Takao Iwawaki

List of Publications by Year
in descending order

108	8,053	71004	58552
papers	citations	43 h-index	86 g-index

116	116	116	15324
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Mechanisms of liver injury in high fat sugar diet fed mice that lack hepatocyte X-box binding protein 1. PLoS ONE, 2022, 17, e0261789.	1.1	7
2	Intercepting IRE1 kinaseâ€FMRP signaling prevents atherosclerosis progression. EMBO Molecular Medicine, 2022, 14, e15344.	3.3	10
3	Targeting IRE1 endoribonuclease activity alleviates cardiovascular lesions in a murine model of Kawasaki disease vasculitis. JCI Insight, 2022, 7, .	2.3	6
4	The unfolded protein response transducer IRE1Î± promotes reticulophagy in podocytes. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2022, 1868, 166391.	1.8	6
5	Hepatocyte-specific deletion of XBP1 sensitizes mice to liver injury through hyperactivation of IRE1Î±. Cell Death and Differentiation, 2021, 28, 1455-1465.	5.0	20
6	Spatiotemporal analysis of the UPR transition induced by methylmercury in the mouse brain. Archives of Toxicology, 2021, 95, 1241-1250.	1.9	10
7	Inhibition of skin fibrosis in systemic sclerosis by botulinum toxin B via the suppression of oxidative stress. Journal of Dermatology, 2021, 48, 1052-1061.	0.6	3
8	The IRE1/XBP1 signaling axis promotes skeletal muscle regeneration through a cell non-autonomous mechanism. ELife, 2021, 10, .	2.8	11
9	Protein quality control through endoplasmic reticulum-associated degradation maintains haematopoietic stem cell identity and niche interactions. Nature Cell Biology, 2020, 22, 1162-1169.	4.6	32
10	Role of IRE1Î± in podocyte proteostasis and mitochondrial health. Cell Death Discovery, 2020, 6, 128.	2.0	10
11	Protective effect of dimethyl fumarate for the development of pressure ulcers after cutaneous ischemiaâ€reperfusion injury. Wound Repair and Regeneration, 2020, 28, 600-608.	1.5	14
12	IRE1Î± regulates macrophage polarization, PD-L1 expression, and tumor survival. PLoS Biology, 2020, 18, e3000687.	2.6	42
13	IRE1Î± Promotes Zika Virus Infection via XBP1. Viruses, 2020, 12, 278.	1.5	23
14	AAV-mediated ERdj5 overexpression protects against P23H rhodopsin toxicity. Human Molecular Genetics, 2020, 29, 1310-1318.	1.4	10
15	Transgenic mouse model exhibiting weak red fluorescence before and strong green fluorescence after Cre/loxP-mediated recombination. Experimental Animals, 2020, 69, 306-318.	0.7	0
16	Apelin/APJ signaling suppresses the pressure ulcer formation in cutaneous ischemia-reperfusion injury mouse model. Scientific Reports, 2020, 10, 1349.	1.6	21
17	IRE1Î± regulates macrophage polarization, PD-L1 expression, and tumor survival. , 2020, 18, e3000687.		0
18	IRE1Î± regulates macrophage polarization, PD-L1 expression, and tumor survival. , 2020, 18, e3000687.		0

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19	IRE1Î± regulates macrophage polarization, PD-L1 expression, and tumor survival. , 2020, 18, e3000687.		0
20	IRE1Î± regulates macrophage polarization, PD-L1 expression, and tumor survival. , 2020, 18, e3000687.		0
21	Inhibitory effect of kaempferol on skin fibrosis in systemic sclerosis by the suppression of oxidative stress. Journal of Dermatological Science, 2019, 96, 8-17.	1.0	43
22	Zinc deficiency exacerbates pressure ulcers by increasing oxidative stress and ATP in the skin. Journal of Dermatological Science, 2019, 95, 62-69.	1.0	21
23	Molecular Mechanism of Cellular Oxidative Stress Sensing by Keap1. Cell Reports, 2019, 28, 746-758.e4.	2.9	179
24	IRE1Î±â€“XBP1 signaling in leukocytes controls prostaglandin biosynthesis and pain. Science, 2019, 365, .	6.0	91
25	ERdj5 in Innate Immune Cells Is a Crucial Factor for the Mucosal Adjuvanticity of Cholera Toxin. Frontiers in Immunology, 2019, 10, 1249.	2.2	7
26	Danger-associated extracellular ATP counters MDSC therapeutic efficacy in acute GVHD. Blood, 2019, 134, 1670-1682.	0.6	49
27	<scp>MITOL</scp> prevents <scp>ER</scp> stressâ€induced apoptosis by <scp>IRE</scp> 1Î± ubiquitylation at <scp>ER</scp> â€“mitochondria contact sites. EMBO Journal, 2019, 38, e100999.	3.5	81
28	Ablation of the Chaperone Protein ERdj5 Results in a SjÃ¶gren's Syndrome-Like Phenotype in Mice, Consistent With an Upregulated Unfolded Protein Response in Human Patients. Frontiers in Immunology, 2019, 10, 506.	2.2	13
29	Adaptive endoplasmic reticulum stress signalling via IRE1Î±â€“XBP1 preserves self-renewal of haematopoietic and pre-leukaemic stem cells. Nature Cell Biology, 2019, 21, 328-337.	4.6	63
30	Salmonellaexploits HLA-B27 and host unfolded protein responses to promote intracellular replication. Annals of the Rheumatic Diseases, 2019, 78, 74-82.	0.5	37
31	IRE1â€“XBP1 pathway regulates oxidative proinsulin folding in pancreatic Î² cells. Journal of Cell Biology, 2018, 217, 1287-1301.	2.3	89
32	Stabilization of cytokine mRNAs in iNKT cells requires the serine-threonineÂkinase IRE1alpha. Nature Communications, 2018, 9, 5340.	5.8	14
33	ERÎ± promotes murine hematopoietic regeneration through the Ire1Î±-mediated unfolded protein response. ELife, 2018, 7, .	2.8	39
34	Activation of Host IRE1Î±-Dependent Signaling Axis Contributes the Intracellular Parasitism of Brucella melitensis. Frontiers in Cellular and Infection Microbiology, 2018, 8, 103.	1.8	24
35	IRE1Î± governs cytoskeleton remodelling and cell migration through a direct interaction with filamin A. Nature Cell Biology, 2018, 20, 942-953.	4.6	98
36	Botulinum toxin B suppresses the pressure ulcer formation in cutaneous ischemia-reperfusion injury mouse model: Possible regulation of oxidative and endoplasmic reticulum stress. Journal of Dermatological Science, 2018, 90, 144-153.	1.0	18

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37	IRE1Î± Activation in Bone Marrow-Derived Dendritic Cells Modulates Innate Recognition of Melanoma Cells and Favors CD8+ T Cell Priming. Frontiers in Immunology, 2018, 9, 3050.	2.2	31
38	Defective ATG16L1-mediated removal of IRE1Î± drives Crohnâ€™s diseaseâ€“like ileitis. Journal of Experimental Medicine, 2017, 214, 401-422.	4.2	141
39	Deletion of inositol-requiring enzyme-1Î± in podocytes disrupts glomerular capillary integrity and autophagy. Molecular Biology of the Cell, 2017, 28, 1636-1651.	0.9	28
40	Regulated IRE1-dependent mRNA decay sets the threshold for dendritic cell survival. Nature Cell Biology, 2017, 19, 698-710.	4.6	93
41	IRE1 signaling exacerbates Alzheimerâ€™s disease pathogenesis. Acta Neuropathologica, 2017, 134, 489-506.	3.9	147
42	Transgenic mouse model for imaging of ATF4 translational activation-related cellular stress responses in vivo. Scientific Reports, 2017, 7, 46230.	1.6	15
43	Nuclear factor (erythroid derived 2)-like 2 activation increases exercise endurance capacity via redox modulation in skeletal muscles. Scientific Reports, 2017, 7, 12902.	1.6	51
44	Protective effect of mesenchymal stem cells on the pressure ulcer formation by the regulation of oxidative and endoplasmic reticulum stress. Scientific Reports, 2017, 7, 17186.	1.6	45
45	Real-time in vivo imaging reveals localised Nrf2 stress responses associated with direct and metabolism-dependent drug toxicity. Scientific Reports, 2017, 7, 16084.	1.6	11
46	Modulation of Unfolded Protein Response by Methylmercury. Biological and Pharmaceutical Bulletin, 2017, 40, 1595-1598.	0.6	12
47	Transgenic Mouse Models for Molecular Optical Imaging In Vivo . Nippon Laser Igakkaishi, 2017, 37, 454-458.	0.0	0
48	Endoplasmic Reticulum Stress Sensor IRE1Î± Enhances IL-23 Expression by Human Dendritic Cells. Frontiers in Immunology, 2017, 8, 639.	2.2	33
49	IRE1Î± promotes viral infection by conferring resistance to apoptosis. Science Signaling, 2017, 10, .	1.6	33
50	Necrotic Cell Sensor Clec4e Promotes a Proatherogenic Macrophage Phenotype Through Activation of the Unfolded Protein Response. Circulation, 2016, 134, 1039-1051.	1.6	63
51	Crocetin protects ultraviolet A-induced oxidative stress and cell death in skin in vitro and in vivo. European Journal of Pharmacology, 2016, 789, 244-253.	1.7	33
52	Saturated Fatty Acids Engage an IRE1Î±-Dependent Pathway to Activate the NLRP3 Inflammasome in Myeloid Cells. Cell Reports, 2016, 14, 2611-2623.	2.9	154
53	N-RasG12D-Mediated Dysregulation of IRE1alpha-Xbp1s Signaling Promotes Pre-Leukemic Hematopoietic Stem Cell Expansion. Blood, 2016, 128, 567-567.	0.6	0
54	Constitutive role of <scp>GADD</scp>34 and <scp>CR</scp>eP in cancellation of phosphoâ€<scp>eIF</scp>2Î±â€dependent translational attenuation and insulin biosynthesis in pancreatic Î² cells. Genes To Cells, 2015, 20, 871-886.	0.5	7

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55	Transgenic mouse model for imaging of interleukin-1Î²-related inflammation in vivo. Scientific Reports, 2015, 5, 17205.	1.6	14
56	Regulation of the unfolded protein response via S-nitrosylation of sensors of endoplasmic reticulum stress. Scientific Reports, 2015, 5, 14812.	1.6	66
57	In Vivo Visualization of Endoplasmic Reticulum Stress in the Retina Using the ERAI Reporter Mouse. , 2015, 56, 6961.		20
58	IRE1Î± is an endogenous substrate of endoplasmic-reticulum-associated degradation. Nature Cell Biology, 2015, 17, 1546-1555.	4.6	173
59	2-Phenyl-APB-144-Induced Retinal Pigment Epithelium Degeneration and Its Underlying Mechanisms. Journal of Ocular Pharmacology and Therapeutics, 2015, 31, 570-584.	0.6	2
60	Correlation Between Attenuation of Protein Disulfide Isomerase Activity Through S-Mercuration and Neurotoxicity Induced by Methylmercury. Neurotoxicity Research, 2015, 27, 99-105.	1.3	25
61	IRE1Î±/XBP1-mediated branch of the unfolded protein response regulates osteoclastogenesis. Journal of Clinical Investigation, 2015, 125, 3269-3279.	3.9	47
62	The co-chaperone and reductase ERdj5 facilitates rod opsin biogenesis and quality control. Human Molecular Genetics, 2014, 23, 6594-6606.	1.4	23
63	Protection afforded by pre- or post-treatment with 4-phenylbutyrate against liver injury induced by acetaminophen overdose in mice. Pharmacological Research, 2014, 87, 26-41.	3.1	26
64	The unfolded-protein-response sensor IRE-1Î± regulates the function of CD8Î±+ dendritic cells. Nature Immunology, 2014, 15, 248-257.	7.0	223
65	Evaluating experimental cerebral malaria using oxidative stress indicator OKD48 mice. International Journal for Parasitology, 2014, 44, 681-685.	1.3	20
66	Temporal activation of Nrf2 in the penumbra and Nrf2 activator-mediated neuroprotection in ischemiaâ€“reperfusion injury. Free Radical Biology and Medicine, 2014, 72, 124-133.	1.3	63
67	Identification of the redox partners of ERdj5/JPDI, a PDI family member, from an animal tissue. Biochemical and Biophysical Research Communications, 2013, 440, 245-250.	1.0	14
68	Membrane lipid saturation activates <scp>IRE</scp>1Î± without inducing clustering. Genes To Cells, 2013, 18, 798-809.	0.5	70
69	Paneth cells as a site of origin for intestinal inflammation. Nature, 2013, 503, 272-276.	13.7	605
70	Endoplasmic reticulum stress signal impairs erythropoietin production: a role for ATF4. American Journal of Physiology - Cell Physiology, 2013, 304, C342-C353.	2.1	39
71	Positive contribution of IRE1Î±â€“XBP1 pathway to the expression of placental cathepsins. Biochemical and Biophysical Research Communications, 2013, 433, 426-431.	1.0	0
72	Comparative analysis of ER stress response into HIV protease inhibitors: Lopinavir but not darunavir induces potent ER stress response via ROS/JNK pathway. Free Radical Biology and Medicine, 2013, 65, 778-788.	1.3	32

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73	The role of the unfolded protein response in diabetes mellitus. Seminars in Immunopathology, 2013, 35, 333-350.	2.8	22
74	CHOP is a critical regulator of acetaminophen-induced hepatotoxicity. Journal of Hepatology, 2013, 59, 495-503.	1.8	155
75	ER stress transcription factor Xbp1 suppresses intestinal tumorigenesis and directs intestinal stem cells. Journal of Experimental Medicine, 2013, 210, 2041-2056.	4.2	120
76	Microsomal Triglyceride Transfer Protein Inhibition Induces Endoplasmic Reticulum Stress and Increases Gene Transcription via Ire1Î±/cJun to Enhance Plasma ALT/AST. Journal of Biological Chemistry, 2013, 288, 14372-14383.	1.6	50
77	Negative feedback by IRE1Î² optimizes mucin production in goblet cells. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2864-2869.	3.3	138
78	ER stress transcription factor Xbp1 suppresses intestinal tumorigenesis and directs intestinal stem cells. Journal of Cell Biology, 2013, 202, 2027OIA100.	2.3	0
79	IRE1Î± activation protects mice against acetaminophen-induced hepatotoxicity. Journal of Experimental Medicine, 2012, 209, 307-318.	4.2	133
80	Silencing of Lipid Metabolism Genes through IRE1Î±-Mediated mRNA Decay Lowers Plasma Lipids in Mice. Cell Metabolism, 2012, 16, 487-499.	7.2	239
81	A transgenic mouse model for monitoring oxidative stress. Scientific Reports, 2012, 2, 229.	1.6	71
82	Direct Association of Unfolded Proteins with Mammalian ER Stress Sensor, IRE1Î². PLoS ONE, 2012, 7, e51290.	1.1	50
83	Detection of ER stress in vivo by Raman spectroscopy. Biochemical and Biophysical Research Communications, 2011, 405, 37-41.	1.0	11
84	Function of yeast and amphioxus tRNA ligase in IRE1alpha-dependent XBP1 mRNA splicing. Biochemical and Biophysical Research Communications, 2011, 413, 527-531.	1.0	10
85	The IRE1Î±â€“XBP1 pathway is essential for osteoblast differentiation through promoting transcription of Osterix. EMBO Reports, 2011, 12, 451-457.	2.0	103
86	C/EBP Homologous Protein Deficiency Attenuates Myocardial Reperfusion Injury by Inhibiting Myocardial Apoptosis and Inflammation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 1124-1132.	1.1	135
87	A reporter for tracking the UPR in vivo reveals patterns of temporal and cellular stress during atherosclerotic progression. Journal of Lipid Research, 2011, 52, 1033-1038.	2.0	24
88	Positive contribution of ERdj5/JPDI to endoplasmic reticulum protein quality control in the salivary gland. Biochemical Journal, 2010, 425, 117-128.	1.7	41
89	Positive contribution of the IRE1Î±â€“XBP1 pathway to placental expression of CEA family genes. FEBS Letters, 2010, 584, 1066-1070.	1.3	7
90	IRE1Î± Disruption Causes Histological Abnormality of Exocrine Tissues, Increase of Blood Glucose Level, and Decrease of Serum Immunoglobulin Level. PLoS ONE, 2010, 5, e13052.	1.1	89

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91	The Endoplasmic Reticulum Stress-C/EBP Homologous Protein Pathway-Mediated Apoptosis in Macrophages Contributes to the Instability of Atherosclerotic Plaques. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1925-1932.	1.1	180
92	Identification of a consensus element recognized and cleaved by IRE1Î±. Nucleic Acids Research, 2010, 38, 6265-6273.	6.5	132
93	Function of IRE1 alpha in the placenta is essential for placental development and embryonic viability. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16657-16662.	3.3	320
94	Activation of mammalian IRE1Î± upon ER stress depends on dissociation of BiP rather than on direct interaction with unfolded proteins. Experimental Cell Research, 2009, 315, 2496-2504.	1.2	148
95	Angiopoietin-like Protein 2 Promotes Chronic Adipose Tissue Inflammation and Obesity-Related Systemic Insulin Resistance. Cell Metabolism, 2009, 10, 178-188.	7.2	302
96	Cotranslational Targeting of XBP1 Protein to the Membrane Promotes Cytoplasmic Splicing of Its Own mRNA. Molecular Cell, 2009, 34, 191-200.	4.5	151
97	Pioglitazone Reduces ER Stress in the Liver: Direct Monitoring of in vivo ER Stress Using ER Stress-activated Indicator Transgenic Mice. Endocrine Journal, 2009, 56, 1103-1111.	0.7	43
98	Direct monitoring of in vivo ER stress during the development of insulin resistance with ER stress-activated indicator transgenic mice. Biochemical and Biophysical Research Communications, 2008, 366, 545-550.	1.0	38
99	An N-terminal 78 amino acid truncation of REIC/Dkk-3 effectively induces apoptosis. Biochemical and Biophysical Research Communications, 2008, 375, 614-618.	1.0	19
100	Site-specific cleavage of CD59 mRNA by endoplasmic reticulum-localized ribonuclease, IRE1. Biochemical and Biophysical Research Communications, 2007, 360, 122-127.	1.0	33
101	Regulation of human STARD4 gene expression under endoplasmic reticulum stress. Biochemical and Biophysical Research Communications, 2006, 343, 1079-1085.	1.0	21
102	Analysis of the XBP1 splicing mechanism using endoplasmic reticulum stress-indicators. Biochemical and Biophysical Research Communications, 2006, 350, 709-715.	1.0	57
103	Transgenic mouse model for monitoring endoplasmic reticulum stress in vivo. Nature Medicine, 2004, 10, 1014-1014.	15.2	3
104	A transgenic mouse model for monitoring endoplasmic reticulum stress. Nature Medicine, 2004, 10, 98-102.	15.2	875
105	Liver regeneration in heparin-binding EGF-like growth factor transgenic mice after partial hepatectomy. Gastroenterology, 2003, 124, 701-707.	0.6	77
106	Diphtheria toxin receptorâ€“mediated conditional and targeted cell ablation in transgenic mice. Nature Biotechnology, 2001, 19, 746-750.	9.4	428
107	Translational control by the ER transmembrane kinase/ribonuclease IRE1 under ER stress. Nature Cell Biology, 2001, 3, 158-164.	4.6	266
108	Identification of a Potential Nurr1 Response Element That Activates the Tyrosine Hydroxylase Gene Promoter in Cultured Cells. Biochemical and Biophysical Research Communications, 2000, 274, 590-595.	1.0	100