

Fumihiko Urano

List of Publications by Year in descending order

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104
papers

12,954
citations

53751

45
h-index

30894

102
g-index

110
all docs

110
docs citations

110
times ranked

17194
citing authors

#	ARTICLE	IF	CITATIONS
1	IRE1 couples endoplasmic reticulum load to secretory capacity by processing the XBP-1 mRNA. <i>Nature</i> , 2002, 415, 92-96.	13.7	2,452
2	Autophagy Is Activated for Cell Survival after Endoplasmic Reticulum Stress. <i>Molecular and Cellular Biology</i> , 2006, 26, 9220-9231.	1.1	1,627
3	Transcriptional and Translational Control in the Mammalian Unfolded Protein Response. <i>Annual Review of Cell and Developmental Biology</i> , 2002, 18, 575-599.	4.0	838
4	Measuring ER Stress and the Unfolded Protein Response Using Mammalian Tissue Culture System. <i>Methods in Enzymology</i> , 2011, 490, 71-92.	0.4	721
5	Thioredoxin-Interacting Protein Mediates ER Stress-Induced β Cell Death through Initiation of the Inflammasome. <i>Cell Metabolism</i> , 2012, 16, 265-273.	7.2	568
6	Compartment-specific perturbation of protein handling activates genes encoding mitochondrial chaperones. <i>Journal of Cell Science</i> , 2004, 117, 4055-4066.	1.2	522
7	Regulation of insulin biosynthesis in pancreatic beta cells by an endoplasmic reticulum-resident protein kinase IRE1. <i>Cell Metabolism</i> , 2006, 4, 245-254.	7.2	381
8	Wolfram syndrome 1 gene negatively regulates ER stress signaling in rodent and human cells. <i>Journal of Clinical Investigation</i> , 2010, 120, 744-755.	3.9	336
9	Endoplasmic reticulum stress and pancreatic β -cell death. <i>Trends in Endocrinology and Metabolism</i> , 2011, 22, 266-74.	3.1	310
10	WFS1 Is a Novel Component of the Unfolded Protein Response and Maintains Homeostasis of the Endoplasmic Reticulum in Pancreatic β -Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 39609-39615.	1.6	295
11	Transcriptional Regulation of VEGF-A by the Unfolded Protein Response Pathway. <i>PLoS ONE</i> , 2010, 5, e9575.	1.1	218
12	Wolfram Syndrome: Diagnosis, Management, and Treatment. <i>Current Diabetes Reports</i> , 2016, 16, 6.	1.7	198
13	A survival pathway for <i>Caenorhabditis elegans</i> with a blocked unfolded protein response. <i>Journal of Cell Biology</i> , 2002, 158, 639-646.	2.3	181
14	The Role of IRE1 β in the Degradation of Insulin mRNA in Pancreatic β -Cells. <i>PLoS ONE</i> , 2008, 3, e1648.	1.1	162
15	A Novel Chimera Gene between EWS and E1A-F, Encoding the Adenovirus E1A Enhancer-Binding Protein, in Extrasosseous Ewing's Sarcoma. <i>Biochemical and Biophysical Research Communications</i> , 1996, 219, 608-612.	1.0	153
16	Fluoride Induces Endoplasmic Reticulum Stress in Ameloblasts Responsible for Dental Enamel Formation. <i>Journal of Biological Chemistry</i> , 2005, 280, 23194-23202.	1.6	147
17	Poly-dipeptides encoded by the C9ORF72 repeats block global protein translation. <i>Human Molecular Genetics</i> , 2016, 25, 1803-1813.	1.4	146
18	Endoplasmic reticulum stress in β -cells and development of diabetes. <i>Current Opinion in Pharmacology</i> , 2009, 9, 763-770.	1.7	139

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19	FUS/TLS assembles into stress granules and is a prosurvival factor during hyperosmolar stress. <i>Journal of Cellular Physiology</i> , 2013, 228, 2222-2231.	2.0	139
20	Upregulation of BiP and CHOP by the unfolded-protein response is independent of presenilin expression. <i>Nature Cell Biology</i> , 2000, 2, 863-870.	4.6	136
21	Intermittent fasting preserves beta-cell mass in obesity-induced diabetes via the autophagy-lysosome pathway. <i>Autophagy</i> , 2017, 13, 1952-1968.	4.3	131
22	A calcium-dependent protease as a potential therapeutic target for Wolfram syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5292-301.	3.3	128
23	Gene-edited human stem cell-derived β^2 cells from a patient with monogenic diabetes reverse preexisting diabetes in mice. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	123
24	Calcium Efflux From the Endoplasmic Reticulum Leads to β^2 -Cell Death. <i>Endocrinology</i> , 2014, 155, 758-768.	1.4	122
25	AIP1 Is Critical in Transducing IRE1-mediated Endoplasmic Reticulum Stress Response. <i>Journal of Biological Chemistry</i> , 2008, 283, 11905-11912.	1.6	104
26	The IRE1-XBP1 pathway is essential for osteoblast differentiation through promoting transcription of <i>Osterix</i> . <i>EMBO Reports</i> , 2011, 12, 451-457.	2.0	103
27	Autosomal Dominant Diabetes Arising From a Wolfram Syndrome 1 Mutation. <i>Diabetes</i> , 2013, 62, 3943-3950.	0.3	100
28	High ER stress in β^2 -cells stimulates intracellular degradation of misfolded insulin. <i>Biochemical and Biophysical Research Communications</i> , 2004, 324, 166-170.	1.0	86
29	The ATF6 pathway of the ER stress response contributes to enhanced viability in glioblastoma. <i>Oncotarget</i> , 2016, 7, 2080-2092.	0.8	86
30	Beta cells transfer vesicles containing insulin to phagocytes for presentation to T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5496-502.	3.3	85
31	Rpl13a small nucleolar RNAs regulate systemic glucose metabolism. <i>Journal of Clinical Investigation</i> , 2016, 126, 4616-4625.	3.9	78
32	Dominant ER Stress-Inducing <i>WFS1</i> Mutations Underlie a Genetic Syndrome of Neonatal/Infancy-Onset Diabetes, Congenital Sensorineural Deafness, and Congenital Cataracts. <i>Diabetes</i> , 2017, 66, 2044-2053.	0.3	77
33	The Role of Nitric Oxide and the Unfolded Protein Response in Cytokine-Induced β^2 -Cell Death. <i>Diabetes</i> , 2008, 57, 124-132.	0.3	76
34	Cdc42 and Rac1 are major contributors to the saturated fatty acid-stimulated JNK pathway in hepatocytes. <i>Journal of Hepatology</i> , 2012, 56, 192-198.	1.8	73
35	The binary switch that controls the life and death decisions of ER stressed β^2 cells. <i>Current Opinion in Cell Biology</i> , 2011, 23, 207-215.	2.6	69
36	IRE1-Dependent Activation of AMPK in Response to Nitric Oxide. <i>Molecular and Cellular Biology</i> , 2011, 31, 4286-4297.	1.1	66

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37	XBP1 activates the transcription of its target genes via an ACGT core sequence under ER stress. <i>Biochemical and Biophysical Research Communications</i> , 2005, 331, 1146-1153.	1.0	64
38	Molecular Analysis of Ewing's Sarcoma: Another Fusion Gene, EWS-E1AF, Available for Diagnosis. <i>Japanese Journal of Cancer Research</i> , 1998, 89, 703-711.	1.7	63
39	Primary cilia control glucose homeostasis via islet paracrine interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 8912-8923.	3.3	63
40	Estrogens Promote Misfolded Proinsulin Degradation to Protect Insulin Production and Delay Diabetes. <i>Cell Reports</i> , 2018, 24, 181-196.	2.9	61
41	Endoplasmic Reticulum Stress-Induced Apoptosis and Autoimmunity in Diabetes. <i>Current Molecular Medicine</i> , 2006, 6, 71-77.	0.6	59
42	Stress hyperactivation in the β -cell. <i>Islets</i> , 2010, 2, 1-9.	0.9	57
43	Wolfram syndrome 1 and adenylyl cyclase 8 interact at the plasma membrane to regulate insulin production and secretion. <i>Nature Cell Biology</i> , 2012, 14, 1105-1112.	4.6	57
44	Endoplasmic reticulum stress in beta cells and autoimmune diabetes. <i>Current Opinion in Immunology</i> , 2016, 43, 60-66.	2.4	53
45	Valproate, a Mood Stabilizer, Induces WFS1 Expression and Modulates Its Interaction with ER Stress Protein GRP94. <i>PLoS ONE</i> , 2009, 4, e4134.	1.1	53
46	Mesencephalic Astrocyte-Derived Neurotrophic Factor as a Urine Biomarker for Endoplasmic Reticulum Stress-Related Kidney Diseases. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 2974-2982.	3.0	49
47	ER Stress as a Trigger for β -Cell Dysfunction and Autoimmunity in Type 1 Diabetes. <i>Diabetes</i> , 2012, 61, 780-781.	0.3	48
48	Monogenic diabetes syndromes: Locus-specific databases for Alström, Wolfram, and Thiamine-responsive megaloblastic anemia. <i>Human Mutation</i> , 2017, 38, 764-777.	1.1	47
49	Cytoplasmic Polyadenylation Element Binding Protein Deficiency Stimulates PTEN and Stat3 mRNA Translation and Induces Hepatic Insulin Resistance. <i>PLoS Genetics</i> , 2012, 8, e1002457.	1.5	46
50	Neuroplastin Modulates Anti-inflammatory Effects of MANF. <i>IScience</i> , 2020, 23, 101810.	1.9	46
51	Insulin regulates carboxypeptidase E by modulating translation initiation scaffolding protein eIF4C1 in pancreatic β cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2319-28.	3.3	42
52	High frequency of inactivation of the imprinted H19 gene in ?sporadic? hepatoblastoma. , 1999, 82, 490-497.		41
53	Discovery of endoplasmic reticulum calcium stabilizers to rescue ER-stressed podocytes in nephrotic syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14154-14163.	3.3	39
54	Endoplasmic Reticulum Stress Signaling in Pancreatic β -Cells. <i>Antioxidants and Redox Signaling</i> , 2007, 9, 2335-2344.	2.5	37

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55	The binary switch between life and death of endoplasmic reticulum-stressed β^2 cells. <i>Current Opinion in Endocrinology, Diabetes and Obesity</i> , 2010, 17, 107-112.	1.2	37
56	IRE1 prevents endoplasmic reticulum membrane permeabilization and cell death under pathological conditions. <i>Science Signaling</i> , 2015, 8, ra62.	1.6	36
57	Current Landscape of Treatments for Wolfram Syndrome. <i>Trends in Pharmacological Sciences</i> , 2019, 40, 711-714.	4.0	36
58	Nrf2/antioxidant pathway mediates β^2 cell self-repair after damage by high-fat diet-induced oxidative stress. <i>JCI Insight</i> , 2017, 2, .	2.3	36
59	KLF15 Is a Molecular Link between Endoplasmic Reticulum Stress and Insulin Resistance. <i>PLoS ONE</i> , 2013, 8, e77851.	1.1	35
60	Dorfin-CHIP chimeric proteins potently ubiquitylate and degrade familial ALS-related mutant SOD1 proteins and reduce their cellular toxicity. <i>Neurobiology of Disease</i> , 2007, 25, 331-341.	2.1	34
61	Calpain inhibitor and ibudilast rescue β^2 cell functions in a cellular model of Wolfram syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17389-17398.	3.3	34
62	Wolfram syndrome 1 gene regulates pathways maintaining beta-cell health and survival. <i>Laboratory Investigation</i> , 2020, 100, 849-862.	1.7	34
63	Pathological endoplasmic reticulum stress mediated by the IRE1 pathway contributes to pre-insulinitic beta cell apoptosis in a virus-induced rat model of type 1 diabetes. <i>Diabetologia</i> , 2013, 56, 2638-2646.	2.9	32
64	Protein kinase C signaling during T cell activation induces the endoplasmic reticulum stress response. <i>Cell Stress and Chaperones</i> , 2008, 13, 421-434.	1.2	29
65	The IRE1 β -XBP1 Pathway Positively Regulates Parathyroid Hormone (PTH)/PTH-related Peptide Receptor Expression and Is Involved in PTH-induced Osteoclastogenesis. <i>Journal of Biological Chemistry</i> , 2013, 288, 1691-1695.	1.6	29
66	Neuroimaging evidence of deficient axon myelination in Wolfram syndrome. <i>Scientific Reports</i> , 2016, 6, 21167.	1.6	28
67	Targeting Cellular Calcium Homeostasis to Prevent Cytokine-Mediated Beta Cell Death. <i>Scientific Reports</i> , 2017, 7, 5611.	1.6	28
68	Wolfram Syndrome iPS Cells: The First Human Cell Model of Endoplasmic Reticulum Disease. <i>Diabetes</i> , 2014, 63, 844-846.	0.3	27
69	Transcriptional Regulation of X-Box-binding Protein One (XBP1) by Hepatocyte Nuclear Factor 4 β (HNF4 β) Is Vital to Beta-cell Function. <i>Journal of Biological Chemistry</i> , 2016, 291, 6146-6157.	1.6	25
70	Novel Treatment of Chronic Graft-Versus-Host Disease in Mice Using the ER Stress Reducer 4-Phenylbutyric Acid. <i>Scientific Reports</i> , 2017, 7, 41939.	1.6	25
71	A phase 1b/2a clinical trial of dantrolene sodium in patients with Wolfram syndrome. <i>JCI Insight</i> , 2021, 6, .	2.3	24
72	Low serum osteocalcin concentration is associated with incident type 2 diabetes mellitus in Japanese women. <i>Journal of Bone and Mineral Metabolism</i> , 2018, 36, 470-477.	1.3	23

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73	Wolframin is a novel regulator of tau pathology and neurodegeneration. <i>Acta Neuropathologica</i> , 2022, 143, 547-569.	3.9	22
74	A Novel Role for the Centrosomal Protein, Pericentrin, in Regulation of Insulin Secretory Vesicle Docking in Mouse Pancreatic β -cells. <i>PLoS ONE</i> , 2010, 5, e11812.	1.1	19
75	Transmission of proteotoxicity across cellular compartments. <i>Genes and Development</i> , 2002, 16, 1307-1313.	2.7	18
76	Monogenic and syndromic diabetes due to endoplasmic reticulum stress. <i>Journal of Diabetes and Its Complications</i> , 2021, 35, 107618.	1.2	18
77	A target-agnostic screen identifies approved drugs to stabilize the endoplasmic reticulum-resident proteome. <i>Cell Reports</i> , 2021, 35, 109040.	2.9	18
78	Lack of matrix metalloproteinase (MMP)-1 and -3 expression in Ewing sarcoma may be due to loss of accessibility of the MMP regulatory element to the specific fusion protein in vivo. <i>Biochemical and Biophysical Research Communications</i> , 2002, 293, 61-71.	1.0	16
79	Establishment of a system for monitoring endoplasmic reticulum redox state in mammalian cells. <i>Laboratory Investigation</i> , 2013, 93, 1254-1258.	1.7	15
80	Improved function and proliferation of adult human beta cells engrafted in diabetic immunodeficient NOD-scid IL2r γ ;null mice treated with alogliptin. <i>Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy</i> , 2013, 6, 493.	1.1	15
81	<i>Listeria monocytogenes</i> induces an interferon α -enhanced activation of the integrated stress response that is detrimental for resolution of infection in mice. <i>European Journal of Immunology</i> , 2017, 47, 830-840.	1.6	14
82	Acute myeloid leukemia possessing jumping translocation is related to highly elevated levels of EAT/mcl-1, a Bcl-2 related gene with anti-apoptotic functions. <i>Leukemia Research</i> , 2000, 24, 73-77.	0.4	13
83	A case of intra-abdominal desmoplastic small-round-cell tumor with elevated serum CA125. <i>Pediatric Surgery International</i> , 2002, 18, 238-240.	0.6	13
84	Targeting endoplasmic reticulum to combat juvenile diabetes. <i>Nature Reviews Endocrinology</i> , 2014, 10, 129-130.	4.3	13
85	Loss of Function of WFS1 Causes ER Stress-Mediated Inflammation in Pancreatic Beta-Cells. <i>Frontiers in Endocrinology</i> , 2022, 13, 849204.	1.5	13
86	Islet cell hyperplasia in transgenic mice overexpressing EAT/mcl-1, a bcl-2 related gene. <i>Molecular and Cellular Endocrinology</i> , 2003, 203, 105-116.	1.6	11
87	Endoplasmic Reticulum: An Interface Between the Immune System and Metabolism. <i>Diabetes</i> , 2014, 63, 48-49.	0.3	11
88	A soluble endoplasmic reticulum factor as regenerative therapy for Wolfram syndrome. <i>Laboratory Investigation</i> , 2020, 100, 1197-1207.	1.7	9
89	Altered neuronal physiology, development, and function associated with a common chromosome 15 duplication involving CHRNA7. <i>BMC Biology</i> , 2021, 19, 147.	1.7	9
90	Mammalian ECD Protein Is a Novel Negative Regulator of the PERK Arm of the Unfolded Protein Response. <i>Molecular and Cellular Biology</i> , 2017, 37, .	1.1	7

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91	Fast and Efficient Generation of Isogenic Induced Pluripotent Stem Cell Lines Using Adenine Base Editing. <i>CRISPR Journal</i> , 2021, 4, 502-518.	1.4	6
92	Digenic Variants in the FGF21 Signaling Pathway Associated with Severe Insulin Resistance and Pseudoacromegaly. <i>Journal of the Endocrine Society</i> , 2020, 4, bvaa138.	0.1	6
93	Establishment and Characterization of a Clonal Human Extraskeletal Ewing's Sarcoma Cell Line, EES1. <i>Tohoku Journal of Experimental Medicine</i> , 2006, 210, 221-230.	0.5	5
94	Bisphosphonates prevent age-related weight loss in Japanese postmenopausal women. <i>Journal of Bone and Mineral Metabolism</i> , 2018, 36, 734-740.	1.3	4
95	Pancreatic stone protein/regenerating protein is a potential biomarker for endoplasmic reticulum stress in beta cells. <i>Scientific Reports</i> , 2019, 9, 5199.	1.6	3
96	Lessons from Wolfram Syndrome: Initiation of DDAVP Therapy Causes Renal Salt Wasting Due to Elevated ANP/BNP Levels, Rescued by Fludrocortisone Treatment. <i>Indian Journal of Pediatrics</i> , 2021, 88, 582-585.	0.3	3
97	Production of BBF2H7â€derived small peptide fragments via endoplasmic reticulum stressâ€dependent regulated intramembrane proteolysis. <i>FASEB Journal</i> , 2020, 34, 865-880.	0.2	2
98	Two Cases of Wolfram Syndrome Who Were Initially Diagnosed With Type 1 Diabetes. <i>AACE Clinical Case Reports</i> , 2022, , .	0.4	2
99	Plasma Neurofilament Light Chain Levels Are Elevated in Children and Young Adults With Wolfram Syndrome. <i>Frontiers in Neuroscience</i> , 2022, 16, 795317.	1.4	2
100	Research Resource: Monitoring Endoplasmic Reticulum Membrane Integrity in Î²-Cells at the Single-Cell Level. <i>Molecular Endocrinology</i> , 2015, 29, 473-480.	3.7	1
101	Novel elucidation and treatment of pancreatic chronic graft-versus-host disease in mice. <i>Royal Society Open Science</i> , 2018, 5, 181067.	1.1	1
102	A novel detrimental homozygous mutation in the WFS1 gene in two sisters from nonconsanguineous parents with untreated diabetes insipidus. <i>Clinical Case Reports (discontinued)</i> , 2019, 7, 2355-2357.	0.2	1
103	Deficiency of WFS1 increases vulnerability to pathological tau in vitro and in vivo. <i>Alzheimer's and Dementia</i> , 2020, 16, e042085.	0.4	1
104	MON-078 WFS1 Related Disorder in A 4-Month Old Girl. <i>Journal of the Endocrine Society</i> , 2020, 4, .	0.1	0