

# Sally A Amundson

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

3,574  
citations

201385

27  
h-index

138251

58  
g-index

63  
all docs

63  
docs citations

63  
times ranked

2738  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transcriptomics for radiation biodosimetry: progress and challenges. <i>International Journal of Radiation Biology</i> , 2023, 99, 925-933.	1.0	21
2	The transcriptomic revolution and radiation biology. <i>International Journal of Radiation Biology</i> , 2022, 98, 428-438.	1.0	7
3	Gene expression for biodosimetry and effect prediction purposes: promises, pitfalls and future directions – key session ConRad 2021. <i>International Journal of Radiation Biology</i> , 2022, 98, 843-854.	1.0	13
4	Effect of the p38 Mitogen-Activated Protein Kinase Signaling Cascade on Radiation Biodosimetry. <i>Radiation Research</i> , 2022, 198, .	0.7	3
5	Impact of aging on gene expression response to x-ray irradiation using mouse blood. <i>Scientific Reports</i> , 2021, 11, 10177.	1.6	9
6	Biofluid Metabolomics of Mice Exposed to External Low-Dose Rate Radiation in a Novel Irradiation System, the Variable Dose-Rate External <sup>137</sup> Cs Irradiator. <i>Journal of Proteome Research</i> , 2021, 20, 5145-5155.	1.8	5
7	VADER: a variable dose-rate external <sup>137</sup> Cs irradiator for internal emitter and low dose rate studies. <i>Scientific Reports</i> , 2020, 10, 19899.	1.6	12
8	Dose and Dose-Rate Effects in a Mouse Model of Internal Exposure to <sup>137</sup> Cs. Part 1: Global Transcriptomic Responses in Blood. <i>Radiation Research</i> , 2020, 196, 478-490.	0.7	12
9	Dose and Dose-Rate Effects in a Mouse Model of Internal Exposure from <sup>137</sup> Cs. Part 2: Integration of Gamma-H2AX and Gene Expression Biomarkers for Retrospective Radiation Biodosimetry. <i>Radiation Research</i> , 2020, 196, 491-500.	0.7	8
10	Effect of dose and dose rate on temporal <sup>3</sup> H2AX kinetics in mouse blood and spleen mononuclear cells in vivo following Cesium-137 administration. <i>BMC Molecular and Cell Biology</i> , 2019, 20, 13.	1.0	15
11	Impact of inflammatory signaling on radiation biodosimetry: mouse model of inflammatory bowel disease. <i>BMC Genomics</i> , 2019, 20, 329.	1.2	18
12	An Integrated Preprocessing Approach for Exploring Single-Cell Gene Expression in Rare Cells. <i>Scientific Reports</i> , 2019, 9, 19758.	1.6	2
13	Discordant gene responses to radiation in humans and mice and the role of hematopoietically humanized mice in the search for radiation biomarkers. <i>Scientific Reports</i> , 2019, 9, 19434.	1.6	26
14	Transcriptomic responses in mouse blood during the first week after in vivo gamma irradiation. <i>Scientific Reports</i> , 2019, 9, 18364.	1.6	12
15	New Approaches for Quantitative Reconstruction of Radiation Dose in Human Blood Cells. <i>Scientific Reports</i> , 2019, 9, 18441.	1.6	19
16	Human Transcriptomic Response to Mixed Neutron-Photon Exposures Relevant to an Improvised Nuclear Device. <i>Radiation Research</i> , 2019, 192, 189.	0.7	19
17	Global Gene Expression Response in Mouse Models of DNA Repair Deficiency after Gamma Irradiation. <i>Radiation Research</i> , 2018, 189, 337.	0.7	21
18	Candidate gene biodosimetry markers of exposure to external ionizing radiation in human blood: A systematic review. <i>PLoS ONE</i> , 2018, 13, e0198851.	1.1	64

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19	Gene Expression in Parp1 Deficient Mice Exposed to a Median Lethal Dose of Gamma Rays. <i>Radiation Research</i> , 2018, 190, 53.	0.7	4
20	Identification of differentially expressed genes and pathways in mice exposed to mixed field neutron/photon radiation. <i>BMC Genomics</i> , 2018, 19, 504.	1.2	31
21	Whole thorax irradiation of non-human primates induces persistent nuclear damage and gene expression changes in peripheral blood cells. <i>PLoS ONE</i> , 2018, 13, e0191402.	1.1	32
22	Gene Expression Studies for the Development of Particle Therapy. <i>International Journal of Particle Therapy</i> , 2018, 5, 49-59.	0.9	4
23	Impact of Neutron Exposure on Global Gene Expression in a Human Peripheral Blood Model. <i>Radiation Research</i> , 2017, 187, 443.	0.7	35
24	Comparison of gene expression response to neutron and x-ray irradiation using mouse blood. <i>BMC Genomics</i> , 2017, 18, 2.	1.2	57
25	Developing Human Radiation Biodosimetry Models: Testing Cross-Species Conversion Approaches Using an Ex Vivo Model System. <i>Radiation Research</i> , 2017, 187, 708.	0.7	38
26	In vitro RABiT measurement of dose rate effects on radiation induction of micronuclei in human peripheral blood lymphocytes. <i>Radiation and Environmental Biophysics</i> , 2016, 55, 53-59.	0.6	25
27	A bead-based microfluidic approach to integrated single-cell gene expression analysis by quantitative RT-PCR. <i>RSC Advances</i> , 2015, 5, 4886-4893.	1.7	28
28	A microfluidic approach to parallelized transcriptional profiling of single cells. <i>Microfluidics and Nanofluidics</i> , 2015, 19, 1429-1440.	1.0	8
29	Effect of <sup>90</sup> Sr internal emitter on gene expression in mouse blood. <i>BMC Genomics</i> , 2015, 16, 586.	1.2	30
30	Radiation dose-rate effects on gene expression for human biodosimetry. <i>BMC Medical Genomics</i> , 2015, 8, 22.	0.7	92
31	Radiation Dose-Rate Effects on Gene Expression in a Mouse Biodosimetry Model. <i>Radiation Research</i> , 2015, 184, 24.	0.7	36
32	$\gamma$ -H2AX Kinetic Profile in Mouse Lymphocytes Exposed to the Internal Emitters Cesium-137 and Strontium-90. <i>PLoS ONE</i> , 2015, 10, e0143815.	1.1	15
33	Differential Effect of Active Smoking on Gene Expression in Male and Female Smokers. <i>Journal of Carcinogenesis &amp; Mutagenesis</i> , 2014, 05, .	0.3	29
34	RAD9 deficiency enhances radiation induced bystander DNA damage and transcriptomal response. <i>Radiation Oncology</i> , 2014, 9, 206.	1.2	14
35	Gene Expression Response of Mice after a Single Dose of <sup>137</sup> Cs as an Internal Emitter. <i>Radiation Research</i> , 2014, 182, 380.	0.7	45
36	ATM Regulates Insulin-Like Growth Factor 1-Secretory Clusterin (IGF-1-sCLU) Expression that Protects Cells against Senescence. <i>PLoS ONE</i> , 2014, 9, e99983.	1.1	25

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37	Single-cell responses to ionizing radiation. <i>Radiation and Environmental Biophysics</i> , 2013, 52, 523-530.	0.6	7
38	Widespread Decreased Expression of Immune Function Genes in Human Peripheral Blood Following Radiation Exposure. <i>Radiation Research</i> , 2013, 180, 575.	0.7	30
39	Cyclophilin B Expression Is Associated with In Vitro Radioresistance and Clinical Outcome after Radiotherapy. <i>Neoplasia</i> , 2011, 13, 1122-IN14.	2.3	20
40	Prediction of In Vivo Radiation Dose Status in Radiotherapy Patients using Ex Vivo and In Vivo Gene Expression Signatures. <i>Radiation Research</i> , 2011, 175, 257.	0.7	111
41	Whole mouse blood microRNA as biomarkers for exposure to $\gamma$ -rays and $^{56}\text{Fe}$ ions. <i>International Journal of Radiation Biology</i> , 2011, 87, 653-662.	1.0	63
42	Time-series clustering of gene expression in irradiated and bystander fibroblasts: an application of FBPA clustering. <i>BMC Genomics</i> , 2011, 12, 2.	1.2	42
43	Radiation-Induced Micro-RNA Expression Changes in Peripheral Blood Cells of Radiotherapy Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011, 80, 549-557.	0.4	120
44	Gene expression analysis with an integrated CMOS microarray by time-resolved fluorescence detection. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2660-2665.	5.3	19
45	Gene expression signatures of radiation exposure in peripheral white blood cells of smokers and non-smokers. <i>International Journal of Radiation Biology</i> , 2011, 87, 791-801.	1.0	55
46	Mechanism of radiation-induced bystander effects: a unifying model. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 60, 943-950.	1.2	294
47	Regulation of early signaling and gene expression in the $\alpha$ -particle and bystander response of IMR-90 human fibroblasts. <i>BMC Medical Genomics</i> , 2010, 3, 31.	0.7	42
48	Integration of biological knowledge and gene expression data for biomarker selection. <i>Cancer Biology and Therapy</i> , 2010, 10, 1252-1255.	1.5	15
49	Functional genomics in radiation biology: a gateway to cellular systems-level studies. <i>Radiation and Environmental Biophysics</i> , 2008, 47, 25-31.	0.6	47
50	Global gene expression analyses of bystander and alpha particle irradiated normal human lung fibroblasts: Synchronous and differential responses. <i>BMC Medical Genomics</i> , 2008, 1, 63.	0.7	93
51	Development of Gene Expression Signatures for Practical Radiation Biodosimetry. <i>International Journal of Radiation Oncology Biology Physics</i> , 2008, 71, 1236-1244.e76.	0.4	212
52	Functional Genomics and a New Era in Radiation Biology and Oncology. <i>BioScience</i> , 2008, 58, 491-500.	2.2	17
53	Integrating Global Gene Expression and Radiation Survival Parameters across the 60 Cell Lines of the National Cancer Institute Anticancer Drug Screen. <i>Cancer Research</i> , 2008, 68, 415-424.	0.4	226
54	Stress-specific signatures: expression profiling of p53 wild-type and -null human cells. <i>Oncogene</i> , 2005, 24, 4572-4579.	2.6	131

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55	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.	3.3	239
56	Human In vivo Radiation-Induced Biomarkers. Cancer Research, 2004, 64, 6368-6371.	0.4	202
57	Differential responses of stress genes to low dose-rate gamma irradiation. Molecular Cancer Research, 2003, 1, 445-52.	1.5	177
58	Identification of Potential mRNA Biomarkers in Peripheral Blood Lymphocytes for Human Exposure to Ionizing Radiation. Radiation Research, 2000, 154, 342-346.	0.7	261
59	Fluorescent cDNA microarray hybridization reveals complexity and heterogeneity of cellular genotoxic stress responses. Oncogene, 1999, 18, 3666-3672.	2.6	314