Sally A Amundson

List of Publications by Year
in descending order

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59 papers	3,574 citations	201674 27 h-index	138484 58 g-index
63 all docs	63 docs citations	63 times ranked	2738 citing authors

#	Article	IF	Citations
1	Fluorescent cDNA microarray hybridization reveals complexity and heterogeneity of cellular genotoxic stress responses. Oncogene, 1999, 18, 3666-3672.	5.9	314
2	Mechanism of radiation-induced bystander effects: a unifying model. Journal of Pharmacy and Pharmacology, 2010, 60, 943-950.	2.4	294
3	Identification of Potential mRNA Biomarkers in Peripheral Blood Lymphocytes for Human Exposure to Ionizing Radiation. Radiation Research, 2000, 154, 342-346.	1.5	261
4	Mechanism of radiation-induced bystander effect: Role of the cyclooxygenase-2 signaling pathway. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14641-14646.	7.1	239
5	Integrating Global Gene Expression and Radiation Survival Parameters across the 60 Cell Lines of the National Cancer Institute Anticancer Drug Screen. Cancer Research, 2008, 68, 415-424.	0.9	226
6	Development of Gene Expression Signatures for Practical Radiation Biodosimetry. International Journal of Radiation Oncology Biology Physics, 2008, 71, 1236-1244.e76.	0.8	212
7	Human In vivo Radiation-Induced Biomarkers. Cancer Research, 2004, 64, 6368-6371.	0.9	202
8	Differential responses of stress genes to low dose-rate gamma irradiation. Molecular Cancer Research, 2003, 1, 445-52.	3.4	177
9	Stress-specific signatures: expression profiling of p53 wild-type and -null human cells. Oncogene, 2005, 24, 4572-4579.	5.9	131
10	Radiation-Induced Micro-RNA Expression Changes in Peripheral Blood Cells of Radiotherapy Patients. International Journal of Radiation Oncology Biology Physics, 2011, 80, 549-557.	0.8	120
11	Prediction of In Vivo Radiation Dose Status in Radiotherapy Patients using Ex Vivo and In Vivo Gene Expression Signatures. Radiation Research, 2011, 175, 257.	1.5	111
12	Global gene expression analyses of bystander and alpha particle irradiated normal human lung fibroblasts: Synchronous and differential responses. BMC Medical Genomics, 2008, 1, 63.	1.5	93
13	Radiation dose-rate effects on gene expression for human biodosimetry. BMC Medical Genomics, 2015, 8, 22.	1.5	92
14	Candidate gene biodosimetry markers of exposure to external ionizing radiation in human blood: A systematic review. PLoS ONE, 2018, 13, e0198851.	2.5	64
15	Whole mouse blood microRNA as biomarkers for exposure to ?-rays and⁵⁶Fe ions. International Journal of Radiation Biology, 2011, 87, 653-662.	1.8	63
16	Comparison of gene expression response to neutron and x-ray irradiation using mouse blood. BMC Genomics, 2017, 18, 2.	2.8	57
17	Gene expression signatures of radiation exposure in peripheral white blood cells of smokers and non-smokers. International Journal of Radiation Biology, 2011, 87, 791-801.	1.8	55
18	Functional genomics in radiation biology: a gateway to cellular systems-level studies. Radiation and Environmental Biophysics, 2008, 47, 25-31.	1.4	47

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19	Gene Expression Response of Mice after a Single Dose of 137Cs as an Internal Emitter. Radiation Research, 2014, 182, 380.	1.5	45
20	Regulation of early signaling and gene expression in the Î±-particle and bystander response of IMR-90 human fibroblasts. BMC Medical Genomics, 2010, 3, 31.	1.5	42
21	Time-series clustering of gene expression in irradiated and bystander fibroblasts: an application of FBPA clustering. BMC Genomics, 2011, 12, 2.	2.8	42
22	Developing Human Radiation Biodosimetry Models: Testing Cross-Species Conversion Approaches Using an Ex Vivo Model System. Radiation Research, 2017, 187, 708.	1.5	38
23	Radiation Dose-Rate Effects on Gene Expression in a Mouse Biodosimetry Model. Radiation Research, 2015, 184, 24.	1.5	36
24	Impact of Neutron Exposure on Global Gene Expression in a Human Peripheral Blood Model. Radiation Research, 2017, 187, 443.	1.5	35
25	Whole thorax irradiation of non-human primates induces persistent nuclear damage and gene expression changes in peripheral blood cells. PLoS ONE, 2018, 13, e0191402.	2.5	32
26	Identification of differentially expressed genes and pathways in mice exposed to mixed field neutron/photon radiation. BMC Genomics, 2018, 19, 504.	2.8	31
27	Widespread Decreased Expression of Immune Function Genes in Human Peripheral Blood Following Radiation Exposure. Radiation Research, 2013, 180, 575.	1.5	30
28	Effect of 90Sr internal emitter on gene expression in mouse blood. BMC Genomics, 2015, 16, 586.	2.8	30
29	Differential Effect of Active Smoking on Gene Expression in Male and Female Smokers. Journal of Carcinogenesis & Mutagenesis, 2014, 05, .	0.3	29
30	A bead-based microfluidic approach to integrated single-cell gene expression analysis by quantitative RT-PCR. RSC Advances, 2015, 5, 4886-4893.	3.6	28
31	Discordant gene responses to radiation in humans and mice and the role of hematopoietically humanized mice in the search for radiation biomarkers. Scientific Reports, 2019, 9, 19434.	3.3	26
32	In vitro RABiT measurement of dose rate effects on radiation induction of micronuclei in human peripheral blood lymphocytes. Radiation and Environmental Biophysics, 2016, 55, 53-59.	1.4	25
33	ATM Regulates Insulin-Like Growth Factor 1-Secretory Clusterin (IGF-1-sCLU) Expression that Protects Cells against Senescence. PLoS ONE, 2014, 9, e99983.	2.5	25
34	Global Gene Expression Response in Mouse Models of DNA Repair Deficiency after Gamma Irradiation. Radiation Research, 2018, 189, 337.	1.5	21
35	Transcriptomics for radiation biodosimetry: progress and challenges. International Journal of Radiation Biology, 2023, 99, 925-933.	1.8	21
36	Cyclophilin B Expression Is Associated with In Vitro Radioresistance and Clinical Outcome after Radiotherapy. Neoplasia, 2011, 13, 1122-IN14.	5.3	20

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37	Gene expression analysis with an integrated CMOS microarray by time-resolved fluorescence detection. Biosensors and Bioelectronics, 2011, 26, 2660-2665.	10.1	19
38	New Approaches for Quantitative Reconstruction of Radiation Dose in Human Blood Cells. Scientific Reports, 2019, 9, 18441.	3.3	19
39	Human Transcriptomic Response to Mixed Neutron-Photon Exposures Relevant to an Improvised Nuclear Device. Radiation Research, 2019, 192, 189.	1.5	19
40	Impact of inflammatory signaling on radiation biodosimetry: mouse model of inflammatory bowel disease. BMC Genomics, 2019, 20, 329.	2.8	18
41	Functional Genomics and a New Era in Radiation Biology and Oncology. BioScience, 2008, 58, 491-500.	4.9	17
42	Integration of biological knowledge and gene expression data for biomarker selection. Cancer Biology and Therapy, 2010, 10, 1252-1255.	3.4	15
43	Effect of dose and dose rate on temporal Î³-H2AX kinetics in mouse blood and spleen mononuclear cells in vivo following Cesium-137 administration. BMC Molecular and Cell Biology, 2019, 20, 13.	2.0	15
44	Î³-H2AX Kinetic Profile in Mouse Lymphocytes Exposed to the Internal Emitters Cesium-137 and Strontium-90. PLoS ONE, 2015, 10, e0143815.	2.5	15
45	RAD9 deficiency enhances radiation induced bystander DNA damage and transcriptomal response. Radiation Oncology, 2014, 9, 206.	2.7	14
46	Gene expression for biodosimetry and effect prediction purposes: promises, pitfalls and future directions â€“ key session ConRad 2021. International Journal of Radiation Biology, 2022, 98, 843-854.	1.8	13
47	Transcriptomic responses in mouse blood during the first week after in vivo gamma irradiation. Scientific Reports, 2019, 9, 18364.	3.3	12
48	VADER: a variable dose-rate external 137Cs irradiator for internal emitter and low dose rate studies. Scientific Reports, 2020, 10, 19899.	3.3	12
49	Dose and Dose-Rate Effects in a Mouse Model of Internal Exposure to 137Cs. Part 1: Global Transcriptomic Responses in Blood. Radiation Research, 2020, 196, 478-490.	1.5	12
50	Impact of aging on gene expression response to x-ray irradiation using mouse blood. Scientific Reports, 2021, 11, 10177.	3.3	9
51	A microfluidic approach to parallelized transcriptional profiling of single cells. Microfluidics and Nanofluidics, 2015, 19, 1429-1440.	2.2	8
52	Dose and Dose-Rate Effects in a Mouse Model of Internal Exposure from 137Cs. Part 2: Integration of Gamma-H2AX and Gene Expression Biomarkers for Retrospective Radiation Biodosimetry. Radiation Research, 2020, 196, 491-500.	1.5	8
53	Single-cell responses to ionizing radiation. Radiation and Environmental Biophysics, 2013, 52, 523-530.	1.4	7
54	The transcriptomic revolution and radiation biology. International Journal of Radiation Biology, 2022, 98, 428-438.	1.8	7

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55	Biofluid Metabolomics of Mice Exposed to External Low-Dose Rate Radiation in a Novel Irradiation System, the Variable Dose-Rate External ¹³⁷Cs Irradiator. Journal of Proteome Research, 2021, 20, 5145-5155.	3.7	5
56	Gene Expression in Parp1 Deficient Mice Exposed to a Median Lethal Dose of Gamma Rays. Radiation Research, 2018, 190, 53.	1.5	4
57	Gene Expression Studies for the Development of Particle Therapy. International Journal of Particle Therapy, 2018, 5, 49-59.	1.8	4
58	Effect of the p38 Mitogen-Activated Protein Kinase Signaling Cascade on Radiation Biodosimetry. Radiation Research, 2022, 198, .	1.5	3
59	An Integrated Preprocessing Approach for Exploring Single-Cell Gene Expression in Rare Cells. Scientific Reports, 2019, 9, 19758.	3.3	2