

Rupak Pathak

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Reduction of Radiation-Induced Vascular Nitrosative Stress by the Vitamin E Analog $\hat{\beta}$ -Tocotrienol: Evidence of a Role for Tetrahydrobiopterin. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 79, 884-891.	0.8	65
2	Short-term dietary methionine supplementation affects one-carbon metabolism and DNA methylation in the mouse gut and leads to altered microbiome profiles, barrier function, gene expression and histomorphology. <i>Genes and Nutrition</i> , 2017, 12, 22.	2.5	47
3	EEDP1 Rescues Stressed Replication Forks and Maintains Genome Stability by Promoting End Resection and Homologous Recombination Repair. <i>PLoS Genetics</i> , 2015, 11, e1005675.	3.5	47
4	<i>In Vitro</i> Toxicity and Epigenotoxicity of Different Types of Ambient Particulate Matter. <i>Toxicological Sciences</i> , 2015, 148, 473-487.	3.1	29
5	Densely ionizing radiation affects DNA methylation of selective LINE-1 elements. <i>Environmental Research</i> , 2016, 150, 470-481.	7.5	28
6	Inter-Strain Differences in LINE-1 DNA Methylation in the Mouse Hematopoietic System in Response to Exposure to Ionizing Radiation. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1430.	4.1	28
7	Cell killing, nuclear damage and apoptosis in Chinese hamster V79 cells after irradiation with heavy-ion beams of ^{16}O , ^{12}C and ^7Li . <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2007, 632, 58-68.	1.7	27
8	C/EBP $\hat{\beta}$ Deficiency Sensitizes Mice to Ionizing Radiation-Induced Hematopoietic and Intestinal Injury. <i>PLoS ONE</i> , 2014, 9, e94967.	2.5	27
9	Gamma-Tocotrienol Modulates Radiation-Induced MicroRNA Expression in Mouse Spleen. <i>Radiation Research</i> , 2016, 185, 485.	1.5	24
10	Liver Metabolomics Reveals Increased Oxidative Stress and Fibrogenic Potential in Gfrp Transgenic Mice in Response to Ionizing Radiation. <i>Journal of Proteome Research</i> , 2014, 13, 3065-3074.	3.7	23
11	Thrombomodulin Contributes to Gamma Tocotrienol-Mediated Lethality Protection and Hematopoietic Cell Recovery in Irradiated Mice. <i>PLoS ONE</i> , 2015, 10, e0122511.	2.5	23
12	Characterization of Transgenic <i>Gfrp</i> Knock-In Mice: Implications for Tetrahydrobiopterin in Modulation of Normal Tissue Radiation Responses. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 1436-1446.	5.4	22
13	Identification of novel breakpoints for locus- and region-specific translocations in 293 cells by molecular cytogenetics before and after irradiation. <i>Scientific Reports</i> , 2019, 9, 10554.	3.3	20
14	Low Doses of Oxygen Ion Irradiation Cause Acute Damage to Hematopoietic Cells in Mice. <i>PLoS ONE</i> , 2016, 11, e0158097.	2.5	18
15	The Vitamin E Analog Gamma-Tocotrienol (GT3) Suppresses Radiation-Induced Cytogenetic Damage. <i>Pharmaceutical Research</i> , 2016, 33, 2117-2125.	3.5	18
16	Cebpd Is Essential for Gamma-Tocotrienol Mediated Protection against Radiation-Induced Hematopoietic and Intestinal Injury. <i>Antioxidants</i> , 2018, 7, 55.	5.1	17
17	Utilization of Vitamin E Analogs to Protect Normal Tissues While Enhancing Antitumor Effects. <i>Seminars in Radiation Oncology</i> , 2019, 29, 55-61.	2.2	17
18	Combined exposure to protons and ^{56}Fe leads to overexpression of Il13 and reactivation of repetitive elements in the mouse lung. <i>Life Sciences in Space Research</i> , 2015, 7, 1-8.	2.3	16

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19	Synthetic Matrices for Intestinal Organoid Culture: Implications for Better Performance. ACS Omega, 2022, 7, 38-47.	3.5	16
20	Timing of the loss of Pten protein determines disease severity in a mouse model of myeloid malignancy. Blood, 2016, 127, 1912-1922.	1.4	15
21	Recombinant Thrombomodulin (Solulin) Ameliorates Early Intestinal Radiation Toxicity in a Preclinical Rat Model. Radiation Research, 2016, 186, 112-120.	1.5	14
22	Methionine dietary supplementation potentiates ionizing radiation-induced gastrointestinal syndrome. American Journal of Physiology - Renal Physiology, 2020, 318, G439-G450.	3.4	14
23	Gamma-Tocotrienol Protects the Intestine from Radiation Potentially by Accelerating Mesenchymal Immune Cell Recovery. Antioxidants, 2019, 8, 57.	5.1	13
24	Modulation of Radiation Response by the Tetrahydrobiopterin Pathway. Antioxidants, 2015, 4, 68-81.	5.1	12
25	Simultaneous exposure to chronic irradiation and simulated microgravity differentially alters immune cell phenotype in mouse thymus and spleen. Life Sciences in Space Research, 2021, 28, 66-73.	2.3	12
26	Enhanced Survival in Mice Exposed to Ionizing Radiation by Combination of Gamma-Tocotrienol and Simvastatin. Military Medicine, 2019, 184, 644-651.	0.8	11
27	Therapeutic potential of natural plant products and their metabolites in preventing radiation enteropathy resulting from abdominal or pelvic irradiation. International Journal of Radiation Biology, 2019, 95, 493-505.	1.8	11
28	Low doses of oxygen ion irradiation cause long-term damage to bone marrow hematopoietic progenitor and stem cells in mice. PLoS ONE, 2017, 12, e0189466.	2.5	11
29	Genotoxic effects in M5 cells and Chinese hamster V79 cells after exposure to 7Li-beam (LET=60keV/1/4m) and correlation of their survival dynamics to nuclear damages and cell death. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2007, 628, 56-66.	1.7	10
30	The Vitamin E Analog Gamma-Tocotrienol (GT3) and Statins Synergistically Up-Regulate Endothelial Thrombomodulin (TM). International Journal of Molecular Sciences, 2016, 17, 1937.	4.1	10
31	Whole body proton irradiation causes acute damage to bone marrow hematopoietic progenitor and stem cells in mice. International Journal of Radiation Biology, 2017, 93, 1312-1320.	1.8	9
32	Ionizing Radiation Activates Mitochondrial Function in Osteoclasts and Causes Bone Loss in Young Adult Male Mice. International Journal of Molecular Sciences, 2022, 23, 675.	4.1	9
33	Dietary Methionine Supplementation Exacerbates Gastrointestinal Toxicity in a Mouse Model of Abdominal Irradiation. International Journal of Radiation Oncology Biology Physics, 2021, 109, 581-593.	0.8	7
34	Fibrinogen deficiency suppresses the development of early and delayed radiation enteropathy. World Journal of Gastroenterology, 2017, 23, 4701.	3.3	6
35	NZO/HILtj as a novel model for the studies on the role of metabolic syndrome in acute radiation toxicity. International Journal of Radiation Biology, 2020, 96, 93-99.	1.8	5
36	Differential Recovery of Small Intestinal Segments after Partial-Body Irradiation in Non-Human Primates. Radiation Research, 2021, 196, 204-212.	1.5	5

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37	Dietary Methionine Deficiency Enhances Genetic Instability in Murine Immune Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2378.	4.1	4
38	Fractionated radiation suppresses Kruppel-like factor 2 pathway to a greater extent than by single exposure to the same total dose. <i>Scientific Reports</i> , 2020, 10, 7734.	3.3	4
39	Analysis of the Ambient Particulate Matter-induced Chromosomal Aberrations Using an <i>In Vitro</i> System. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	3
40	Detection of Inter-chromosomal Stable Aberrations by Multiple Fluorescence <i>In Situ</i> Hybridization (mFISH) and Spectral Karyotyping (SKY) in Irradiated Mice. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	3
41	Mitigation of late cardiovascular effects of oxygen ion radiation by $\hat{\gamma}^3$ -tocotrienol in a mouse model. <i>Life Sciences in Space Research</i> , 2021, 31, 43-50.	2.3	3
42	Platelet glycoprotein Ib provides radiation protection. <i>Radiotherapy and Oncology</i> , 2022, 167, 143-148.	0.6	1
43	Methods for induction and assessment of intestinal permeability in rodent models of radiation injury. <i>Methods in Cell Biology</i> , 2022, 168, 235-247.	1.1	1
44	Molecular Cytogenetics Reveals Mosaicism in Human Umbilical Vein Endothelial Cells. <i>Genes</i> , 2022, 13, 1012.	2.4	1
45	Plasma Metabolomics in a Nonhuman Primate Model of Abdominal Radiation Exposure. <i>Metabolites</i> , 2021, 11, 540.	2.9	0
46	Potential Use of Dietary Antioxidant to Prevent Radiation-Induced Genomic Instability. <i>MOJ Bioequivalence & Bioavailability</i> , 2015, 1, .	0.1	0
47	Particle Beam may have Higher Effectiveness in Treating Chemo-resistant Cancers than Low-LET Photon Beam Therapy. <i>Research and Reviews: Journal of Pharmacy and Pharmaceutical Sciences</i> , 2015, 4, 1-2.	0.0	0