

Soile Tapio

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2327514/publications.pdf>

Version: 2024-02-01

110
papers

4,497
citations

108046

37
h-index

129628

63
g-index

111
all docs

111
docs citations

111
times ranked

5289
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro-RNA and Proteomic Profiles of Plasma-Derived Exosomes from Irradiated Mice Reveal Molecular Changes Preventing Apoptosis in Neonatal Cerebellum. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2169.	1.8	8
2	A systems radiation biology approach to unravel the role of chronic low-dose-rate gamma-irradiation in inducing premature senescence in endothelial cells. <i>PLoS ONE</i> , 2022, 17, e0265281.	1.1	4
3	MiRNA-Mediated Fibrosis in the Out-of-Target Heart following Partial-Body Irradiation. <i>Cancers</i> , 2022, 14, 3463.	1.7	4
4	Ionizing radiation-induced circulatory and metabolic diseases. <i>Environment International</i> , 2021, 146, 106235.	4.8	69
5	The Coming of Age for Big Data in Systems Radiobiology, an Engineering Perspective. <i>Big Data</i> , 2021, 9, 63-71.	2.1	2
6	A Five-Year report on the conception and establishment of the MSc Radiation Biology at the Technical University of Munich. <i>International Journal of Radiation Biology</i> , 2021, 97, 256-264.	1.0	0
7	Isolation of Proteins from Extracellular Vesicles (EVs) for Mass Spectrometry-Based Proteomic Analyses. <i>Methods in Molecular Biology</i> , 2021, 2261, 207-212.	0.4	1
8	Quantitative Proteomic Analysis Using Formalin-Fixed, Paraffin-Embedded (FFPE) Human Cardiac Tissue. <i>Methods in Molecular Biology</i> , 2021, 2261, 525-533.	0.4	2
9	Posterior subcapsular cataracts are a late effect after acute exposure to 0.5% Gy ionizing radiation in mice. <i>International Journal of Radiation Biology</i> , 2021, 97, 529-540.	1.0	5
10	Out-of-Field Hippocampus from Partial-Body Irradiated Mice Displays Changes in Multi-Omics Profile and Defects in Neurogenesis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4290.	1.8	5
11	Twenty years of proteomics in radiation biology – a look back. <i>International Journal of Radiation Biology</i> , 2021, , 1-5.	1.0	1
12	Data-Independent Acquisition Proteomics Reveals Long-Term Biomarkers in the Serum of C57BL/6J Mice Following Local High-Dose Heart Irradiation. <i>Frontiers in Public Health</i> , 2021, 9, 678856.	1.3	4
13	Activation of PPAR α by Fenofibrate Attenuates the Effect of Local Heart High Dose Irradiation on the Mouse Cardiac Proteome. <i>Biomedicines</i> , 2021, 9, 1845.	1.4	5
14	CREB Signaling Mediates Dose-Dependent Radiation Response in the Murine Hippocampus Two Years after Total Body Exposure. <i>Journal of Proteome Research</i> , 2020, 19, 337-345.	1.8	16
15	Data independent acquisition mass spectrometry of irradiated mouse lung endothelial cells reveals a STAT-associated inflammatory response. <i>International Journal of Radiation Biology</i> , 2020, 96, 642-650.	1.0	5
16	Phenotypic and Functional Characteristics of Exosomes Derived from Irradiated Mouse Organs and Their Role in the Mechanisms Driving Non-Targeted Effects. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8389.	1.8	28
17	Chronic Occupational Exposure to Ionizing Radiation Induces Alterations in the Structure and Metabolism of the Heart: A Proteomic Analysis of Human Formalin-Fixed Paraffin-Embedded (FFPE) Cardiac Tissue. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6832.	1.8	17
18	Radiation Response of Human Cardiac Endothelial Cells Reveals a Central Role of the cGAS-STING Pathway in the Development of Inflammation. <i>Proteomes</i> , 2020, 8, 30.	1.7	13

#	ARTICLE	IF	CITATIONS
19	Low-dose radiation therapy for COVID-19 pneumopathy: what is the evidence?. <i>Strahlentherapie Und Onkologie</i> , 2020, 196, 679-682.	1.0	39
20	Intravital optoacoustic and ultrasound bio-microscopy reveal radiation-inhibited skull angiogenesis. <i>Bone</i> , 2020, 133, 115251.	1.4	19
21	Radiation Exposure of Peripheral Mononuclear Blood Cells Alters the Composition and Function of Secreted Extracellular Vesicles. <i>International Journal of Molecular Sciences</i> , 2020, 21, 2336.	1.8	18
22	Comparison of methods to isolate proteins from extracellular vesicles for mass spectrometry-based proteomic analyses. <i>Analytical Biochemistry</i> , 2019, 584, 113390.	1.1	39
23	Hyperacetylation of Cardiac Mitochondrial Proteins Is Associated with Metabolic Impairment and Sirtuin Downregulation after Chronic Total Body Irradiation of ApoE ^{-/-} Mice. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5239.	1.8	27
24	DNA damage accumulation during fractionated low-dose radiation compromises hippocampal neurogenesis. <i>Radiotherapy and Oncology</i> , 2019, 137, 45-54.	0.3	24
25	Big data in radiation biology and epidemiology; an overview of the historical and contemporary landscape of data and biomaterial archives. <i>International Journal of Radiation Biology</i> , 2019, 95, 861-878.	1.0	16
26	Mathematical Modelling and Effect Size Analysis in Support of Searching for the Proteomic Signature of Radiotherapy Toxicity. , 2019, , .		0
27	Combined Treatment with Low-Dose Ionizing Radiation and Ketamine Induces Adverse Changes in CA1 Neuronal Structure in Male Murine Hippocampi. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6103.	1.8	7
28	Lifetime study in mice after acute low-dose ionizing radiation: a multifactorial study with special focus on cataract risk. <i>Radiation and Environmental Biophysics</i> , 2018, 57, 99-113.	0.6	30
29	PPAR α Is Necessary for Radiation-Induced Activation of Noncanonical TGF β Signaling in the Heart. <i>Journal of Proteome Research</i> , 2018, 17, 1677-1689.	1.8	17
30	Integrative multiomics study for validation of mechanisms in radiation-induced ischemic heart disease in Mayak workers. <i>PLoS ONE</i> , 2018, 13, e0209626.	1.1	11
31	Ionizing radiation biomarkers in epidemiological studies – An update. <i>Mutation Research - Reviews in Mutation Research</i> , 2017, 771, 59-84.	2.4	118
32	Quantitative changes in the protein and miRNA cargo of plasma exosome-like vesicles after exposure to ionizing radiation. <i>International Journal of Radiation Biology</i> , 2017, 93, 569-580.	1.0	63
33	Using proteomics to explore the effects of radiation on the heart - impacts for medicine. <i>Expert Review of Proteomics</i> , 2017, 14, 277-279.	1.3	5
34	Long non-coding RNA PARTICLE bridges histone and DNA methylation. <i>Scientific Reports</i> , 2017, 7, 1790.	1.6	43
35	Radiation alters the cargo of exosomes released from squamous head and neck cancer cells to promote migration of recipient cells. <i>Scientific Reports</i> , 2017, 7, 12423.	1.6	92
36	Proteomics landscape of radiation-induced cardiovascular disease: somewhere over the paradigm. <i>Expert Review of Proteomics</i> , 2017, 14, 987-996.	1.3	11

#	ARTICLE	IF	CITATIONS
37	Radiation-Induced Endothelial Inflammation Is Transferred via the Secretome to Recipient Cells in a STAT-Mediated Process. <i>Journal of Proteome Research</i> , 2017, 16, 3903-3916.	1.8	18
38	PARTICLE triplexes cluster in the tumor suppressor WWOX and may extend throughout the human genome. <i>Scientific Reports</i> , 2017, 7, 7163.	1.6	27
39	Proteome analysis of irradiated endothelial cells reveals persistent alteration in protein degradation and the RhoGDI and NO signalling pathways. <i>International Journal of Radiation Biology</i> , 2017, 93, 920-928.	1.0	16
40	Role of TGF Beta and PPAR Alpha Signaling Pathways in Radiation Response of Locally Exposed Heart: Integrated Global Transcriptomics and Proteomics Analysis. <i>Journal of Proteome Research</i> , 2017, 16, 307-318.	1.8	39
41	Low-dose radiation differentially regulates protein acetylation and histone deacetylase expression in human coronary artery endothelial cells. <i>International Journal of Radiation Biology</i> , 2017, 93, 156-164.	1.0	12
42	Differential Impact of Single-Dose Fe Ion and X-Ray Irradiation on Endothelial Cell Transcriptomic and Proteomic Responses. <i>Frontiers in Pharmacology</i> , 2017, 8, 570.	1.6	18
43	A dose-dependent perturbation in cardiac energy metabolism is linked to radiation-induced ischemic heart disease in Mayak nuclear workers. <i>Oncotarget</i> , 2017, 8, 9067-9078.	0.8	50
44	Proteomics approaches to investigate cancer radiotherapy outcome: slow train coming. <i>Translational Cancer Research</i> , 2017, 6, S779-S788.	0.4	11
45	Abstract 5849: Exosomes promote survival and migration in squamous head and neck cancer cells after ionizing radiation: Evidence for a bystander effect. , 2017, , .		0
46	Pathology and biology of radiation-induced cardiac disease. <i>Journal of Radiation Research</i> , 2016, 57, 439-448.	0.8	135
47	Effects of ionizing radiation on the mammalian brain. <i>Mutation Research - Reviews in Mutation Research</i> , 2016, 770, 219-230.	2.4	71
48	Brain Radiation Information Data Exchange (BRIDE): integration of experimental data from low-dose ionising radiation research for pathway discovery. <i>BMC Bioinformatics</i> , 2016, 17, 212.	1.2	5
49	In-Utero Low-Dose Irradiation Leads to Persistent Alterations in the Mouse Heart Proteome. <i>PLoS ONE</i> , 2016, 11, e0156952.	1.1	13
50	Chronic low-dose-rate ionising radiation affects the hippocampal phosphoproteome in the ApoE ^{0/0} Alzheimer's mouse model. <i>Oncotarget</i> , 2016, 7, 71817-71832.	0.8	38
51	Age-related effects of X-ray irradiation on mouse hippocampus. <i>Oncotarget</i> , 2016, 7, 28040-28058.	0.8	44
52	Transcriptomic and proteomic analysis of mouse radiation-induced acute myeloid leukaemia (AML). <i>Oncotarget</i> , 2016, 7, 40461-40480.	0.8	6
53	Quantitative and integrated proteome and microRNA analysis of endothelial replicative senescence. <i>Journal of Proteomics</i> , 2015, 126, 12-23.	1.2	25
54	Long-term consequences of in utero irradiated mice indicate proteomic changes in synaptic plasticity related signalling. <i>Proteome Science</i> , 2015, 13, 26.	0.7	11

#	ARTICLE	IF	CITATIONS
55	Ionizing radiation induces immediate protein acetylation changes in human cardiac microvascular endothelial cells. <i>Journal of Radiation Research</i> , 2015, 56, 623-632.	0.8	21
56	Unique proteomic signature for radiation sensitive patients; a comparative study between normo-sensitive and radiation sensitive breast cancer patients. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2015, 776, 128-135.	0.4	14
57	Total Body Exposure to Low-Dose Ionizing Radiation Induces Long-Term Alterations to the Liver Proteome of Neonatally Exposed Mice. <i>Journal of Proteome Research</i> , 2015, 14, 366-373.	1.8	33
58	Integrative Proteomics and Targeted Transcriptomics Analyses in Cardiac Endothelial Cells Unravel Mechanisms of Long-Term Radiation-Induced Vascular Dysfunction. <i>Journal of Proteome Research</i> , 2015, 14, 1203-1219.	1.8	86
59	Late proliferating and inflammatory effects on murine microvascular heart and lung endothelial cells after irradiation. <i>Radiotherapy and Oncology</i> , 2015, 117, 376-381.	0.3	42
60	Low-Dose Ionizing Radiation Rapidly Affects Mitochondrial and Synaptic Signaling Pathways in Murine Hippocampus and Cortex. <i>Journal of Proteome Research</i> , 2015, 14, 2055-2064.	1.8	45
61	Low-dose ionising radiation and cardiovascular diseases – Strategies for molecular epidemiological studies in Europe. <i>Mutation Research - Reviews in Mutation Research</i> , 2015, 764, 90-100.	2.4	64
62	Neonatal Irradiation Leads to Persistent Proteome Alterations Involved in Synaptic Plasticity in the Mouse Hippocampus and Cortex. <i>Journal of Proteome Research</i> , 2015, 14, 4674-4686.	1.8	23
63	Qualitative and Quantitative Proteomic Analysis of Formalin-Fixed Paraffin-Embedded (FFPE) Tissue. <i>Methods in Molecular Biology</i> , 2015, 1295, 109-115.	0.4	5
64	Acceleration of atherogenesis in <i>ApoE^{-/-}/i</i> mice exposed to acute or low-dose-rate ionizing radiation. <i>Oncotarget</i> , 2015, 6, 31263-31271.	0.8	45
65	Adhesion Molecule Expression and Function of Primary Endothelial Cells in Benign and Malignant Tissues Correlates with Proliferation. <i>PLoS ONE</i> , 2014, 9, e91808.	1.1	20
66	The cognitive defects of neonatally irradiated mice are accompanied by changed synaptic plasticity, adult neurogenesis and neuroinflammation. <i>Molecular Neurodegeneration</i> , 2014, 9, 57.	4.4	95
67	Proteomics in radiation research: present status and future perspectives. <i>Radiation and Environmental Biophysics</i> , 2014, 53, 31-38.	0.6	26
68	Proteomic Strategies: SILAC and 2D-DIGE – Powerful Tool to Investigate Cellular Alterations. <i>Methods in Molecular Biology</i> , 2014, 1101, 369-392.	0.4	1
69	Ionising Radiation Immediately Impairs Synaptic Plasticity-Associated Cytoskeletal Signalling Pathways in HT22 Cells and in Mouse Brain: An In Vitro/In Vivo Comparison Study. <i>PLoS ONE</i> , 2014, 9, e110464.	1.1	43
70	Long-term effects of acute low-dose ionizing radiation on the neonatal mouse heart: a proteomic study. <i>Radiation and Environmental Biophysics</i> , 2013, 52, 451-461.	0.6	26
71	Long-term effects of ionising radiation on the brain: cause for concern?. <i>Radiation and Environmental Biophysics</i> , 2013, 52, 5-16.	0.6	42
72	Comment on “Dose-responses from multi-model inference for the non-cancer disease mortality of atomic bomb survivors” (<i>Radiat. Environ. Biophys</i> (2012) 51:165–178) by Schöllnberger et al.. <i>Radiation and Environmental Biophysics</i> , 2013, 52, 157-159.	0.6	10

#	ARTICLE	IF	CITATIONS
73	Integrative proteomic and microRNA analysis of primary human coronary artery endothelial cells exposed to low-dose gamma radiation. <i>Radiation and Environmental Biophysics</i> , 2013, 52, 87-98.	0.6	34
74	Quantitative proteomic analysis reveals induction of premature senescence in human umbilical vein endothelial cells exposed to chronic low-dose rate gamma radiation. <i>Proteomics</i> , 2013, 13, 1096-1107.	1.3	102
75	Ionising radiation induces persistent alterations in the cardiac mitochondrial function of C57BL/6 mice 40weeks after local heart exposure. <i>Radiotherapy and Oncology</i> , 2013, 106, 404-410.	0.3	65
76	PPAR Alpha: A Novel Radiation Target in Locally Exposed <i>Mus musculus</i> Heart Revealed by Quantitative Proteomics. <i>Journal of Proteome Research</i> , 2013, 12, 2700-2714.	1.8	56
77	Ionizing Radiation Effects on Cells, Organelles and Tissues on Proteome Level. <i>Advances in Experimental Medicine and Biology</i> , 2013, 990, 37-48.	0.8	21
78	The PI3K/Akt/mTOR Pathway Is Implicated in the Premature Senescence of Primary Human Endothelial Cells Exposed to Chronic Radiation. <i>PLoS ONE</i> , 2013, 8, e70024.	1.1	82
79	Cell Survival Following Radiation Exposure Requires miR-525-3p Mediated Suppression of ARRB1 and TXN1. <i>PLoS ONE</i> , 2013, 8, e77484.	1.1	16
80	Systematic Review and Meta-analysis of Circulatory Disease from Exposure to Low-Level Ionizing Radiation and Estimates of Potential Population Mortality Risks. <i>Environmental Health Perspectives</i> , 2012, 120, 1503-1511.	2.8	296
81	Estimating Risk of Circulatory Disease: Little et al. Respond. <i>Environmental Health Perspectives</i> , 2012, 120, .	2.8	3
82	Ionizing radiation biomarkers for potential use in epidemiological studies. <i>Mutation Research - Reviews in Mutation Research</i> , 2012, 751, 258-286.	2.4	181
83	Nucleic acids from long-term preserved FFPE tissues are suitable for downstream analyses. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2012, 460, 131-140.	1.4	153
84	Proteomic analysis by SILAC and 2D-DIGE reveals radiation-induced endothelial response: Four key pathways. <i>Journal of Proteomics</i> , 2012, 75, 2319-2330.	1.2	41
85	Label-free protein profiling of formalin-fixed paraffin-embedded (FFPE) heart tissue reveals immediate mitochondrial impairment after ionising radiation. <i>Journal of Proteomics</i> , 2012, 75, 2384-2395.	1.2	35
86	Radiation-Induced Signaling Results in Mitochondrial Impairment in Mouse Heart at 4 Weeks after Exposure to X-Rays. <i>PLoS ONE</i> , 2011, 6, e27811.	1.1	134
87	Low-dose irradiation causes rapid alterations to the proteome of the human endothelial cell line EA.hy926. <i>Radiation and Environmental Biophysics</i> , 2011, 50, 155-166.	0.6	49
88	Rapid proteomic remodeling of cardiac tissue caused by total body ionizing radiation. <i>Proteomics</i> , 2011, 11, 3299-3311.	1.3	87
89	The European Radiobiological Archives: Online Access to Data from Radiobiological Experiments. <i>Radiation Research</i> , 2011, 175, 526-531.	0.7	21
90	Review and meta-analysis of epidemiological associations between low/moderate doses of ionizing radiation and circulatory disease risks, and their possible mechanisms. <i>Radiation and Environmental Biophysics</i> , 2010, 49, 139-153.	0.6	132

#	ARTICLE	IF	CITATIONS
91	Use of proteomics in radiobiological research: current state of the art. <i>Radiation and Environmental Biophysics</i> , 2010, 49, 1-4.	0.6	19
92	Archiving lessons from radiobiology. <i>Nature</i> , 2010, 468, 634-634.	13.7	7
93	Formalin-Fixed Paraffin-Embedded (FFPE) Proteome Analysis Using Gel-Free and Gel-Based Proteomics. <i>Journal of Proteome Research</i> , 2010, 9, 4710-4720.	1.8	82
94	Comments: The non-cancer mortality experience of male workers at British Nuclear Fuels plc, 1946-2005. <i>International Journal of Epidemiology</i> , 2009, 38, 1159-1164.	0.9	5
95	Major histopathological patterns of lung cancer related to arsenic exposure in German uranium miners. <i>International Archives of Occupational and Environmental Health</i> , 2009, 82, 867-875.	1.1	19
96	Overexpression of PTK6 (breast tumor kinase) protein is a prognostic factor for long-term breast cancer survival is not due to gene amplification. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2009, 455, 117-123.	1.4	14
97	Tumorigenesis. <i>Medical Radiology</i> , 2009, , 1-17.	0.0	0
98	Molecular information obtained from radiobiological tissue archives: achievements of the past and visions of the future. <i>Radiation and Environmental Biophysics</i> , 2008, 47, 183-187.	0.6	17
99	Prognostic value of protein tyrosine kinase 6 (PTK6) for long-term survival of breast cancer patients. <i>British Journal of Cancer</i> , 2008, 99, 1089-1095.	2.9	45
100	Progress in updating the European Radiobiology Archives. <i>International Journal of Radiation Biology</i> , 2008, 84, 930-936.	1.0	20
101	A Systematic Review of Epidemiological Associations between Low and Moderate Doses of Ionizing Radiation and Late Cardiovascular Effects, and Their Possible Mechanisms. <i>Radiation Research</i> , 2008, 169, 99-109.	0.7	164
102	Radioadaptive response revisited. <i>Radiation and Environmental Biophysics</i> , 2007, 46, 1-12.	0.6	147
103	Arsenic in the aetiology of cancer. <i>Mutation Research - Reviews in Mutation Research</i> , 2006, 612, 215-246.	2.4	282
104	Combined effects of gamma radiation and arsenite on the proteome of human TK6 lymphoblastoid cells. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2005, 581, 141-152.	0.9	23
105	Starvation in vivo for aminoacyl-tRNA increases the spatial separation between the two ribosomal subunits. <i>Cell</i> , 1994, 79, 629-638.	13.5	48
106	Base 2661 in Escherichia coli 23S rRNA influences the binding of elongation factor Tu during protein synthesis in vivo. <i>FEBS Journal</i> , 1991, 202, 981-984.	0.2	21
107	Antisuppression by mutations in elongation factor Tu. <i>FEBS Journal</i> , 1990, 188, 339-346.	0.2	13
108	Impaired in vitro kinetics of EF-Tu mutant Aa. <i>FEBS Journal</i> , 1990, 188, 347-354.	0.2	18

#	ARTICLE	IF	CITATIONS
109	Antagonistic effects of mutant elongation factor Tu and ribosomal protein S12 on control of translational accuracy, suppression and cellular growth. <i>Biochimie</i> , 1988, 70, 273-281.	1.3	30
110	Mutant EF-Tu increases missense error in vitro. <i>Molecular Genetics and Genomics</i> , 1986, 205, 186-188.	2.4	67