

Heather P Harding

List of Publications by Year in descending order

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103
papers

44,306
citations

10389

72
h-index

28297

105
g-index

117
all docs

117
docs citations

117
times ranked

35498
citing authors

#	ARTICLE	IF	CITATIONS
1	Protein translation and folding are coupled by an endoplasmic-reticulum-resident kinase. <i>Nature</i> , 1999, 397, 271-274.	27.8	2,856
2	An Integrated Stress Response Regulates Amino Acid Metabolism and Resistance to Oxidative Stress. <i>Molecular Cell</i> , 2003, 11, 619-633.	9.7	2,791
3	Regulated Translation Initiation Controls Stress-Induced Gene Expression in Mammalian Cells. <i>Molecular Cell</i> , 2000, 6, 1099-1108.	9.7	2,743
4	Coupling of Stress in the ER to Activation of JNK Protein Kinases by Transmembrane Protein Kinase IRE1. <i>Science</i> , 2000, 287, 664-666.	12.6	2,595
5	IRE1 couples endoplasmic reticulum load to secretory capacity by processing the XBP-1 mRNA. <i>Nature</i> , 2002, 415, 92-96.	27.8	2,452
6	Dynamic interaction of BiP and ER stress transducers in the unfolded-protein response. <i>Nature Cell Biology</i> , 2000, 2, 326-332.	10.3	2,397
7	Perk Is Essential for Translational Regulation and Cell Survival during the Unfolded Protein Response. <i>Molecular Cell</i> , 2000, 5, 897-904.	9.7	1,746
8	CHOP induces death by promoting protein synthesis and oxidation in the stressed endoplasmic reticulum. <i>Genes and Development</i> , 2004, 18, 3066-3077.	5.9	1,648
9	Somatic <i>CALR</i> Mutations in Myeloproliferative Neoplasms with Nonmutated <i>JAK2</i> . <i>New England Journal of Medicine</i> , 2013, 369, 2391-2405.	27.0	1,556
10	A Selective Inhibitor of eIF2 γ Dephosphorylation Protects Cells from ER Stress. <i>Science</i> , 2005, 307, 935-939.	12.6	1,277
11	Feedback Inhibition of the Unfolded Protein Response by GADD34-Mediated Dephosphorylation of eIF2 γ . <i>Journal of Cell Biology</i> , 2001, 153, 1011-1022.	5.2	1,187
12	Diabetes Mellitus and Exocrine Pancreatic Dysfunction in <i>Perk^Δ/Δ Mice Reveals a Role for Translational Control in Secretory Cell Survival. <i>Molecular Cell</i>, 2001, 7, 1153-1163.</i>	9.7	1,081
13	GCN2 Kinase in T Cells Mediates Proliferative Arrest and Anergy Induction in Response to Indoleamine 2,3-Dioxygenase. <i>Immunity</i> , 2005, 22, 633-642.	14.3	1,077
14	Transcriptional and Translational Control in the Mammalian Unfolded Protein Response. <i>Annual Review of Cell and Developmental Biology</i> , 2002, 18, 575-599.	9.4	838
15	Translation reinitiation at alternative open reading frames regulates gene expression in an integrated stress response. <i>Journal of Cell Biology</i> , 2004, 167, 27-33.	5.2	788
16	The endoplasmic reticulum is the site of cholesterol-induced cytotoxicity in macrophages. <i>Nature Cell Biology</i> , 2003, 5, 781-792.	10.3	780
17	Targeting the unfolded protein response in disease. <i>Nature Reviews Drug Discovery</i> , 2013, 12, 703-719.	46.4	765
18	Cloning of mammalian <i>Ire1</i> reveals diversity in the ER stress responses. <i>EMBO Journal</i> , 1998, 17, 5708-5717.	7.8	701

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19	ER stress-regulated translation increases tolerance to extreme hypoxia and promotes tumor growth. <i>EMBO Journal</i> , 2005, 24, 3470-3481.	7.8	634
20	Differential Activation of Peroxisome Proliferator-activated Receptors by Eicosanoids. <i>Journal of Biological Chemistry</i> , 1995, 270, 23975-23983.	3.4	609
21	Translational Repression Mediates Activation of Nuclear Factor Kappa B by Phosphorylated Translation Initiation Factor 2. <i>Molecular and Cellular Biology</i> , 2004, 24, 10161-10168.	2.3	566
22	Compartment-specific perturbation of protein handling activates genes encoding mitochondrial chaperones. <i>Journal of Cell Science</i> , 2004, 117, 4055-4066.	2.0	522
23	Endoplasmic Reticulum Stress and the Unfolded Protein Response in Cellular Models of Parkinson's Disease. <i>Journal of Neuroscience</i> , 2002, 22, 10690-10698.	3.6	515
24	Role of ERO1 α -mediated stimulation of inositol 1,4,5-triphosphate receptor activity in endoplasmic reticulum stress-induced apoptosis. <i>Journal of Cell Biology</i> , 2009, 186, 783-792.	5.2	499
25	The molecular basis for selective inhibition of unconventional mRNA splicing by an IRE1-binding small molecule. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E869-78.	7.1	476
26	Selective Inhibition of a Regulatory Subunit of Protein Phosphatase 1 Restores Proteostasis. <i>Science</i> , 2011, 332, 91-94.	12.6	475
27	Activating Transcription Factor 3 Is Integral to the Eukaryotic Initiation Factor 2 Kinase Stress Response. <i>Molecular and Cellular Biology</i> , 2004, 24, 1365-1377.	2.3	436
28	Stress-induced gene expression requires programmed recovery from translational repression. <i>EMBO Journal</i> , 2003, 22, 1180-1187.	7.8	409
29	Endoplasmic Reticulum Stress and the Development of Diabetes. <i>Diabetes</i> , 2002, 51, S455-S461.	0.6	408
30	Dephosphorylation of Translation Initiation Factor 2 α Enhances Glucose Tolerance and Attenuates Hepatosteatosis in Mice. <i>Cell Metabolism</i> , 2008, 7, 520-532.	16.2	389
31	Activating Transcription Factor 4 Is Translationally Regulated by Hypoxic Stress. <i>Molecular and Cellular Biology</i> , 2004, 24, 7469-7482.	2.3	381
32	Translational control of hippocampal synaptic plasticity and memory by the eIF2 α kinase GCN2. <i>Nature</i> , 2005, 436, 1166-1170.	27.8	344
33	Cytoprotection by pre-emptive conditional phosphorylation of translation initiation factor 2. <i>EMBO Journal</i> , 2004, 23, 169-179.	7.8	337
34	GDF15 mediates the effects of metformin on body weight and energy balance. <i>Nature</i> , 2020, 578, 444-448.	27.8	326
35	Ubiquitin-Like Protein 5 Positively Regulates Chaperone Gene Expression in the Mitochondrial Unfolded Protein Response. <i>Genetics</i> , 2006, 174, 229-239.	2.9	319
36	GDF15 Provides an Endocrine Signal of Nutritional Stress in Mice and Humans. <i>Cell Metabolism</i> , 2019, 29, 707-718.e8.	16.2	286

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37	Inhibition of a constitutive translation initiation factor 2 $\hat{\pm}$ phosphatase, CReP, promotes survival of stressed cells. <i>Journal of Cell Biology</i> , 2003, 163, 767-775.	5.2	282
38	Perk-Dependent Translational Regulation Promotes Tumor Cell Adaptation and Angiogenesis in Response to Hypoxic Stress. <i>Molecular and Cellular Biology</i> , 2006, 26, 9517-9532.	2.3	264
39	Partial restoration of protein synthesis rates by the small molecule ISRIB prevents neurodegeneration without pancreatic toxicity. <i>Cell Death and Disease</i> , 2015, 6, e1672-e1672.	6.3	260
40	Activation of GCN2 in UV-Irradiated Cells Inhibits Translation. <i>Current Biology</i> , 2002, 12, 1279-1286.	3.9	245
41	Adaptive suppression of the ATF4 $\hat{\pm}$ CHOP branch of the unfolded protein response by toll-like receptor signalling. <i>Nature Cell Biology</i> , 2009, 11, 1473-1480.	10.3	241
42	Mammalian stress granules represent sites of accumulation of stalled translation initiation complexes. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 284, C273-C284.	4.6	235
43	Ppp1r15 gene knockout reveals an essential role for translation initiation factor 2 alpha (eIF2 $\hat{\pm}$) dephosphorylation in mammalian development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1832-1837.	7.1	230
44	Cotranslocational Degradation Protects the Stressed Endoplasmic Reticulum from Protein Overload. <i>Cell</i> , 2006, 126, 727-739.	28.9	221
45	Brain ischemia and reperfusion activates the eukaryotic initiation factor 2 $\hat{\pm}$ kinase, PERK. <i>Journal of Neurochemistry</i> , 2001, 77, 1418-1421.	3.9	209
46	ERO1- $\hat{1}$ 2, a pancreas-specific disulfide oxidase, promotes insulin biogenesis and glucose homeostasis. <i>Journal of Cell Biology</i> , 2010, 188, 821-832.	5.2	208
47	Mutations in a translation initiation factor identify the target of a memory-enhancing compound. <i>Science</i> , 2015, 348, 1027-1030.	12.6	195
48	Transmission of cell stress from endoplasmic reticulum to mitochondria. <i>Journal of Cell Biology</i> , 2002, 157, 1151-1160.	5.2	189
49	The GCN2 kinase biases feeding behavior to maintain amino acid homeostasis in omnivores. <i>Cell Metabolism</i> , 2005, 1, 273-277.	16.2	188
50	Interferon- $\hat{1}$ 3 inhibits central nervous system remyelination through a process modulated by endoplasmic reticulum stress. <i>Brain</i> , 2006, 129, 1306-1318.	7.6	185
51	Endoplasmic reticulum stress modulates the response of myelinating oligodendrocytes to the immune cytokine interferon- $\hat{1}$ 3. <i>Journal of Cell Biology</i> , 2005, 169, 603-612.	5.2	179
52	A J-Protein Co-chaperone Recruits BiP to Monomerize IRE1 and Repress the Unfolded Protein Response. <i>Cell</i> , 2017, 171, 1625-1637.e13.	28.9	176
53	Flavonol Activation Defines an Unanticipated Ligand-Binding Site in the Kinase-RNase Domain of IRE1. <i>Molecular Cell</i> , 2010, 38, 291-304.	9.7	173
54	Antiviral effect of the mammalian translation initiation factor 2 $\hat{\pm}$ kinase GCN2 against RNA viruses. <i>EMBO Journal</i> , 2006, 25, 1730-1740.	7.8	170

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55	The integrated stress response prevents demyelination by protecting oligodendrocytes against immune-mediated damage. <i>Journal of Clinical Investigation</i> , 2007, 117, 448-456.	8.2	166
56	Binding of ISRIB reveals a regulatory site in the nucleotide exchange factor eIF2B. <i>Science</i> , 2018, 359, 1533-1536.	12.6	157
57	Role for the obesity-related <i>FTO</i> gene in the cellular sensing of amino acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2557-2562.	7.1	150
58	Activation-dependent substrate recruitment by the eukaryotic translation initiation factor 2 kinase PERK. <i>Journal of Cell Biology</i> , 2006, 172, 201-209.	5.2	146
59	Defective ATG16L1-mediated removal of IRE1 α drives Crohn's disease-like ileitis. <i>Journal of Experimental Medicine</i> , 2017, 214, 401-422.	8.5	141
60	Inhibition of Nonsense-Mediated RNA Decay by the Tumor Microenvironment Promotes Tumorigenesis. <i>Molecular and Cellular Biology</i> , 2011, 31, 3670-3680.	2.3	131
61	CHOP-Dependent Stress-Inducible Expression of a Novel Form of Carbonic Anhydrase VI. <i>Molecular and Cellular Biology</i> , 1999, 19, 495-504.	2.3	130
62	Death Protein 5 and p53-Upregulated Modulator of Apoptosis Mediate the Endoplasmic Reticulum Stress-Mitochondrial Dialog Triggering Lipotoxic Rodent and Human β -Cell Apoptosis. <i>Diabetes</i> , 2012, 61, 2763-2775.	0.6	118
63	Protein-Folding Homeostasis in the Endoplasmic Reticulum and Nutritional Regulation. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a013177-a013177.	5.5	95
64	ISRIB Blunts the Integrated Stress Response by Allosterically Antagonising the Inhibitory Effect of Phosphorylated eIF2 on eIF2B. <i>Molecular Cell</i> , 2021, 81, 88-103.e6.	9.7	93
65	The ribosomal P-stalk couples amino acid starvation to GCN2 activation in mammalian cells. <i>ELife</i> , 2019, 8, .	6.0	93
66	Enhanced Integrated Stress Response Promotes Myelinating Oligodendrocyte Survival in Response to Interferon- β . <i>American Journal of Pathology</i> , 2008, 173, 1508-1517.	3.8	91
67	A Small Molecule Inhibitor of Endoplasmic Reticulum Oxidation 1 (ERO1) with Selectively Reversible Thiol Reactivity. <i>Journal of Biological Chemistry</i> , 2010, 285, 20993-21003.	3.4	91
68	Uncoupling Proteostasis and Development in Vitro with a Small Molecule Inhibitor of the Pancreatic Endoplasmic Reticulum Kinase, PERK. <i>Journal of Biological Chemistry</i> , 2012, 287, 44338-44344.	3.4	91
69	Oligodendrocyte-Specific Activation of PERK Signaling Protects Mice against Experimental Autoimmune Encephalomyelitis. <i>Journal of Neuroscience</i> , 2013, 33, 5980-5991.	3.6	91
70	Lifetime imaging of a fluorescent protein sensor reveals surprising stability of ER thiol redox. <i>Journal of Cell Biology</i> , 2013, 201, 337-349.	5.2	91
71	Amino acid limitation regulates CHOP expression through a specific pathway independent of the unfolded protein response. <i>FEBS Letters</i> , 1999, 448, 211-216.	2.8	82
72	Heightened stress response in primary fibroblasts expressing mutant eIF2B genes from CACH/VWM leukodystrophy patients. <i>Human Genetics</i> , 2005, 118, 99-106.	3.8	77

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73	A Missense Mutation in <i>PPP1R15B</i> Causes a Syndrome Including Diabetes, Short Stature, and Microcephaly. <i>Diabetes</i> , 2015, 64, 3951-3962.	0.6	71
74	G-actin provides substrate-specificity to eukaryotic initiation factor 2 β holophosphatases. <i>ELife</i> , 2015, 4, .	6.0	70
75	Intact protein folding in the glutathione-depleted endoplasmic reticulum implicates alternative protein thiol reductants. <i>ELife</i> , 2014, 3, e03421.	6.0	69
76	Bioactive small molecules reveal antagonism between the integrated stress response and sterol-regulated gene expression. <i>Cell Metabolism</i> , 2005, 2, 361-371.	16.2	66
77	Modulation of the Eukaryotic Initiation Factor 2 β -Subunit Kinase PERK by Tyrosine Phosphorylation. <i>Journal of Biological Chemistry</i> , 2008, 283, 469-475.	3.4	60
78	ER stress disrupts Ca ²⁺ -signaling complexes and Ca ²⁺ regulation in secretory and muscle cells from PERK-knockout mice. <i>Journal of Cell Science</i> , 2006, 119, 153-161.	2.0	56
79	Physiological modulation of BiP activity by trans-protomer engagement of the interdomain linker. <i>ELife</i> , 2015, 4, e08961.	6.0	55
80	An intact unfolded protein response in <i>Trpt1</i> knockout mice reveals phylogenic divergence in pathways for RNA ligation. <i>Rna</i> , 2008, 14, 225-232.	3.5	51
81	Rapid B Cell Receptor-induced Unfolded Protein Response in Nonsecretory B Cells Correlates with Pro- Versus Antiapoptotic Cell Fate. <i>Journal of Biological Chemistry</i> , 2005, 280, 39762-39771.	3.4	50
82	Skeletal muscle-specific eukaryotic translation initiation factor 2 β phosphorylation controls amino acid metabolism and fibroblast growth factor 21-mediated non-cell-autonomous energy metabolism. <i>FASEB Journal</i> , 2016, 30, 798-812.	0.5	48
83	Impaired Eukaryotic Translation Initiation Factor 2B Activity Specifically in Oligodendrocytes Reproduces the Pathology of Vanishing White Matter Disease in Mice. <i>Journal of Neuroscience</i> , 2014, 34, 12182-12191.	3.6	44
84	Translational Regulation in the Cellular Response to Biosynthetic Load on the Endoplasmic Reticulum. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2001, 66, 499-508.	1.1	42
85	PERK Activation Preserves the Viability and Function of Remyelinating Oligodendrocytes in Immune-Mediated Demyelinating Diseases. <i>American Journal of Pathology</i> , 2014, 184, 507-519.	3.8	40
86	Translation attenuation by PERK balances ER glycoprotein synthesis with lipid-linked oligosaccharide flux. <i>Journal of Cell Biology</i> , 2007, 176, 605-616.	5.2	39
87	Retarded PDI diffusion and a reductive shift in poise of the calcium depleted endoplasmic reticulum. <i>BMC Biology</i> , 2015, 13, 2.	3.8	39
88	Establishing a Flow Process to Coumarin-8-Carbaldehydes as Important Synthetic Scaffolds. <i>Chemistry - A European Journal</i> , 2012, 18, 9901-9910.	3.3	37
89	Mannose-6-phosphate regulates destruction of lipid-linked oligosaccharides. <i>Molecular Biology of the Cell</i> , 2011, 22, 2994-3009.	2.1	30
90	Novel Function of PERK as a Mediator of Force-induced Apoptosis. <i>Journal of Biological Chemistry</i> , 2008, 283, 23462-23472.	3.4	27

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91	Kinetic analysis of FTO (fat mass and obesity-associated) reveals that it is unlikely to function as a sensor for 2-oxoglutarate. <i>Biochemical Journal</i> , 2012, 444, 183-187.	3.7	27
92	Selective inhibition of the unfolded protein response: targeting catalytic sites for Schiff base modification. <i>Molecular BioSystems</i> , 2013, 9, 2408.	2.9	26
93	Paradoxical Sensitivity to an Integrated Stress Response Blocking Mutation in Vanishing White Matter Cells. <i>PLoS ONE</i> , 2016, 11, e0166278.	2.5	25
94	A deregulated integrated stress response promotes interferon α -induced medulloblastoma. <i>Journal of Neuroscience Research</i> , 2011, 89, 1586-1595.	2.9	22
95	A Method to Quantify FRET Stoichiometry with Phasor Plot Analysis and Acceptor Lifetime Ingrowth. <i>Biophysical Journal</i> , 2015, 108, 999-1002.	0.5	21
96	Cargo receptor-assisted endoplasmic reticulum export of pathogenic α 1-antitrypsin polymers. <i>Cell Reports</i> , 2021, 35, 109144.	6.4	19
97	PERK Activation Promotes Medulloblastoma Tumorigenesis by Attenuating Premalignant Granule Cell Precursor Apoptosis. <i>American Journal of Pathology</i> , 2016, 186, 1939-1951.	3.8	16
98	Dual role of the integrated stress response in medulloblastoma tumorigenesis. <i>Oncotarget</i> , 2016, 7, 64124-64135.	1.8	15
99	Arginine Deficiency Causes Runting in the Suckling Period by Selectively Activating the Stress Kinase GCN2. <i>Journal of Biological Chemistry</i> , 2011, 286, 8866-8874.	3.4	11
100	Higher-order phosphatase α substrate contacts terminate the integrated stress response. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 835-846.	8.2	11
101	ERO1 β , a pancreas-specific disulfide oxidase, promotes insulin biogenesis and glucose homeostasis. <i>Journal of Cell Biology</i> , 2010, 189, 769-769.	5.2	1
102	IRE1 couples endoplasmic reticulum load to secretory capacity by processing the XBP-1 mRNA. , 0, .		1
103	Monomeric Nuclear Receptors. , 1998, , 261-279.		1