Sylvain V Costes

List of Publications by Year
in descending order

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83	6,027	126858	76872
papers	citations	33 h-index	74 g-index

91	91	91	9280
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ionizing radiation-induced risks to the central nervous system and countermeasures in cellular and rodent models. International Journal of Radiation Biology, 2021, 97, S132-S150.	1.0	20
2	NASA GeneLab: interfaces for the exploration of space omics data. Nucleic Acids Research, 2021, 49, D1515-D1522.	6.5	56
3	Knowledge Network Embedding of Transcriptomic Data from Spaceflown Mice Uncovers Signs and Symptoms Associated with Terrestrial Diseases. Life, 2021, 11, 42.	1.1	10
4	A Meta-Analysis of the Effects of High-LET Ionizing Radiations in Human Gene Expression. Life, 2021, 11, 115.	1.1	8
5	NASA GeneLab RNA-seq consensus pipeline: Standardized processing of short-read RNA-seq data. IScience, 2021, 24, 102361.	1.9	20
6	Rad-Bio-App: a discovery environment for biologists to explore spaceflight-related radiation exposures. Npj Microgravity, 2021, 7, 15.	1.9	2
7	Mammalian and Invertebrate Models as Complementary Tools for Gaining Mechanistic Insight on Muscle Responses to Spaceflight. International Journal of Molecular Sciences, 2021, 22, 9470.	1.8	12
8	Role of miR-2392 in driving SARS-CoV-2 infection. Cell Reports, 2021, 37, 109839.	2.9	52
9	Quantification of radiation-induced DNA double strand break repair foci to evaluate and predict biological responses to ionizing radiation. NAR Cancer, 2021, 3, .	1.6	25
10	Fundamental Biological Features of Spaceflight: Advancing the Field to Enable Deep-Space Exploration. Cell, 2020, 183, 1162-1184.	13.5	185
11	Comprehensive Multi-omics Analysis Reveals Mitochondrial Stress as a Central Biological Hub for Spaceflight Impact. Cell, 2020, 183, 1185-1201.e20.	13.5	161
12	Advancing the Integration of Biosciences Data Sharing to Further Enable Space Exploration. Cell Reports, 2020, 33, 108441.	2.9	17
13	Circulating miRNA Spaceflight Signature Reveals Targets for Countermeasure Development. Cell Reports, 2020, 33, 108448.	2.9	35
14	RNAseq Analysis of Rodent Spaceflight Experiments Is Confounded by Sample Collection Techniques. IScience, 2020, 23, 101733.	1.9	8
15	DNA Damage Baseline Predicts Resilience to Space Radiation and Radiotherapy. Cell Reports, 2020, 33, 108434.	2.9	24
16	Comparative Transcriptomics Identifies Neuronal and Metabolic Adaptations to Hypergravity and Microgravity in Caenorhabditis elegans. IScience, 2020, 23, 101734.	1.9	8
17	A New Era for Space Life Science: International Standards for Space Omics Processing. Patterns, 2020, 1, 100148.	3.1	28
18	In Situ Detection of Complex DNA Damage Using Microscopy: A Rough Road Ahead. Cancers, 2020, 12, 3288.	1.7	12

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19	NASA GeneLab Platform Utilized for Biological Response to Space Radiation in Animal Models. Cancers, 2020, 12, 381.	1.7	18
20	53BP1 Repair Kinetics for Prediction of In Vivo Radiation Susceptibility in 15 Mouse Strains. Radiation Research, 2020, 194, 485-499.	0.7	15
21	Considering Cell Proliferation to Optimize Detection of Radiation-Induced 53BP1 Positive Foci in 15 Mouse Strains Ex Vivo. Radiation Research, 2020, 195, 47-59.	0.7	4
22	Dose, LET and Strain Dependence of Radiation-Induced 53BP1 Foci in 15 Mouse Strains Ex Vivo Introducing Novel DNA Damage Metrics. Radiation Research, 2019, 192, 1.	0.7	30
23	Exploring the Effects of Spaceflight on Mouse Physiology using the Open Access NASA GeneLab Platform. Journal of Visualized Experiments, 2019, , .	0.2	10
24	GeneLab Database Analyses Suggest Long-Term Impact of Space Radiation on the Cardiovascular System by the Activation of FYN Through Reactive Oxygen Species. International Journal of Molecular Sciences, 2019, 20, 661.	1.8	23
25	Multi-omics analysis of multiple missions to space reveal a theme of lipid dysregulation in mouse liver. Scientific Reports, 2019, 9, 19195.	1.6	46
26	GeneLab: Omics database for spaceflight experiments. Bioinformatics, 2019, 35, 1753-1759.	1.8	60
27	Global transcriptomic analysis suggests carbon dioxide as an environmental stressor in spaceflight: A systems biology GeneLab case study. Scientific Reports, 2018, 8, 4191.	1.6	35
28	Central Nervous System Responses to Simulated Galactic Cosmic Rays. International Journal of Molecular Sciences, 2018, 19, 3669.	1.8	76
29	Vive la radiorÃ©sistance!: converging research in radiobiology and biogerontology to enhance human radioresistance for deep space exploration and colonization. Oncotarget, 2018, 9, 14692-14722.	0.8	62
30	Persistence of Gamma-H2AX Foci in Bronchial Cells Correlates with Susceptibility to Radiation Associated Lung Cancer in Mice. Radiation Research, 2018, 191, 67.	0.7	14
31	A microRNA signature and TGF-Î²1 response were identified as the key master regulators for spaceflight response. PLoS ONE, 2018, 13, e0199621.	1.1	33
32	NASA GeneLab Project: Bridging Space Radiation Omics with Ground Studies. Radiation Research, 2018, 189, 553-559.	0.7	19
33	Gadolinium-enhanced cardiac MR exams of human subjects are associated with significant increases in the DNA repair marker 53BP1, but not the damage marker Î³H2AX. PLoS ONE, 2018, 13, e0190890.	1.1	4
34	Comparing Photon and Charged Particle Therapy Using DNA Damage Biomarkers. International Journal of Particle Therapy, 2018, 5, 15-24.	0.9	23
35	FAIRness and Usability for Open-access Omics Data Systems. AMIA ... Annual Symposium proceedings, 2018, 2018, 232-241.	0.2	7
36	Drosophila Histone Demethylase KDM4A Has Enzymatic and Non-enzymatic Roles in Controlling Heterochromatin Integrity. Developmental Cell, 2017, 42, 156-169.e5.	3.1	38

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37	Optimizing radiotherapy protocols using computer automata to model tumour cell death as a function of oxygen diffusion processes. Scientific Reports, 2017, 7, 2280.	1.6	25
38	The composition and organization of Drosophila heterochromatin are heterogeneous and dynamic. ELife, 2016, 5, .	2.8	53
39	The Trp53 delta proline (Trp53Î”P) mouse exhibits increased genome instability and susceptibility to radiation-induced, but not spontaneous, tumor development. Molecular Carcinogenesis, 2016, 55, 1387-1396.	1.3	5
40	Simulating Space Radiation-Induced Breast Tumor Incidence Using Automata. Radiation Research, 2016, 186, 27-38.	0.7	11
41	Evaluating biomarkers to model cancer risk post cosmic ray exposure. Life Sciences in Space Research, 2016, 9, 19-47.	1.2	30
42	Genetic Background Modulates lncRNA-Coordinated Tissue Response to Low Dose Ionizing Radiation. International Journal of Genomics, 2015, 2015, 1-7.	0.8	4
43	Mathematical Modeling for DNA Repair, Carcinogenesis and Cancer Detection. Cancer Metastasis - Biology and Treatment, 2015, , 75-93.	0.1	6
44	Understanding the Health Impacts and Risks of Exposure to Radiation. , 2015, , 259-281.		4
45	Understanding Cancer Development Processes after HZE-Particle Exposure: Roles of ROS, DNA Damage Repair and Inflammation. Radiation Research, 2015, 183, 1-26.	0.7	95
46	Characterizing the DNA Damage Response by Cell Tracking Algorithms and Cell Features Classification Using High-Content Time-Lapse Analysis. PLoS ONE, 2015, 10, e0129438.	1.1	28
47	Densely Ionizing Radiation Acts via the Microenvironment to Promote Aggressive Trp53-Null Mammary Carcinomas. Cancer Research, 2014, 74, 7137-7148.	0.4	24
48	Systems biology perspectives on the carcinogenic potential of radiation. Journal of Radiation Research, 2014, 55, i145-i154.	0.8	11
49	Combinatorial DNA Damage Pairing Model Based on X-Ray-Induced Foci Predicts the Dose and LET Dependence of Cell Death in Human Breast Cells. Radiation Research, 2014, 182, 273-281.	0.7	30
50	Irradiation of Juvenile, but not Adult, Mammary Gland Increases Stem Cell Self-Renewal and Estrogen Receptor Negative Tumors. Stem Cells, 2014, 32, 649-661.	1.4	44
51	Nuclear dynamics of radiation-induced foci in euchromatin and heterochromatin. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2013, 750, 56-66.	0.4	61
52	Rapid and automated multidimensional fluorescence microscopy profiling of 3D human breast cultures. Integrative Biology (United Kingdom), 2013, 5, 681-691.	0.6	12
53	Î²1-integrin via NF-Î¹B signaling is essential for acquisition of invasiveness in a model of radiation treated in situ breast cancer. Breast Cancer Research, 2013, 15, R60.	2.2	35
54	The Cell Cycle Timing of Centromeric Chromatin Assembly in Drosophila Meiosis Is Distinct from Mitosis Yet Requires CAL1 and CENP-C. PLoS Biology, 2012, 10, e1001460.	2.6	72

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55	Broadcasting in the Airways: The Fifth Anniversary of the Radiation Research Podcast1. Radiation Research, 2012, 178, 99-100.	0.7	0
56	Evidence for formation of DNA repair centers and dose-response nonlinearity in human cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 443-448.	3.3	242
57	Targeting Beta-1 Integrin Suppresses Invasive Recurrence in a 3-dimensional Model of Radiation Treated Ductal Carcinoma In situ. International Journal of Radiation Oncology Biology Physics, 2012, 84, S143.	0.4	3
58	Phenotypic transition maps of 3D breast acini obtained by imaging-guided agent-based modeling. Integrative Biology (United Kingdom), 2011, 3, 408.	0.6	41
59	Persistence of Î³-H2AX and 53BP1 foci in proliferating and non-proliferating human mammary epithelial cells after exposure to Î³-rays or iron ions. International Journal of Radiation Biology, 2011, 87, 696-710.	1.0	31
60	Double-Strand Breaks in Heterochromatin Move Outside of a Dynamic HP1a Domain to Complete Recombinational Repair. Cell, 2011, 144, 732-744.	13.5	470
61	Lack of Radiation Dose or Quality Dependence of Epithelial-to-Mesenchymal Transition (EMT) Mediated by Transforming Growth Factor Î². International Journal of Radiation Oncology Biology Physics, 2011, 79, 1523-1531.	0.4	29
62	Depletion of nuclear actin is a key mediator of quiescence in epithelial cells. Journal of Cell Science, 2011, 124, 123-132.	1.2	128
63	Interplay between BRCA1 and RHAMM Regulates Epithelial Apicobasal Polarization and May Influence Risk of Breast Cancer. PLoS Biology, 2011, 9, e1001199.	2.6	91
64	Depletion of nuclear actin is a key mediator of quiescence in epithelial cells. Development (Cambridge), 2011, 138, e0207-e0207.	1.2	1
65	Mesenchymal cells stimulate capillary morphogenesis via distinct proteolytic mechanisms. Experimental Cell Research, 2010, 316, 813-825.	1.2	151
66	Spatiotemporal characterization of ionizing radiation induced DNA damage foci and their relation to chromatin organization. Mutation Research - Reviews in Mutation Research, 2010, 704, 78-87.	2.4	184
67	Promotion of variant human mammary epithelial cell outgrowth by ionizing radiation: an agent-based model supported by in vitro studies. Breast Cancer Research, 2010, 12, R11.	2.2	24
68	Stochastic properties of radiation-induced DSB: DSB distributions in large scale chromatin loops, the HPRT gene and within the visible volumes of DNA repair foci. International Journal of Radiation Biology, 2008, 84, 916-929.	1.0	27
69	Inhibition of Metastatic Outgrowth from Single Dormant Tumor Cells by Targeting the Cytoskeleton. Cancer Research, 2008, 68, 6241-6250.	0.4	377
70	Targeted and Nontargeted Effects of Ionizing Radiation That Impact Genomic Instability. Cancer Research, 2008, 68, 8304-8311.	0.4	84
71	Ionizing Radiation Predisposes Nonmalignant Human Mammary Epithelial Cells to Undergo Transforming Growth Factor Î²â€“Induced Epithelial to Mesenchymal Transition. Cancer Research, 2007, 67, 8662-8670.	0.4	155
72	Image-Based Modeling Reveals Dynamic Redistribution of DNA Damage into Nuclear Sub-Domains. PLoS Computational Biology, 2007, 3, e155.	1.5	97

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73	Imaging Features that Discriminate between Foci Induced by High- and Low-LET Radiation in Human Fibroblasts. Radiation Research, 2006, 165, 505-515.	0.7	142
74	A systems biology approach to multicellular and multi-generational radiation responses. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2006, 597, 32-38.	0.4	44
75	Intensity-based signal separation algorithm for accurate quantification of clustered centrosomes in tissue sections. Microscopy Research and Technique, 2006, 69, 964-972.	1.2	6
76	Kinetic and Molecular Analysis of Nuclear Export Factor CRM1 Association with Its Cargo In Vivo. Molecular and Cellular Biology, 2005, 25, 728-739.	1.1	58
77	In Vivo HIV-1 Rev Multimerization in the Nucleolus and Cytoplasm Identified by Fluorescence Resonance Energy Transfer. Journal of Biological Chemistry, 2004, 279, 50167-50175.	1.6	53
78	Role of Murine Leukemia Virus Nucleocapsid Protein in Virus Assembly. Journal of Virology, 2004, 78, 12378-12385.	1.5	52
79	Automatic and Quantitative Measurement of Protein-Protein Colocalization in Live Cells. Biophysical Journal, 2004, 86, 3993-4003.	0.2	1,235
80	Human CD8+ T Cells Store RANTES in a Unique Secretory Compartment and Release It Rapidly after TcR Stimulation. Immunity, 2004, 20, 219-230.	6.6	93
81	The Transformation Suppressor Pdcd4 Is a Novel Eukaryotic Translation Initiation Factor 4A Binding Protein That Inhibits Translation. Molecular and Cellular Biology, 2003, 23, 26-37.	1.1	446
82	FRAP model to determine the bidirectional transport rate of GFP across the nuclear membrane and the mobile fraction in the cytoplasm and nucleus. , 2002, , .		0
83	Radiation quality and tissue-specific microenvironments following exposure to 1 GeV/AMU Fe. Advances in Space Research, 2002, 30, 865-870.	1.2	0