

Hozumi Motohashi

List of Publications by Year in descending order

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107
papers

19,022
citations

38742

50
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25787

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113
all docs

113
docs citations

113
times ranked

22395
citing authors

#	ARTICLE	IF	CITATIONS
1	The selective autophagy substrate p62 activates the stress responsive transcription factor Nrf2 through inactivation of Keap1. <i>Nature Cell Biology</i> , 2010, 12, 213-223.	10.3	1,933
2	Nrf2—Keap1 defines a physiologically important stress response mechanism. <i>Trends in Molecular Medicine</i> , 2004, 10, 549-557.	6.7	1,529
3	Nrf2 suppresses macrophage inflammatory response by blocking proinflammatory cytokine transcription. <i>Nature Communications</i> , 2016, 7, 11624.	12.8	1,238
4	Molecular mechanisms of the Keap1-Nrf2 pathway in stress response and cancer evolution. <i>Genes To Cells</i> , 2011, 16, 123-140.	1.2	1,215
5	Nrf2 Redirects Glucose and Glutamine into Anabolic Pathways in Metabolic Reprogramming. <i>Cancer Cell</i> , 2012, 22, 66-79.	16.8	1,113
6	The KEAP1-NRF2 System: a Thiol-Based Sensor-Effector Apparatus for Maintaining Redox Homeostasis. <i>Physiological Reviews</i> , 2018, 98, 1169-1203.	28.8	1,067
7	Phosphorylation of p62 Activates the Keap1-Nrf2 Pathway during Selective Autophagy. <i>Molecular Cell</i> , 2013, 51, 618-631.	9.7	880
8	Keap1-null mutation leads to postnatal lethality due to constitutive Nrf2 activation. <i>Nature Genetics</i> , 2003, 35, 238-245.	21.4	782
9	Reactive cysteine persulfides and S-polythiolation regulate oxidative stress and redox signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7606-7611.	7.1	757
10	Toward clinical application of the Keap1—Nrf2 pathway. <i>Trends in Pharmacological Sciences</i> , 2013, 34, 340-346.	8.7	564
11	Physiological Significance of Reactive Cysteine Residues of Keap1 in Determining Nrf2 Activity. <i>Molecular and Cellular Biology</i> , 2008, 28, 2758-2770.	2.3	441
12	Integration and diversity of the regulatory network composed of Maf and CNC families of transcription factors. <i>Gene</i> , 2002, 294, 1-12.	2.2	412
13	Keap1 degradation by autophagy for the maintenance of redox homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13561-13566.	7.1	394
14	Cysteinyl-tRNA synthetase governs cysteine polysulfidation and mitochondrial bioenergetics. <i>Nature Communications</i> , 2017, 8, 1177.	12.8	373
15	Hepatocyte-specific deletion of the keap1 gene activates Nrf2 and confers potent resistance against acute drug toxicity. <i>Biochemical and Biophysical Research Communications</i> , 2006, 339, 79-88.	2.1	356
16	The Keap1—Nrf2 system in cancers: stress response and anabolic metabolism. <i>Frontiers in Oncology</i> , 2012, 2, 200.	2.8	305
17	Small Maf proteins serve as transcriptional cofactors for keratinocyte differentiation in the Keap1-Nrf2 regulatory pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 6379-6384.	7.1	293
18	Hydrogen sulfide anion regulates redox signaling via electrophile sulfhydration. <i>Nature Chemical Biology</i> , 2012, 8, 714-724.	8.0	274

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19	p62/Sqstm1 promotes malignancy of HCV-positive hepatocellular carcinoma through Nrf2-dependent metabolic reprogramming. <i>Nature Communications</i> , 2016, 7, 12030.	12.8	253
20	Genetic Evidence that Small Maf Proteins Are Essential for the Activation of Antioxidant Response Element-Dependent Genes. <i>Molecular and Cellular Biology</i> , 2005, 25, 8044-8051.	2.3	250
21	Genetic Analysis of Cytoprotective Functions Supported by Graded Expression of Keap1. <i>Molecular and Cellular Biology</i> , 2010, 30, 3016-3026.	2.3	198
22	NRF2 addiction in cancer cells. <i>Cancer Science</i> , 2018, 109, 900-911.	3.9	197
23	Roles of Nrf2 in cell proliferation and differentiation. <i>Free Radical Biology and Medicine</i> , 2015, 88, 168-178.	2.9	189
24	Accumulation of p62/SQSTM1 is associated with poor prognosis in patients with lung adenocarcinoma. <i>Cancer Science</i> , 2012, 103, 760-766.	3.9	177
25	The Keap1-Nrf2 system as an in vivo sensor for electrophiles. <i>Nitric Oxide - Biology and Chemistry</i> , 2011, 25, 153-160.	2.7	164
26	Autophagy regulates lipid metabolism through selective turnover of NCoR1. <i>Nature Communications</i> , 2019, 10, 1567.	12.8	143
27	p62/SQSTM1-droplet serves as a platform for autophagosome formation and anti-oxidative stress response. <i>Nature Communications</i> , 2021, 12, 16.	12.8	137
28	Positive or Negative MARE-Dependent Transcriptional Regulation Is Determined by the Abundance of Small Maf Proteins. <i>Cell</i> , 2000, 103, 865-876.	28.9	136
29	PKM1 Confers Metabolic Advantages and Promotes Cell-Autonomous Tumor Cell Growth. <i>Cancer Cell</i> , 2018, 33, 355-367.e7.	16.8	121
30	Cohort Profile: Tohoku Medical Megabank Project Birth and Three-Generation Cohort Study (TMM) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2020, 49, 18-19m.	1.9	107
31	Regulatory Nexus of Synthesis and Degradation Deciphers Cellular Nrf2 Expression Levels. <i>Molecular and Cellular Biology</i> , 2013, 33, 2402-2412.	2.3	101
32	Impaired megakaryopoiesis and behavioral defects in <i>mafG</i> -null mutant mice. <i>Genes and Development</i> , 1998, 12, 2164-2174.	5.9	98
33	Molecular Basis Distinguishing the DNA Binding Profile of Nrf2-Maf Heterodimer from That of Maf Homodimer. <i>Journal of Biological Chemistry</i> , 2007, 282, 33681-33690.	3.4	92
34	NRF2 Is a Key Target for Prevention of Noise-Induced Hearing Loss by Reducing Oxidative Damage of Cochlea. <i>Scientific Reports</i> , 2016, 6, 19329.	3.3	91
35	Nrf2 Neh5 domain is differentially utilized in the transactivation of cytoprotective genes. <i>Biochemical Journal</i> , 2007, 404, 459-466.	3.7	87
36	Glucocorticoid receptor signaling represses the antioxidant response by inhibiting histone acetylation mediated by the transcriptional activator NRF2. <i>Journal of Biological Chemistry</i> , 2017, 292, 7519-7530.	3.4	87

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37	Nrf2 Enhances Cholangiocyte Expansion in Pten-Deficient Livers. <i>Molecular and Cellular Biology</i> , 2014, 34, 900-913.	2.3	85
38	NF-E2 domination over Nrf2 promotes ROS accumulation and megakaryocytic maturation. <i>Blood</i> , 2010, 115, 677-686.	1.4	84
39	Study Profile of the Tohoku Medical Megabank Community-Based Cohort Study. <i>Journal of Epidemiology</i> , 2021, 31, 65-76.	2.4	81
40	Perinatal synthetic lethality and hematopoietic defects in compound mafG::mafK mutant mice. <i>EMBO Journal</i> , 2000, 19, 1335-1345.	7.8	78
41	Evaluation of MafG interaction with Maf recognition element arrays by surface plasmon resonance imaging technique. <i>Genes To Cells</i> , 2004, 9, 153-164.	1.2	71
42	Sulfide catabolism ameliorates hypoxic brain injury. <i>Nature Communications</i> , 2021, 12, 3108.	12.8	71
43	Predictive base substitution rules that determine the binding and transcriptional specificity of Maf recognition elements. <i>Genes To Cells</i> , 2006, 11, 575-591.	1.2	69
44	Low-Dose Irradiation Promotes Persistent Oxidative Stress and Decreases Self-Renewal in Hematopoietic Stem Cells. <i>Cell Reports</i> , 2017, 20, 3199-3211.	6.4	69
45	Systemic Activation of NRF2 Alleviates Lethal Autoimmune Inflammation in Scurfy Mice. <i>Molecular and Cellular Biology</i> , 2017, 37, .	2.3	66
46	The Mediator Subunit MED16 Transduces NRF2-Activating Signals into Antioxidant Gene Expression. <i>Molecular and Cellular Biology</i> , 2016, 36, 407-420.	2.3	64
47	Enhancer remodeling promotes tumor-initiating activity in NRF2-activated non-small cell lung cancers. <i>Nature Communications</i> , 2020, 11, 5911.	12.8	60
48	Establishment of Protocols for Global Metabolomics by LC-MS for Biomarker Discovery. <i>PLoS ONE</i> , 2016, 11, e0160555.	2.5	56
49	NRF2 immunolocalization in human breast cancer patients as a prognostic factor. <i>Endocrine-Related Cancer</i> , 2014, 21, 241-252.	3.1	55
50	Polysulfide stabilization by tyrosine and hydroxyphenyl-containing derivatives that is important for a reactive sulfur metabolomics analysis. <i>Redox Biology</i> , 2019, 21, 101096.	9.0	55
51	Characterization of the Murine mafF Gene. <i>Journal of Biological Chemistry</i> , 1999, 274, 21162-21169.	3.4	51
52	Keap1 α Nrf2 system regulates cell fate determination of hematopoietic stem cells. <i>Genes To Cells</i> , 2014, 19, 239-253.	1.2	51
53	MafG Sumoylation Is Required for Active Transcriptional Repression. <i>Molecular and Cellular Biology</i> , 2006, 26, 4652-4663.	2.3	49
54	NRF2 Activation Impairs Quiescence and Bone Marrow Reconstitution Capacity of Hematopoietic Stem Cells. <i>Molecular and Cellular Biology</i> , 2017, 37, .	2.3	49

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55	Activation of the NRF2 pathway and its impact on the prognosis of anaplastic glioma patients. <i>Neuro-Oncology</i> , 2015, 17, 555-565.	1.2	48
56	Small Maf Compound Mutants Display Central Nervous System Neuronal Degeneration, Aberrant Transcription, and Bach Protein Mislocalization Coincident with Myoclonus and Abnormal Startle Response. <i>Molecular and Cellular Biology</i> , 2003, 23, 1163-1174.	2.3	46
57	IL-11 contribution to tumorigenesis in an NRF2 addiction cancer model. <i>Oncogene</i> , 2017, 36, 6315-6324.	5.9	46
58	The KEAP1-NRF2 System in Healthy Aging and Longevity. <i>Antioxidants</i> , 2021, 10, 1929.	5.1	44
59	OGlcNAcylation Signal Mediates Proteasome Inhibitor Resistance in Cancer Cells by Stabilizing NRF1. <i>Molecular and Cellular Biology</i> , 2018, 38, .	2.3	43
60	Histone deacetylase inhibitor restores surfactant protein-C expression in alveolar-epithelial type II cells and attenuates bleomycin-induced pulmonary fibrosis <i>in vivo</i> . <i>Experimental Lung Research</i> , 2015, 41, 422-434.	1.2	41
61	Redox signaling regulated by electrophiles and reactive sulfur species. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2016, 58, 91-98.	1.4	41
62	Mesodermal- vs. neuronal-specific expression of MafK is elicited by different promoters. <i>Genes To Cells</i> , 1996, 1, 223-238.	1.2	40
63	Protein polysulfidation-dependent persulfide dioxygenase activity of ethylmalonic encephalopathy protein 1. <i>Biochemical and Biophysical Research Communications</i> , 2016, 480, 180-186.	2.1	39
64	Electron microscopy of primary cell cultures in solution and correlative optical microscopy using ASEM. <i>Ultramicroscopy</i> , 2014, 143, 52-66.	1.9	38
65	Persulfide synthases that are functionally coupled with translation mediate sulfur respiration in mammalian cells. <i>British Journal of Pharmacology</i> , 2019, 176, 607-615.	5.4	38
66	Enzymatic Regulation and Biological Functions of Reactive Cysteine Persulfides and Polysulfides. <i>Biomolecules</i> , 2020, 10, 1245.	4.0	38
67	Microenvironmental Activation of Nrf2 Restricts the Progression of Nrf2-Activated Malignant Tumors. <i>Cancer Research</i> , 2020, 80, 3331-3344.	0.9	36
68	NF-E2 p45 Is Important for Establishing Normal Function of Platelets. <i>Molecular and Cellular Biology</i> , 2013, 33, 2659-2670.	2.3	35
69	Metabolic features of cancer cells in NRF2 addiction status. <i>Biophysical Reviews</i> , 2020, 12, 435-441.	3.2	34
70	Roles of CNC Transcription Factors NRF1 and NRF2 in Cancer. <i>Cancers</i> , 2021, 13, 541.	3.7	33
71	Chemical Biology of Reactive Sulfur Species: Hydrolysis-Driven Equilibrium of Polysulfides as a Determinant of Physiological Functions. <i>Antioxidants and Redox Signaling</i> , 2022, 36, 327-336.	5.4	30
72	The Transcription Factor Bach2 Is Phosphorylated at Multiple Sites in Murine B Cells but a Single Site Prevents Its Nuclear Localization. <i>Journal of Biological Chemistry</i> , 2016, 291, 1826-1840.	3.4	29

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73	Impacts of NRF2 activation in non-small cell lung cancer cell lines on extracellular metabolites. <i>Cancer Science</i> , 2020, 111, 667-678.	3.9	29
74	NF-E2-related factor 2 promotes compensatory liver hypertrophy after portal vein branch ligation in mice. <i>Hepatology</i> , 2014, 59, 2371-2382.	7.3	28
75	CD271 regulates the proliferation and motility of hypopharyngeal cancer cells. <i>Scientific Reports</i> , 2016, 6, 30707.	3.3	28
76	Hyperactivation of Nrf2 leads to hypoplasia of bone in vivo. <i>Genes To Cells</i> , 2018, 23, 386-392.	1.2	28
77	Whole-Body <i>In Vivo</i> Monitoring of Inflammatory Diseases Exploiting Human Interleukin 6-Luciferase Transgenic Mice. <i>Molecular and Cellular Biology</i> , 2015, 35, 3590-3601.	2.3	27
78	An integrative approach to analyze microarray datasets for prioritization of genes relevant to lens biology and disease. <i>Genomics Data</i> , 2015, 5, 223-227.	1.3	27
79	Nrf2 contributes to the weight gain of mice during space travel. <i>Communications Biology</i> , 2020, 3, 496.	4.4	27
80	Redox regulation of electrophilic signaling by reactive persulfides in cardiac cells. <i>Free Radical Biology and Medicine</i> , 2017, 109, 132-140.	2.9	26
81	Tumors sweeten macrophages with acids. <i>Nature Immunology</i> , 2018, 19, 1281-1283.	14.5	24
82	Nrf2 Suppresses Allergic Lung Inflammation by Attenuating the Type 2 Innate Lymphoid Cell Response. <i>Journal of Immunology</i> , 2019, 202, 1331-1339.	0.8	24
83	High-Precision Sulfur Metabolomics Innovated by a New Specific Probe for Trapping Reactive Sulfur Species. <i>Antioxidants and Redox Signaling</i> , 2021, 34, 1407-1419.	5.4	24
84	Methods in sulfide and persulfide research. <i>Nitric Oxide - Biology and Chemistry</i> , 2021, 116, 47-64.	2.7	22
85	Alcohol dehydrogenase 3 contributes to the protection of liver from nonalcoholic steatohepatitis. <i>Genes To Cells</i> , 2015, 20, 464-480.	1.2	21
86	NRF2 pathway activation by KEAP1 inhibition attenuates the manifestation of aging phenotypes in salivary glands. <i>Redox Biology</i> , 2020, 36, 101603.	9.0	20
87	Simultaneous Quantification of Sphingolipids in Small Quantities of Liver by LC-MS/MS. <i>Mass Spectrometry</i> , 2014, 3, S0046-S0046.	0.6	19
88	Activation of the NRF2 pathway in Keap1-knockdown mice attenuates progression of age-related hearing loss. <i>Npj Aging and Mechanisms of Disease</i> , 2020, 6, 14.	4.5	19
89	Redox signaling regulated by an electrophilic cyclic nucleotide and reactive cysteine persulfides. <i>Archives of Biochemistry and Biophysics</i> , 2016, 595, 140-146.	3.0	18
90	The structural origin of metabolic quantitative diversity. <i>Scientific Reports</i> , 2016, 6, 31463.	3.3	18

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91	Redox-dependent Regulation of Gluconeogenesis by a Novel Mechanism Mediated by a Peroxidatic Cysteine of Peroxiredoxin. <i>Scientific Reports</i> , 2016, 6, 33536.	3.3	18
92	Mitochondrial cysteinyl-tRNA synthetase is expressed via alternative transcriptional initiation regulated by energy metabolism in yeast cells. <i>Journal of Biological Chemistry</i> , 2019, 294, 13781-13788.	3.4	16
93	Molecular Determinants for Small Maf Protein Control of Platelet Production. <i>Molecular and Cellular Biology</i> , 2011, 31, 151-162.	2.3	15
94	Lactate dehydrogenase C is required for the protein expression of a sperm-specific isoform of lactate dehydrogenase A. <i>Journal of Biochemistry</i> , 2019, 165, 323-334.	1.7	15
95	Skeletal muscle-specific Keap1 disruption modulates fatty acid utilization and enhances exercise capacity in female mice. <i>Redox Biology</i> , 2021, 43, 101966.	9.0	15
96	A core region of the mafK gene IN promoter directs neuron-specific transcription in vivo. <i>Genes To Cells</i> , 1998, 3, 671-684.	1.2	13
97	NRF2 pathway activation attenuates ageing-related renal phenotypes due to Klotho deficiency. <i>Journal of Biochemistry</i> , 2022, 171, 579-589.	1.7	13
98	CEBPB is required for NRF2-mediated drug resistance in NRF2-activated non-small cell lung cancer cells. <i>Journal of Biochemistry</i> , 2022, 171, 567-578.	1.7	13
99	Feedback repression of PPAR α signaling by Let-7 microRNA. <i>Cell Reports</i> , 2021, 36, 109506.	6.4	12
100	Syndecan 4 Mediates Nrf2-dependent Expansion of Bronchiolar Progenitors That Protect Against Lung Inflammation. <i>Molecular Therapy</i> , 2016, 24, 41-52.	8.2	11
101	Nucleomethylin deficiency impairs embryonic erythropoiesis. <i>Journal of Biochemistry</i> , 2018, 163, 413-423.	1.7	8
102	Sulfur-utilizing cytoprotection and energy metabolism. <i>Current Opinion in Physiology</i> , 2019, 9, 1-8.	1.8	8
103	Hematopoietic Stem and Progenitor Cell Activation During Chronic Dermatitis Provoked by Constitutively Active Aryl-Hydrocarbon Receptor Driven by Keratin 14 Promoter. <i>Toxicological Sciences</i> , 2014, 138, 47-58.	3.1	4
104	Structural instability of Î² kinase Î² ² promotes autophagic degradation through enhancement of Keap1 binding. <i>PLoS ONE</i> , 2018, 13, e0203978.	2.5	4
105	From germ cells to neonates: the beginning of life and the KEAP1-NRF2 system. <i>Journal of Biochemistry</i> , 2020, 167, 133-138.	1.7	4
106	Comment on "Evidence that the ProPerDP method is inadequate for protein persulfidation detection due to lack of specificity". <i>Science Advances</i> , 2021, 7, .	10.3	3
107	IL-11 contribution to tumorigenesis in an NRF2 addiction cancer model. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, SY21-4.	0.0	0