

David Gius

List of Publications by Year in descending order

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64
papers

9,610
citations

46984

47
h-index

114418

63
g-index

64
all docs

64
docs citations

64
times ranked

12903
citing authors

#	ARTICLE	IF	CITATIONS
1	Sirt3-Mediated Deacetylation of Evolutionarily Conserved Lysine 122 Regulates MnSOD Activity in Response to Stress. <i>Molecular Cell</i> , 2010, 40, 893-904.	4.5	794
2	Epigenetic silencing of tumour suppressor gene p15 by its antisense RNA. <i>Nature</i> , 2008, 451, 202-206.	13.7	777
3	SIRT3 Is a Mitochondria-Localized Tumor Suppressor Required for Maintenance of Mitochondrial Integrity and Metabolism during Stress. <i>Cancer Cell</i> , 2010, 17, 41-52.	7.7	705
4	Metabolic oxidation/reduction reactions and cellular responses to ionizing radiation: A unifying concept in stress response biology. <i>Cancer and Metastasis Reviews</i> , 2004, 23, 311-322.	2.7	584
5	Circadian Clock NAD ⁺ Cycle Drives Mitochondrial Oxidative Metabolism in Mice. <i>Science</i> , 2013, 342, 1243-1247.	6.0	525
6	SIRT2 Maintains Genome Integrity and Suppresses Tumorigenesis through Regulating APC/C Activity. <i>Cancer Cell</i> , 2011, 20, 487-499.	7.7	460
7	Fatty liver is associated with reduced SIRT3 activity and mitochondrial protein hyperacetylation. <i>Biochemical Journal</i> , 2011, 433, 505-514.	1.7	339
8	Honokiol blocks and reverses cardiac hypertrophy in mice by activating mitochondrial Sirt3. <i>Nature Communications</i> , 2015, 6, 6656.	5.8	336
9	Ionizing Radiation-Induced Oxidative Stress Alters miRNA Expression. <i>PLoS ONE</i> , 2009, 4, e6377.	1.1	291
10	SIRT3 interacts with the daf-16 homolog FOXO3a in the Mitochondria, as well as increases FOXO3a Dependent Gene expression. <i>International Journal of Biological Sciences</i> , 2008, 4, 291-299.	2.6	250
11	Intracellular oxidation/reduction status in the regulation of transcription factors NF- κ B and AP-1. <i>Toxicology Letters</i> , 1999, 106, 93-106.	0.4	249
12	Oxidative stress, redox, and the tumor microenvironment. <i>Seminars in Radiation Oncology</i> , 2004, 14, 259-266.	1.0	244
13	Redox Signaling in Cancer Biology. <i>Antioxidants and Redox Signaling</i> , 2006, 8, 1249-1252.	2.5	182
14	SIRT6 Deficiency Results in Severe Hypoglycemia by Enhancing Both Basal and Insulin-stimulated Glucose Uptake in Mice. <i>Journal of Biological Chemistry</i> , 2010, 285, 36776-36784.	1.6	181
15	Distinct effects on gene expression of chemical and genetic manipulation of the cancer epigenome revealed by a multimodality approach. <i>Cancer Cell</i> , 2004, 6, 361-371.	7.7	172
16	SIRT3 Is a Mitochondrial Tumor Suppressor: A Scientific Tale That Connects Aberrant Cellular ROS, the Warburg Effect, and Carcinogenesis. <i>Cancer Research</i> , 2012, 72, 2468-2472.	0.4	166
17	SIRT3 Deacetylates ATP Synthase F ₁ Complex Proteins in Response to Nutrient- and Exercise-Induced Stress. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 551-564.	2.5	159
18	SIRT3 deacetylates and increases pyruvate dehydrogenase activity in cancer cells. <i>Free Radical Biology and Medicine</i> , 2014, 76, 163-172.	1.3	156

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19	Thioredoxin reductase as a novel molecular target for cancer therapy. <i>Cancer Letters</i> , 2006, 236, 164-174.	3.2	148
20	SIRT3 is regulated by nutrient excess and modulates hepatic susceptibility to lipotoxicity. <i>Free Radical Biology and Medicine</i> , 2010, 49, 1230-1237.	1.3	148
21	The human sirtuin family: Evolutionary divergences and functions. <i>Human Genomics</i> , 2011, 5, 485.	1.4	148
22	Regulation of MnSOD Enzymatic Activity by Sirt3 Connects the Mitochondrial Acetylome Signaling Networks to Aging and Carcinogenesis. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 1646-1654.	2.5	148
23	Geldanamycin and 17-allylamino-17-demethoxygeldanamycin potentiate the in vitro and in vivo radiation response of cervical tumor cells via the heat shock protein 90-mediated intracellular signaling and cytotoxicity. <i>Cancer Research</i> , 2003, 63, 8984-95.	0.4	146
24	Acetylation of MnSOD directs enzymatic activity responding to cellular nutrient status or oxidative stress. <i>Aging</i> , 2011, 3, 102-107.	1.4	132
25	Thioredoxin Reductase as a Potential Molecular Target for Anticancer Agents That Induce Oxidative Stress. <i>Cancer Research</i> , 2004, 64, 6716-6724.	0.4	112
26	Loss of NAD-Dependent Protein Deacetylase Sirtuin-2 Alters Mitochondrial Protein Acetylation and Dysregulates Mitophagy. <i>Antioxidants and Redox Signaling</i> , 2017, 26, 849-863.	2.5	107
27	Prolonged fasting suppresses mitochondrial NLRP3 inflammasome assembly and activation via SIRT3-mediated activation of superoxide dismutase 2. <i>Journal of Biological Chemistry</i> , 2017, 292, 12153-12164.	1.6	107
28	Thioredoxin reductase regulates AP-1 activity as well as thioredoxin nuclear localization via active cysteines in response to ionizing radiation. <i>Oncogene</i> , 2002, 21, 6317-6327.	2.6	106
29	Sirtuin 2 regulates cellular iron homeostasis via deacetylation of transcription factor NRF2. <i>Journal of Clinical Investigation</i> , 2017, 127, 1505-1516.	3.9	101
30	Characterization of the murine SIRT3 mitochondrial localization sequence and comparison of mitochondrial enrichment and deacetylase activity of long and short SIRT3 isoforms. <i>Journal of Cellular Biochemistry</i> , 2010, 110, 238-247.	1.2	99
31	SIRT3 deficiency promotes lung fibrosis by augmenting alveolar epithelial cell mitochondrial DNA damage and apoptosis. <i>FASEB Journal</i> , 2017, 31, 2520-2532.	0.2	96
32	Sirt3, Mitochondrial ROS, Ageing, and Carcinogenesis. <i>International Journal of Molecular Sciences</i> , 2011, 12, 6226-6239.	1.8	92
33	SIRT2-Mediated Deacetylation and Tetramerization of Pyruvate Kinase Directs Glycolysis and Tumor Growth. <i>Cancer Research</i> , 2016, 76, 3802-3812.	0.4	92
34	Profiling Microdissected Epithelium and Stroma to Model Genomic Signatures for Cervical Carcinogenesis Accommodating for Covariates. <i>Cancer Research</i> , 2007, 67, 7113-7123.	0.4	87
35	SIRT2 directs the replication stress response through CDK9 deacetylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 13546-13551.	3.3	87
36	Sirt3 protects dopaminergic neurons from mitochondrial oxidative stress. <i>Human Molecular Genetics</i> , 2017, 26, 1915-1926.	1.4	76

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37	SIRT2 is a tumor suppressor that connects aging, acetylome, cell cycle signaling, and carcinogenesis. <i>Translational Cancer Research</i> , 2012, 1, 15-21.	0.4	73
38	SIRT3-Mediated Dimerization of IDH2 Directs Cancer Cell Metabolism and Tumor Growth. <i>Cancer Research</i> , 2017, 77, 3990-3999.	0.4	69
39	Decreased mitochondrial SIRT3 expression is a potential molecular biomarker associated with poor outcome in breast cancer. <i>Human Pathology</i> , 2014, 45, 1071-1077.	1.1	68
40	Cell Cycle-coupled Variation in Topoisomerase II α mRNA Is Regulated by the 3' UTR. <i>Journal of Biological Chemistry</i> , 2000, 275, 38384-38392.	1.6	65
41	Co-activation of ERK, NF- κ B, and GADD45 β in Response to Ionizing Radiation. <i>Journal of Biological Chemistry</i> , 2005, 280, 12593-12601.	1.6	65
42	Bioenergetic and autophagic control by Sirt3 in response to nutrient deprivation in mouse embryonic fibroblasts. <i>Biochemical Journal</i> , 2013, 454, 249-257.	1.7	64
43	SIRT3 and SIRT4 are mitochondrial tumor suppressor proteins that connect mitochondrial metabolism and carcinogenesis. <i>Cancer & Metabolism</i> , 2014, 2, 15.	2.4	63
44	Emerging evidence for targeting mitochondrial metabolic dysfunction in cancer therapy. <i>Journal of Clinical Investigation</i> , 2018, 128, 3682-3691.	3.9	59
45	SOD2 acetylation on lysine 68 promotes stem cell reprogramming in breast cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23534-23541.	3.3	57
46	ATRIP Deacetylation by SIRT2 Drives ATR Checkpoint Activation by Promoting Binding to RPA-ssDNA. <i>Cell Reports</i> , 2016, 14, 1435-1447.	2.9	54
47	Exploring the electrostatic repulsion model in the role of Sirt3 in directing MnSOD acetylation status and enzymatic activity. <i>Free Radical Biology and Medicine</i> , 2012, 53, 828-833.	1.3	52
48	SIRT2 knockout exacerbates insulin resistance in high fat-fed mice. <i>PLoS ONE</i> , 2018, 13, e0208634.	1.1	39
49	Manganese Superoxide Dismutase Acetylation and Dysregulation, Due to Loss of SIRT3 Activity, Promote a Luminal B-Like Breast Carcinogenic-Permissive Phenotype. <i>Antioxidants and Redox Signaling</i> , 2016, 25, 326-336.	2.5	36
50	SIRT2 deletion enhances KRAS-induced tumorigenesis <i>in vivo</i> by regulating K147 acetylation status. <i>Oncotarget</i> , 2016, 7, 80336-80349.	0.8	35
51	Lysine 68 acetylation directs MnSOD as a tetrameric detoxification complex versus a monomeric tumor promoter. <i>Nature Communications</i> , 2019, 10, 2399.	5.8	33
52	Superoxide Mediates Acute Liver Injury in Irradiated Mice Lacking Sirtuin 3. <i>Antioxidants and Redox Signaling</i> , 2014, 20, 1423-1435.	2.5	30
53	The epigenome as a molecular marker and target. <i>Cancer</i> , 2005, 104, 1789-1793.	2.0	26
54	Dysfunctional MnSOD leads to redox dysregulation and activation of prosurvival AKT signaling in uterine leiomyomas. <i>Science Advances</i> , 2016, 2, e1601132.	4.7	24

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55	Sirtuin 2-mediated deacetylation of cyclin-dependent kinase 9 promotes STAT1 signaling in type I interferon responses. <i>Journal of Biological Chemistry</i> , 2019, 294, 827-837.	1.6	24
56	SIRT3 Overexpression Ameliorates Asbestos-Induced Pulmonary Fibrosis, mt-DNA Damage, and Lung Fibrogenic Monocyte Recruitment. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6856.	1.8	22
57	Indomethacin and ibuprofen induce Hsc70 nuclear localization and activation of the heat shock response in HeLa cells. <i>Biochemical and Biophysical Research Communications</i> , 2004, 313, 863-870.	1.0	19
58	Loss of Sirt2 increases and prolongs a caerulein-induced pancreatitis permissive phenotype and induces spontaneous oncogenic Kras mutations in mice. <i>Scientific Reports</i> , 2018, 8, 16501.	1.6	13
59	MnSOD Lysine 68 acetylation leads to cisplatin and doxorubicin resistance due to aberrant mitochondrial metabolism. <i>International Journal of Biological Sciences</i> , 2021, 17, 1203-1216.	2.6	7
60	Low-Dose Radiation-Induced Enhancement of Thymic Lymphomagenesis in Lck-Bax Mice is Dependent on LET and Gender. <i>Radiation Research</i> , 2013, 180, 156-165.	0.7	5
61	Systemic application of honokiol prevents cisplatin ototoxicity without compromising its antitumor effect. <i>American Journal of Cancer Research</i> , 2020, 10, 4416-4434.	1.4	3
62	Changes in gene expression in SIRT3 knockout liver cells. <i>Turkish Journal of Biology</i> , 2015, 39, 380-387.	2.1	2
63	Manganese Superoxide Dismutase Acetylation and Regulation of Protein Structure in Breast Cancer Biology and Therapy. <i>Antioxidants</i> , 2022, 11, 635.	2.2	1
64	Mammalian Sirtuins, Cellular Energy Regulation, and Metabolism, and Carcinogenesis. , 2018, , 141-154.		0