electrical responses of a carbon nanotube thin-film transistor to MeV proton irradiation in air. <i>Radiation Effects and Defects in Solids</i> , 2020, 175, 440-449.   | 0.4 | 1         |
| 6  | Biologic Impact of Different Ultra-Low-Fluence Irradiations in Human Fibroblasts. <i>Life</i> , 2020, 10, 154.  | 1.1 | 3         |
| 7  | Enhanced Cell Inactivation and Double-Strand Break Induction in V79 Chinese Hamster Cells by Monochromatic X-Rays at Phosphorus K-Shell Absorption Peak. <i>Quantum Beam Science</i> , 2020, 4, 38.   | 0.6 | 0         |
| 8  | Discrimination of hydroxyl radical yields due to thermal neutrons, fast neutrons, and gamma rays in accelerator-based neutron fields. <i>Radiation Physics and Chemistry</i> , 2020, 173, 108889.   | 1.4 | 4         |
| 9  | Polyethylene moderator optimized for increasing thermal neutron flux in the NASBEE accelerator-based neutron field. <i>Radiation Measurements</i> , 2020, 137, 106358.  | 0.7 | 6         |
| 10 | Detection of alpha and $^7\text{Li}$ particles from $^{10}\text{B}(n, \alpha)^7\text{Li}$ reactions using a combination of CR-39 nuclear track detector and potassium hydroxide-ethanol-water solution in accelerator-based neutron fields. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2020, 467, 9-12. | 0.6 | 8         |
| 11 | Enhancement of Radiosensitivity by Eurycomalactone in Human NSCLC Cells Through G <sub>2</sub> /M Cell Cycle Arrest and Delayed DNA Double-Strand Break Repair. <i>Oncology Research</i> , 2020, 28, 161-175.   | 0.6 | 18        |
| 12 | Significant changes in yields of 7-hydroxy-coumarin-3-carboxylic acid produced under FLASH radiotherapy conditions. <i>RSC Advances</i> , 2020, 10, 38709-38714.  | 1.7 | 18        |
| 13 | Cytoplasmic Radiation Induced Radio-Adaptive Response in Human Lung Fibroblast WI-38 Cells. <i>Radiation Research</i> , 2020, 194, 288.   | 0.7 | 6         |
| 14 | CLIC4 regulates radioresistance of nasopharyngeal carcinoma by iNOS after $^3\text{H}$ -rays but not carbon ions irradiation. <i>American Journal of Cancer Research</i> , 2020, 10, 1400-1415.   | 1.4 | 4         |
| 15 | Overexpression of Ras-Related C3 Botulinum Toxin Substrate 2 Radiosensitizes Melanoma Cells <i>In Vitro</i> and <i>In Vivo</i> . <i>Oxidative Medicine and Cellular Longevity</i> , 2019, 2019, 1-10.   | 1.9 | 5         |
| 16 | Analysis of SPICE microbeam size using fluorescent nuclear track detector (FNTD). <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2019, 453, 9-14.   | 0.6 | 3         |
| 17 | Both irradiated and bystander effects link with DNA repair capacity and the linear energy transfer. <i>Life Sciences</i> , 2019, 222, 228-234.  | 2.0 | 9         |
| 18 | Nuclear factor (erythroid-derived 2)-like 2 antioxidative response mitigates cytoplasmic radiation-induced DNA double-strand breaks. <i>Cancer Science</i> , 2019, 110, 686-696.  | 1.7 | 13        |

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|----|--|-----|-----------|
| 19 | PB-06 Advanced microbeam irradiation system for single cell analysis of defensive cellular response against radiation. <i>Microscopy (Oxford, England)</i> , 2019, 68, i48-i48.  | 0.7 | 0         |
| 20 | Role of Endoplasmic Reticulum and Mitochondrion in Proton Microbeam Radiation-Induced Bystander Effect. <i>Radiation Research</i> , 2019, 193, 63.   | 0.7 | 18        |
| 21 | IMAGING URANIUM DISTRIBUTION ON RAT KIDNEY SECTIONS THROUGH DETECTION OF ALPHA TRACKS USING CR-39 PLASTIC NUCLEAR TRACK DETECTOR. <i>Radiation Protection Dosimetry</i> , 2019, 183, 242-246.  | 0.4 | 7         |
| 22 | BYSTANDER WI-38 CELLS MODULATE DNA DOUBLE-STRAND BREAK REPAIR IN MICROBEAM-TARGETED A549 CELLS THROUGH GAP JUNCTION INTERCELLULAR COMMUNICATION. <i>Radiation Protection Dosimetry</i> , 2019, 183, 142-146.   | 0.4 | 7         |
| 23 | DOSE-RATE AND CELL-KILLING SENSITIVITY OF HIGH-LINEAR ENERGY TRANSFER ION BEAM. <i>Radiation Protection Dosimetry</i> , 2019, 183, 219-222.  | 0.4 | 1         |
| 24 | Evidence of Local Concentration of $\alpha$ -Particles from $^{211}\text{At}$ -Labeled Antibodies in Liver Metastasis Tissue. <i>Journal of Nuclear Medicine</i> , 2019, 60, 497-501.  | 2.8 | 14        |
| 25 | Emerging Role of Secondary Bystander Effects Induced by Fractionated Proton Microbeam Radiation. <i>Radiation Research</i> , 2018, 191, 211.   | 0.7 | 9         |
| 26 | Radiation quality effects alteration in COX-2 pathway to trigger radiation-induced bystander response in A549 lung carcinoma cells. <i>Journal of Radiation Research</i> , 2018, 59, 754-759.  | 0.8 | 6         |
| 27 | 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.   | 1.5 | 25        |
| 28 | Enhanced DNA double strand break repair triggered by microbeam irradiation induced cytoplasmic damage. <i>Journal of Radiation and Cancer Research</i> , 2018, 9, 183.   | 0.0 | 5         |
| 29 | Effect of Carbon-Ion Radiation on Drug Transporters Organic Anion Transporting Polypeptides in Breast Cancer Cells. <i>Radiation Research</i> , 2017, 187, 689-700.  | 0.7 | 6         |
| 30 | Impact of Co-Culturing with Fractionated Carbon-Ion-Irradiated Cancer Cells on Bystander Normal Cells and Their Progeny. <i>Radiation Research</i> , 2017, 188, 335-341.   | 0.7 | 8         |
| 31 | Enhanced DNA double-strand break repair of microbeam targeted A549 lung carcinoma cells by adjacent WI38 normal lung fibroblast cells via bi-directional signaling. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2017, 803-805, 1-8. | 0.4 | 27        |
| 32 | Electrical properties of carbon-nanotube-network transistors in air after gamma irradiation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017, 86, 297-302.   | 1.3 | 5         |
| 33 | Upregulation of NRF2 through autophagy/ERK 1/2 ameliorates ionizing radiation induced cell death of human osteosarcoma U-2 OS. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2017, 813, 10-17.   | 0.9 | 20        |
| 34 | Equivalency of the quality of sublethal lesions after photons and high-linear energy transfer ion beams. <i>Journal of Radiation Research</i> , 2017, 58, 803-808.   | 0.8 | 7         |
| 35 | Validating $\alpha$ -particle emission from $^{211}\text{At}$ -labeled antibodies in single cells for cancer radioimmunotherapy using CR-39 plastic nuclear track detectors. <i>PLoS ONE</i> , 2017, 12, e0178472.   | 1.1 | 27        |
| 36 | A correlation of long term effects and radiation quality in the progeny of bystander cells after microbeam radiations: The experimental study of radiotherapy for cancer risk mitigation. <i>Journal of Physics: Conference Series</i> , 2017, 860, 012026.              | 0.3 | 0         |

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|----|--|-----|-----------|
| 37 | Non-induction of radioadaptive response in zebrafish embryos by neutrons. <i>Journal of Radiation Research</i> , 2016, 57, 210-219.  | 0.8 | 7         |
| 38 | G2-M phase-correlative bystander effects are co-mediated by DNA-PKcs and ATM after carbon ion irradiation. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2016, 795, 1-6.                           | 0.9 | 8         |
| 39 | Chromothripsis-like chromosomal rearrangements induced by ionizing radiation using proton microbeam irradiation system. <i>Oncotarget</i> , 2016, 7, 10182-10192.  | 0.8 | 44        |
| 40 | Co-visualization of DNA damage and ion traversals in live mammalian cells using a fluorescent nuclear track detector. <i>Journal of Radiation Research</i> , 2015, 56, 360-365.  | 0.8 | 24        |
| 41 | Cellular localization of uranium in the renal proximal tubules during acute renal uranium toxicity. <i>Journal of Applied Toxicology</i> , 2015, 35, 1594-1600.  | 1.4 | 34        |
| 42 | Total Ionizing Dose Effects in Carbon Nanotube Network Transistors. , 2015, , .  |     | 1         |
| 43 | Rescue of Targeted Nonstem-Like Cells from Bystander Stem-Like Cells in Human Fibrosarcoma HT1080. <i>Radiation Research</i> , 2015, 184, 334.   | 0.7 | 15        |
| 44 | Genetic changes in progeny of bystander human fibroblasts after microbeam irradiation with X-rays, protons or carbon ions: The relevance to cancer risk. <i>International Journal of Radiation Biology</i> , 2015, 91, 62-70.      | 1.0 | 37        |
| 45 | Target irradiation induced bystander effects between stem-like and non stem-like cancer cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2015, 773, 43-47.                                  | 0.4 | 9         |
| 46 | The differential role of human macrophage in triggering secondary bystander effects after either gamma-ray or carbon beam irradiation. <i>Cancer Letters</i> , 2015, 363, 92-100.  | 3.2 | 36        |
| 47 | On the use of CR-39 PNTD with AFM analysis in measuring proton-induced target fragmentation particles. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2015, 349, 163-168.  | 0.6 | 11        |
| 48 | Neutron induced bystander effect among zebrafish embryos. <i>Radiation Physics and Chemistry</i> , 2015, 117, 153-159.   | 1.4 | 13        |
| 49 | Micro-PIXE analysis system at NIRS-electrostatic accelerator facility for various applications. <i>International Journal of PIXE</i> , 2015, 25, 217-225.  | 0.4 | 5         |
| 50 | Abstract 3869: Exploration of mechanisms for chromothripsis by irradiation. , 2015, , .  |     | 0         |
| 51 | Abstract 1815: Bystander effect and genomic instability in human cells and their progeny after irradiation with X rays, protons or carbon ions: role of gap junction communication. , 2015, , .                                    |     | 0         |
| 52 | Roles of nitric oxide in adaptive response induced in zebrafish embryos in vivo by microbeam protons. <i>Journal of Radiation Research</i> , 2014, 55, i114-i114.  | 0.8 | 3         |
| 53 | Differential effects of p53 on bystander phenotypes induced by gamma ray and high LET heavy ion radiation. <i>Life Sciences in Space Research</i> , 2014, 1, 53-59.  | 1.2 | 19        |
| 54 | Damaging and protective bystander cross-talk between human lung cancer and normal cells after proton microbeam irradiation. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2014, 763-764, 39-44. | 0.4 | 47        |

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|----|---|-----|-----------|
| 55 | The threshold number of protons to induce an adaptive response in zebrafish embryos. <i>Journal of Radiological Protection</i> , 2013, 33, 91-100.  | 0.6 | 13        |
| 56 | Applicability of the polyimide films as an SSNTD material. <i>Radiation Measurements</i> , 2013, 50, 16-21.   | 0.7 | 9         |
| 57 | Calibration of CR-39 with atomic force microscope for the measurement of short range tracks from proton-induced target fragmentation reactions. <i>Radiation Measurements</i> , 2013, 50, 232-236.  | 0.7 | 23        |
| 58 | On the mechanism of the sensitization of PADC (poly(allyl diglycol carbonate)) track detectors by carbon dioxide treatment. <i>Radiation Measurements</i> , 2013, 59, 23-29.  | 0.7 | 17        |
| 59 | Vacuum effects on the radiation chemical yields in PADC films exposed to gamma rays and heavy ions. <i>Radiation Measurements</i> , 2013, 50, 97-102.   | 0.7 | 14        |
| 60 | Bystander Effect between Zebrafish Embryos in Vivo Induced by High-Dose X-rays. <i>Environmental Science &amp; Technology</i> , 2013, 47, 6368-6376.  | 4.6 | 28        |
| 61 | Applicability of Polyimide Films as Etched-Track Detectors for Ultra-Heavy Cosmic Ray Components. <i>Applied Physics Express</i> , 2013, 6, 046401.   | 1.1 | 14        |
| 62 | SPICE-NIRS Microbeam: a focused vertical system for proton irradiation of a single cell for radiobiological research. <i>Journal of Radiation Research</i> , 2013, 54, 736-747.   | 0.8 | 45        |
| 63 | Thresholds of Etchable Track Formation and Chemical Damage Parameters in Poly(ethylene Terephthalate) Films Irradiated with Heavy Ion Beams of Various Stopping Powers Ranging from 10 to 12,000 keV/μm. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 056301. | 0.8 | 14        |
| 64 | Greater Radiation Chemical Yields for Losses of Ether and Carbonate Ester Bonds at Lower Stopping Powers along Heavy Ion Tracks in Poly(allyl diglycol carbonate) Films. <i>Applied Physics Express</i> , 2012, 5, 086401.  | 1.1 | 11        |
| 65 | Proliferation and differentiation of neural stem cells irradiated with X-rays in logarithmic growth phase. <i>Neuroscience Research</i> , 2012, 73, 263-268.  | 1.0 | 16        |
| 66 | Mass spectrometry analysis of etch products from CR-39 plastic irradiated by heavy ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2012, 286, 229-232.   | 0.6 | 11        |
| 67 | Triphasic Low-dose Response in Zebrafish Embryos Irradiated by Microbeam Protons. <i>Journal of Radiation Research</i> , 2012, , .  | 0.8 | 17        |
| 68 | Thresholds of Etchable Track Formation and Chemical Damage Parameters in Poly(ethylene Terephthalate) Films Irradiated with Heavy Ion Beams of Various Stopping Powers Ranging from 10 to 12,000 keV/μm. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 056301. | 0.8 | 4         |
| 69 | Triphasic low-dose response in zebrafish embryos irradiated by microbeam protons. <i>Journal of Radiation Research</i> , 2012, 53, 475-81.  | 0.8 | 24        |
| 70 | Uptake of CDDP-containing Polymeric Micelles by Cells Using Particle Induced X-Ray Emission. <i>Journal of Radiation Research</i> , 2011, 52, 193-198.  | 0.8 | 2         |
| 71 | Visualization of Heavy Ion Tracks by Labeling 3'-OH Termini of Induced DNA Strand Breaks. <i>Journal of Radiation Research</i> , 2011, 52, 433-440.   | 0.8 | 17        |
| 72 | Radiation chemical yields for loss of ether and carbonate ester bonds in PADC films exposed to proton and heavy ion beams. <i>Radiation Measurements</i> , 2011, 46, 1147-1153.   | 0.7 | 36        |

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|----|--|-----|-----------|
| 73 | Micro-collimators fabricated by chemical etching of thin polyallyldiglycol carbonate polymer films exposed to oxygen ions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 631, 6-11. | 0.7 | 1         |
| 74 | EVALUATION OF THIN SECTION STANDARDS FOR LOCAL ANALYSIS OF LIGHT ELEMENTS BY MICRO-PIXE ANALYSIS. International Journal of PIXE, 2011, 21, 25-30.  | 0.4 | 5         |
| 75 | Adaptive Response in Zebrafish Embryos Induced Using Microbeam Protons as Priming Dose and X-ray Photons as Challenging Dose. Journal of Radiation Research, 2010, 51, 657-664.  | 0.8 | 31        |
| 76 | EVALUATION OF PRESSED POWDERS AND THIN SECTION STANDARDS FOR MULTI-ELEMENTAL ANALYSIS BY CONVENTIONAL AND MICRO-PIXE ANALYSIS. International Journal of PIXE, 2010, 20, 21-28.   | 0.4 | 8         |
| 77 | Effects of X-irradiation on proliferation and differentiation of neural stem cells derived from mouse embryonic stem cells. Neuroscience Research, 2010, 68, e243-e244.  | 1.0 | 0         |
| 78 | Microbeam Irradiation Facilities for Radiobiology in Japan and China. Journal of Radiation Research, 2009, 50, A29-A47.  | 0.8 | 49        |
| 79 | RUBIDIUM DISTRIBUTION IN KIDNEYS OF IMMATURE RATS. International Journal of PIXE, 2009, 19, 39-45.   | 0.4 | 12        |
| 80 | Specifications of a neutron exposure accelerator system for biological effects experiments (NASBEE) in NIRS. Radiation Physics and Chemistry, 2009, 78, 1216-1219.   | 1.4 | 14        |
| 81 | Development of a real-time beam current monitoring system for microbeam scanning-PIXE analysis using a ceramic channel electron multiplier. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2032-2035.   | 0.6 | 10        |
| 82 | Biological studies using mammalian cell lines and the current status of the microbeam irradiation system, SPICE. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2171-2175.  | 0.6 | 16        |
| 83 | Elemental imaging of kidneys of adult rats exposed to uranium acetate. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 2167-2170.  | 0.6 | 22        |
| 84 | Radiation-Induced Long-Lived Extracellular Radicals do not Contribute to Measurement of Intracellular Reactive Oxygen Species Using the Dichlorofluorescein Method. Radiation Research, 2008, 169, 469-473.  | 0.7 | 14        |
| 85 | DEVELOPMENT OF SAMPLE PREPARATION METHOD FOR ENGINE LUBRICATING OIL ANALYSIS USING IN-AIR PIXE. International Journal of PIXE, 2008, 18, 47-52.  | 0.4 | 2         |
| 86 | A New Method for the Simultaneous Detection of Mammalian Cells and Ion Tracks on a Surface of CR-39. Journal of Radiation Research, 2007, 48, 255-261.   | 0.8 | 18        |
| 87 | Progress report of the single particle irradiation system to cell (SPICE). Nuclear Instruments & Methods in Physics Research B, 2007, 260, 81-84.  | 0.6 | 22        |
| 88 | Dose distribution of carbon ions in air assessed using imaging plates and ionization chamber. Radiation Measurements, 2005, 40, 384-388.   | 0.7 | 22        |
| 89 | High-resolution nuclear track mapping in detailed cellular histology using CR-39 with the contact microscopy technique. Radiation Measurements, 2005, 40, 283-288.   | 0.7 | 16        |
| 90 | Number of Fe Ion Traversals Through a Cell Nucleus for Mammalian Cell Inactivation Near the Bragg Peak. Journal of Radiation Research, 2005, 46, 415-424.  | 0.8 | 14        |

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|----|---|-----|-----------|
| 91 | Irradiation system of ions (H <sup>+</sup> “Xe) for biological studies near the Bragg peak. Review of Scientific Instruments, 2005, 76, 114302. | 0.6 | 17        |
| 92 | Simultaneous visualization of contact microscopic image and energetic charged particle tracks and its application to medicine. , 2004, , .      |     | 1         |
| 93 | Single particle irradiation system to cell (SPICE) at NIRS. Nuclear Instruments & Methods in Physics Research B, 2003, 210, 292-295.            | 0.6 | 6         |
| 94 | Single-particle irradiation system to cell at National Institute of Radiological Sciences. International Congress Series, 2003, 1258, 281-285.  | 0.2 | 0         |