

Evagelia C Laiakis

List of Publications by Year in descending order

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papers

1,557
citations

304701

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all docs

62
docs citations

62
times ranked

1487
citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive Multi-omics Analysis Reveals Mitochondrial Stress as a Central Biological Hub for Spaceflight Impact. <i>Cell</i> , 2020, 183, 1185-1201.e20.	28.9	161
2	Radiation metabolomics and its potential in biodosimetry. <i>International Journal of Radiation Biology</i> , 2011, 87, 802-823.	1.8	88
3	MetaboLyzer: A Novel Statistical Workflow for Analyzing Postprocessed LC-MS Metabolomics Data. <i>Analytical Chemistry</i> , 2014, 86, 506-513.	6.5	87
4	Metabolomic applications in radiation biodosimetry: exploring radiation effects through small molecules. <i>International Journal of Radiation Biology</i> , 2017, 93, 1151-1176.	1.8	87
5	Metabolomic Analysis in Severe Childhood Pneumonia in The Gambia, West Africa: Findings from a Pilot Study. <i>PLoS ONE</i> , 2010, 5, e12655.	2.5	87
6	Development of a Metabolomic Radiation Signature in Urine from Patients Undergoing Total Body Irradiation. <i>Radiation Research</i> , 2014, 181, 350.	1.5	76
7	Metabolic Phenotyping Reveals a Lipid Mediator Response to Ionizing Radiation. <i>Journal of Proteome Research</i> , 2014, 13, 4143-4154.	3.7	62
8	A lipidomic and metabolomic serum signature from nonhuman primates exposed to ionizing radiation. <i>Metabolomics</i> , 2016, 12, 1.	3.0	55
9	Global Metabolomic Identification of Long-Term Dose-Dependent Urinary Biomarkers in Nonhuman Primates Exposed to Ionizing Radiation. <i>Radiation Research</i> , 2015, 184, 121.	1.5	53
10	Comparison of Mouse Urinary Metabolic Profiles after Exposure to the Inflammatory Stressors \hat{I}^3 Radiation and Lipopolysaccharide. <i>Radiation Research</i> , 2012, 177, 187.	1.5	49
11	Lipidomic Signatures of Nonhuman Primates with Radiation-Induced Hematopoietic Syndrome. <i>Scientific Reports</i> , 2017, 7, 9777.	3.3	41
12	Targeted metabolomics of nonhuman primate serum after exposure to ionizing radiation: potential tools for high-throughput biodosimetry. <i>RSC Advances</i> , 2016, 6, 51192-51202.	3.6	38
13	A Serum Small Molecule Biosignature of Radiation Exposure from Total Body Irradiated Patients. <i>Journal of Proteome Research</i> , 2017, 16, 3805-3815.	3.7	37
14	Distinct serum metabolomics profiles associated with malignant progression in the KrasG12D mouse model of pancreatic ductal adenocarcinoma. <i>BMC Genomics</i> , 2015, 16, S1.	2.8	35
15	Gas Chromatography/Mass Spectrometry Metabolomics of Urine and Serum from Nonhuman Primates Exposed to Ionizing Radiation: Impacts on the Tricarboxylic Acid Cycle and Protein Metabolism. <i>Journal of Proteome Research</i> , 2017, 16, 2091-2100.	3.7	32
16	A Metabolomic Serum Signature from Nonhuman Primates Treated with a Radiation Countermeasure, Gamma-tocotrienol, and Exposed to Ionizing Radiation. <i>Health Physics</i> , 2018, 115, 3-11.	0.5	30
17	Metabolomic Profiling of Urine Samples from Mice Exposed to Protons Reveals Radiation Quality and Dose Specific Differences. <i>Radiation Research</i> , 2015, 183, 382.	1.5	28
18	Liquid Chromatography-Mass Spectrometry-Based Metabolomics of Nonhuman Primates after 4 Gy Total Body Radiation Exposure: Global Effects and Targeted Panels. <i>Journal of Proteome Research</i> , 2019, 18, 2260-2269.	3.7	28

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19	Serum lipidomic analysis from mixed neutron/X-ray radiation fields reveals a hyperlipidemic and pro-inflammatory phenotype. <i>Scientific Reports</i> , 2019, 9, 4539.	3.3	26
20	Relative biological effectiveness of ¹² C and ²⁸ Si radiation in C57BL/6J mice. <i>Radiation and Environmental Biophysics</i> , 2012, 51, 303-309.	1.4	23
21	Selective Paired Ion Contrast Analysis: A Novel Algorithm for Analyzing Postprocessed LC-MS Metabolomics Data Possessing High Experimental Noise. <i>Analytical Chemistry</i> , 2015, 87, 3177-3186.	6.5	23
22	Implications of genotypic differences in the generation of a urinary metabolomics radiation signature. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2016, 788, 41-49.	1.0	23
23	Metabolic Dysregulation after Neutron Exposures Expected from an Improvised Nuclear Device. <i>Radiation Research</i> , 2017, 188, 21.	1.5	23
24	Nonhuman Primates with Acute Radiation Syndrome: Results from a Global Serum Metabolomics Study after 7.2 Gy Total-Body Irradiation. <i>Radiation Research</i> , 2018, 190, 576.	1.5	23
25	Differential Mobility Spectrometry-Mass Spectrometry (DMS-MS) in Radiation Biodosimetry: Rapid and High-Throughput Quantitation of Multiple Radiation Biomarkers in Nonhuman Primate Urine. <i>Journal of the American Society for Mass Spectrometry</i> , 2018, 29, 1650-1664.	2.8	23
26	Assessment of Saliva as a Potential Biofluid for Biodosimetry: A Pilot Metabolomics Study in Mice. <i>Radiation Research</i> , 2016, 186, 92-97.	1.5	21
27	Global Gene Expression Response in Mouse Models of DNA Repair Deficiency after Gamma Irradiation. <i>Radiation Research</i> , 2018, 189, 337.	1.5	21
28	Temporal Effects on Radiation Responses in Nonhuman Primates: Identification of Biofluid Small Molecule Signatures by Gas Chromatography-Mass Spectrometry Metabolomics. <i>Metabolites</i> , 2019, 9, 98.	2.9	21
29	Rapid and High-Throughput Detection and Quantitation of Radiation Biomarkers in Human and Nonhuman Primates by Differential Mobility Spectrometry-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2016, 27, 1626-1636.	2.8	18
30	Impact of inflammatory signaling on radiation biodosimetry: mouse model of inflammatory bowel disease. <i>BMC Genomics</i> , 2019, 20, 329.	2.8	18
31	DNA Damage Signaling in Hematopoietic Cells: A Role for Mre11 Complex Repair of Topoisomerase Lesions. <i>Cancer Research</i> , 2008, 68, 2186-2193.	0.9	17
32	Cytokine and chemokine responses after exposure to ionizing radiation: Implications for the astronauts. <i>Advances in Space Research</i> , 2007, 39, 1019-1025.	2.6	16
33	Salivary Metabolomics of Total Body Irradiated Nonhuman Primates Reveals Long-Term Normal Tissue Responses to Radiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019, 105, 843-851.	0.8	16
34	Identifying radiation exposure biomarkers from mouse blood transcriptome. <i>International Journal of Bioinformatics Research and Applications</i> , 2013, 9, 365.	0.2	13
35	Molecular cloning, expression and radiation hybrid mapping of the bovine deiodinase type II (DIO2) and deiodinase type III (DIO3) genes. <i>Animal Genetics</i> , 2005, 36, 240-243.	1.7	12
36	Differential mobility spectrometry (DMS) reveals the elevation of urinary acetylcarnitine in non-human primates (NHPs) exposed to radiation. <i>Journal of Mass Spectrometry</i> , 2018, 53, 548-559.	1.6	12

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37	Fabric Phase Sorptive Extraction—A Metabolomic Preprocessing Approach for Ionizing Radiation Exposure Assessment. <i>Journal of Proteome Research</i> , 2019, 18, 3020-3031.	3.7	12
38	VADER: a variable dose-rate external ¹³⁷ Cs irradiator for internal emitter and low dose rate studies. <i>Scientific Reports</i> , 2020, 10, 19899.	3.3	12
39	Effects of Low Dose Space Radiation Exposures on the Splenic Metabolome. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3070.	4.1	12
40	Irradiation of the kidneys causes pathologic remodeling in the nontargeted heart: A role for the immune system. <i>FASEB BioAdvances</i> , 2020, 2, 705-719.	2.4	12
41	Interleukin 8 exhibits a pro-mitogenic and pro-survival role in radiation induced genomically unstable cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2008, 640, 74-81.	1.0	10
42	Disparate Metabolomics Data Reassembler: A Novel Algorithm for Agglomerating Incongruent LC-MS Metabolomics Datasets. <i>Analytical Chemistry</i> , 2020, 92, 5231-5239.	6.5	9
43	Global metabolomic responses in urine from atm deficient mice in response to LD _{50/30} gamma irradiation doses. <i>Environmental and Molecular Mutagenesis</i> , 2018, 59, 576-585.	2.2	7
44	Metabolomic Profiling for Diagnosis and Prognostication in Surgery: A Scoping Review. <i>Annals of Surgery</i> , 2021, 273, 258-268.	4.2	7
45	Small Molecule Responses to Sequential Irradiation with Neutrons and Photons for Biodosimetry Applications: An Initial Assessment. <i>Radiation Research</i> , 2021, 196, 468-477.	1.5	7
46	Serum Metabolomic Alterations Associated with Cesium-137 Internal Emitter Delivered in Various Dose Rates. <i>Metabolites</i> , 2020, 10, 270.	2.9	6
47	Metabolomic Applications in Radiation Biodosimetry. <i>Methods in Molecular Biology</i> , 2019, 1978, 391-402.	0.9	6
48	Effects of Genetic Variation on Urinary Small Molecule Signatures of Mice after Exposure to Ionizing Radiation: A Study of p53 Deficiency. <i>Metabolites</i> , 2020, 10, 234.	2.9	5
49	Biofluid Metabolomics of Mice Exposed to External Low-Dose Rate Radiation in a Novel Irradiation System, the Variable Dose-Rate External ¹³⁷ Cs Irradiator. <i>Journal of Proteome Research</i> , 2021, 20, 5145-5155.	3.7	5
50	Gene Expression in Parp1 Deficient Mice Exposed to a Median Lethal Dose of Gamma Rays. <i>Radiation Research</i> , 2018, 190, 53.	1.5	4
51	Metabolomic approaches to study the tumor microenvironment. <i>Methods in Enzymology</i> , 2020, 636, 93-108.	1.0	3
52	Quantitation of Urinary Acylcarnitines by DMS-MS/MS Uncovers the Effects of Total Body Irradiation in Cancer Patients. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 498-507.	2.8	3
53	Effect of the p38 Mitogen-Activated Protein Kinase Signaling Cascade on Radiation Biodosimetry. <i>Radiation Research</i> , 2022, 198, .	1.5	3
54	Biofluid Metabolomics and Lipidomics of Mice Exposed to External Very High-Dose Rate Radiation. <i>Metabolites</i> , 2022, 12, 520.	2.9	3

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55	Summary of the Second Bill Morgan Memorial Symposium: an update on low dose biology, epidemiology, its integration and implications for radiation protection. International Journal of Radiation Biology, 2021, 97, 861-865.	1.8	2
56	Hepatic lipid signatures of little brown bats (<i>Myotis lucifugus</i>) and big brown bats (<i>Eptesicus fuscus</i>) at early stages of white-nose syndrome. Scientific Reports, 2021, 11, 11581.	3.3	2
57	Effect of 3,3'-Diindolylmethane on Pulmonary Injury Following Thoracic Irradiation in CBA Mice. Health Physics, 2020, 119, 746-757.	0.5	2
58	Introduction to the Second Bill Morgan Memorial Special Issue: an update on low dose biology, epidemiology, its integration and implications for radiation protection. International Journal of Radiation Biology, 2021, 97, 1-2.	1.8	0
59	Small Molecule Signatures of Mice Lacking T-cell p38 Alternate Activation, a Model for Immunosuppression Conditions, after Total-Body Irradiation. Radiation Research, 2022, , .	1.5	0