

# Heather P Harding

## List of Publications by Year in descending order

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103  
papers

44,306  
citations

11908

72  
h-index

32181

105  
g-index

117  
all docs

117  
docs citations

117  
times ranked

38801  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	4.5	93
2	Cargo receptor-assisted endoplasmic reticulum export of pathogenic $\alpha$ 1-antitrypsin polymers. <i>Cell Reports</i> , 2021, 35, 109144.	2.9	19
3	Higher-order phosphatase <sup>o</sup> substrate contacts terminate the integrated stress response. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 835-846.	3.6	11
4	GDF15 mediates the effects of metformin on body weight and energy balance. <i>Nature</i> , 2020, 578, 444-448.	13.7	326
5	GDF15 Provides an Endocrine Signal of Nutritional Stress in Mice and Humans. <i>Cell Metabolism</i> , 2019, 29, 707-718.e8.	7.2	286
6	The ribosomal P-stalk couples amino acid starvation to GCN2 activation in mammalian cells. <i>ELife</i> , 2019, 8, .	2.8	93
7	Binding of ISRIB reveals a regulatory site in the nucleotide exchange factor eIF2B. <i>Science</i> , 2018, 359, 1533-1536.	6.0	157
8	Defective ATG16L1-mediated removal of IRE1 $\alpha$ drives Crohn's disease <sup>o</sup> like ileitis. <i>Journal of Experimental Medicine</i> , 2017, 214, 401-422.	4.2	141
9	A J-Protein Co-chaperone Recruits BiP to Monomerize IRE1 and Repress the Unfolded Protein Response. <i>Cell</i> , 2017, 171, 1625-1637.e13.	13.5	176
10	Dual role of the integrated stress response in medulloblastoma tumorigenesis. <i>Oncotarget</i> , 2016, 7, 64124-64135.	0.8	15
11	PERK Activation Promotes Medulloblastoma Tumorigenesis by Attenuating Premalignant Granule Cell Precursor Apoptosis. <i>American Journal of Pathology</i> , 2016, 186, 1939-1951.	1.9	16
12	Skeletal muscle <sup>o</sup> specific eukaryotic translation initiation factor 2 $\alpha$ phosphorylation controls amino acid metabolism and fibroblast growth factor 21 <sup>o</sup> mediated non <sup>o</sup> cell <sup>o</sup> autonomous energy metabolism. <i>FASEB Journal</i> , 2016, 30, 798-812.	0.2	48
13	Paradoxical Sensitivity to an Integrated Stress Response Blocking Mutation in Vanishing White Matter Cells. <i>PLoS ONE</i> , 2016, 11, e0166278.	1.1	25
14	Physiological modulation of BiP activity by trans-protomer engagement of the interdomain linker. <i>ELife</i> , 2015, 4, e08961.	2.8	55
15	Retarded PDI diffusion and a reductive shift in poise of the calcium depleted endoplasmic reticulum. <i>BMC Biology</i> , 2015, 13, 2.	1.7	39
16	A Missense Mutation in <i>PPP1R15B</i> Causes a Syndrome Including Diabetes, Short Stature, and Microcephaly. <i>Diabetes</i> , 2015, 64, 3951-3962.	0.3	71
17	A Method to Quantify FRET Stoichiometry with Phasor Plot Analysis and Acceptor Lifetime Ingrowth. <i>Biophysical Journal</i> , 2015, 108, 999-1002.	0.2	21
18	Mutations in a translation initiation factor identify the target of a memory-enhancing compound. <i>Science</i> , 2015, 348, 1027-1030.	6.0	195

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19	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.	2.7	260
20	G-actin provides substrate-specificity to eukaryotic initiation factor 2 $\pm$ holophosphatases. <i>ELife</i> , 2015, 4, .	2.8	70
21	Intact protein folding in the glutathione-depleted endoplasmic reticulum implicates alternative protein thiol reductants. <i>ELife</i> , 2014, 3, e03421.	2.8	69
22	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.	1.7	44
23	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.	1.9	40
24	Targeting the unfolded protein response in disease. <i>Nature Reviews Drug Discovery</i> , 2013, 12, 703-719.	21.5	765
25	Somatic <i>CALR</i> Mutations in Myeloproliferative Neoplasms with Nonmutated <i>JAK2</i> . <i>New England Journal of Medicine</i> , 2013, 369, 2391-2405.	13.9	1,556
26	Selective inhibition of the unfolded protein response: targeting catalytic sites for Schiff base modification. <i>Molecular BioSystems</i> , 2013, 9, 2408.	2.9	26
27	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.	3.3	150
28	Oligodendrocyte-Specific Activation of PERK Signaling Protects Mice against Experimental Autoimmune Encephalomyelitis. <i>Journal of Neuroscience</i> , 2013, 33, 5980-5991.	1.7	91
29	Lifetime imaging of a fluorescent protein sensor reveals surprising stability of ER thiol redox. <i>Journal of Cell Biology</i> , 2013, 201, 337-349.	2.3	91
30	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.	1.7	27
31	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.	3.3	476
32	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.	1.6	91
33	Protein-Folding Homeostasis in the Endoplasmic Reticulum and Nutritional Regulation. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012, 4, a013177-a013177.	2.3	95
34	Death Protein 5 and p53-Upregulated Modulator of Apoptosis Mediate the Endoplasmic Reticulum Stress-Mitochondrial Dialog Triggering Lipotoxic Rodent and Human $\beta$ -Cell Apoptosis. <i>Diabetes</i> , 2012, 61, 2763-2775.	0.3	118
35	Establishing a Flow Process to Coumarin-8-Carbaldehydes as Important Synthetic Scaffolds. <i>Chemistry - A European Journal</i> , 2012, 18, 9901-9910.	1.7	37
36	Selective Inhibition of a Regulatory Subunit of Protein Phosphatase 1 Restores Proteostasis. <i>Science</i> , 2011, 332, 91-94.	6.0	475

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37	A deregulated integrated stress response promotes interferon- $\beta$ -induced medulloblastoma. <i>Journal of Neuroscience Research</i> , 2011, 89, 1586-1595.	1.3	22
38	Mannose-6-phosphate regulates destruction of lipid-linked oligosaccharides. <i>Molecular Biology of the Cell</i> , 2011, 22, 2994-3009.	0.9	30
39	Inhibition of Nonsense-Mediated RNA Decay by the Tumor Microenvironment Promotes Tumorigenesis. <i>Molecular and Cellular Biology</i> , 2011, 31, 3670-3680.	1.1	131
40	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.	1.6	11
41	ERO1- $\beta$ , a pancreas-specific disulfide oxidase, promotes insulin biogenesis and glucose homeostasis. <i>Journal of Cell Biology</i> , 2010, 189, 769-769.	2.3	1
42	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.	1.6	91
43	ERO1- $\beta$ , a pancreas-specific disulfide oxidase, promotes insulin biogenesis and glucose homeostasis. <i>Journal of Cell Biology</i> , 2010, 188, 821-832.	2.3	208
44	Flavonol Activation Defines an Unanticipated Ligand-Binding Site in the Kinase-RNase Domain of IRE1. <i>Molecular Cell</i> , 2010, 38, 291-304.	4.5	173
45	Role of ERO1- $\beta$ -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.	2.3	499
46	Ppp1r15 gene knockout reveals an essential role for translation initiation factor 2 alpha (eIF2 $\beta$ ) dephosphorylation in mammalian development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1832-1837.	3.3	230
47	Adaptive suppression of the ATF4-CHOP branch of the unfolded protein response by toll-like receptor signalling. <i>Nature Cell Biology</i> , 2009, 11, 1473-1480.	4.6	241
48	An intact unfolded protein response in <i>Trpt1</i> knockout mice reveals phylogenetic divergence in pathways for RNA ligation. <i>Rna</i> , 2008, 14, 225-232.	1.6	51
49	Dephosphorylation of Translation Initiation Factor 2 $\beta$ Enhances Glucose Tolerance and Attenuates Hepatosteatosis in Mice. <i>Cell Metabolism</i> , 2008, 7, 520-532.	7.2	389
50	Enhanced Integrated Stress Response Promotes Myelinating Oligodendrocyte Survival in Response to Interferon- $\beta$ . <i>American Journal of Pathology</i> , 2008, 173, 1508-1517.	1.9	91
51	Novel Function of PERK as a Mediator of Force-induced Apoptosis. <i>Journal of Biological Chemistry</i> , 2008, 283, 23462-23472.	1.6	27
52	Modulation of the Eukaryotic Initiation Factor 2 $\beta$ -Subunit Kinase PERK by Tyrosine Phosphorylation. <i>Journal of Biological Chemistry</i> , 2008, 283, 469-475.	1.6	60
53	Translation attenuation by PERK balances ER glycoprotein synthesis with lipid-linked oligosaccharide flux. <i>Journal of Cell Biology</i> , 2007, 176, 605-616.	2.3	39
54	The integrated stress response prevents demyelination by protecting oligodendrocytes against immune-mediated damage. <i>Journal of Clinical Investigation</i> , 2007, 117, 448-456.	3.9	166

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55	Cotranslocational Degradation Protects the Stressed Endoplasmic Reticulum from Protein Overload. <i>Cell</i> , 2006, 126, 727-739.	13.5	221
56	Antiviral effect of the mammalian translation initiation factor 2 $\alpha$ kinase GCN2 against RNA viruses. <i>EMBO Journal</i> , 2006, 25, 1730-1740.	3.5	170
57	Interferon- $\beta$ inhibits central nervous system remyelination through a process modulated by endoplasmic reticulum stress. <i>Brain</i> , 2006, 129, 1306-1318.	3.7	185
58	ER stress disrupts Ca <sup>2+</sup> -signaling complexes and Ca <sup>2+</sup> regulation in secretory and muscle cells from PERK-knockout mice. <i>Journal of Cell Science</i> , 2006, 119, 153-161.	1.2	56
59	Activation-dependent substrate recruitment by the eukaryotic translation initiation factor 2 kinase PERK. <i>Journal of Cell Biology</i> , 2006, 172, 201-209.	2.3	146
60	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.	1.1	264
61	Ubiquitin-Like Protein 5 Positively Regulates Chaperone Gene Expression in the Mitochondrial Unfolded Protein Response. <i>Genetics</i> , 2006, 174, 229-239.	1.2	319
62	A Selective Inhibitor of eIF2 $\alpha$ Dephosphorylation Protects Cells from ER Stress. <i>Science</i> , 2005, 307, 935-939.	6.0	1,277
63	ER stress-regulated translation increases tolerance to extreme hypoxia and promotes tumor growth. <i>EMBO Journal</i> , 2005, 24, 3470-3481.	3.5	634
64	Translational control of hippocampal synaptic plasticity and memory by the eIF2 $\alpha$ kinase GCN2. <i>Nature</i> , 2005, 436, 1166-1170.	13.7	344
65	Heightened stress response in primary fibroblasts expressing mutant eIF2B genes from CACH/VWM leukodystrophy patients. <i>Human Genetics</i> , 2005, 118, 99-106.	1.8	77
66	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.	1.6	50
67	Endoplasmic reticulum stress modulates the response of myelinating oligodendrocytes to the immune cytokine interferon- $\beta$ . <i>Journal of Cell Biology</i> , 2005, 169, 603-612.	2.3	179
68	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.	6.6	1,077
69	The GCN2 kinase biases feeding behavior to maintain amino acid homeostasis in omnivores. <i>Cell Metabolism</i> , 2005, 1, 273-277.	7.2	188
70	Bioactive small molecules reveal antagonism between the integrated stress response and sterol-regulated gene expression. <i>Cell Metabolism</i> , 2005, 2, 361-371.	7.2	66
71	Compartment-specific perturbation of protein handling activates genes encoding mitochondrial chaperones. <i>Journal of Cell Science</i> , 2004, 117, 4055-4066.	1.2	522
72	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.	2.3	788

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73	CHOP induces death by promoting protein synthesis and oxidation in the stressed endoplasmic reticulum. <i>Genes and Development</i> , 2004, 18, 3066-3077.	2.7	1,648
74	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.	1.1	436
75	Activating Transcription Factor 4 Is Translationally Regulated by Hypoxic Stress. <i>Molecular and Cellular Biology</i> , 2004, 24, 7469-7482.	1.1	381
76	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.	1.1	566
77	Cytoprotection by pre-emptive conditional phosphorylation of translation initiation factor 2. <i>EMBO Journal</i> , 2004, 23, 169-179.	3.5	337
78	Stress-induced gene expression requires programmed recovery from translational repression. <i>EMBO Journal</i> , 2003, 22, 1180-1187.	3.5	409
79	The endoplasmic reticulum is the site of cholesterol-induced cytotoxicity in macrophages. <i>Nature Cell Biology</i> , 2003, 5, 781-792.	4.6	780
80	An Integrated Stress Response Regulates Amino Acid Metabolism and Resistance to Oxidative Stress. <i>Molecular Cell</i> , 2003, 11, 619-633.	4.5	2,791
81	Inhibition of a constitutive translation initiation factor 2 <sup>1</sup> phosphatase, CReP, promotes survival of stressed cells. <i>Journal of Cell Biology</i> , 2003, 163, 767-775.	2.3	282
82	Mammalian stress granules represent sites of accumulation of stalled translation initiation complexes. <i>American Journal of Physiology - Cell Physiology</i> , 2003, 284, C273-C284.	2.1	235
83	Transmission of cell stress from endoplasmic reticulum to mitochondria. <i>Journal of Cell Biology</i> , 2002, 157, 1151-1160.	2.3	189
84	Endoplasmic Reticulum Stress and the Development of Diabetes: A Review. <i>Diabetes</i> , 2002, 51, S455-S461.	0.3	408
85	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
86	Activation of GCN2 in UV-Irradiated Cells Inhibits Translation. <i>Current Biology</i> , 2002, 12, 1279-1286.	1.8	245
87	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
88	Endoplasmic Reticulum Stress and the Unfolded Protein Response in Cellular Models of Parkinson's Disease. <i>Journal of Neuroscience</i> , 2002, 22, 10690-10698.	1.7	515
89	Diabetes Mellitus and Exocrine Pancreatic Dysfunction in Perk <sup>Δ</sup> Mice Reveals a Role for Translational Control in Secretory Cell Survival. <i>Molecular Cell</i> , 2001, 7, 1153-1163.	4.5	1,081
90	Brain ischemia and reperfusion activates the eukaryotic initiation factor 2 <sup>1</sup> kinase, PERK. <i>Journal of Neurochemistry</i> , 2001, 77, 1418-1421.	2.1	209

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91	Feedback Inhibition of the Unfolded Protein Response by GADD34-Mediated Dephosphorylation of eIF2 $\hat{\pm}$ . Journal of Cell Biology, 2001, 153, 1011-1022.	2.3	1,187
92	Translational Regulation in the Cellular Response to Biosynthetic Load on the Endoplasmic Reticulum. Cold Spring Harbor Symposia on Quantitative Biology, 2001, 66, 499-508.	2.0	42
93	Dynamic interaction of BiP and ER stress transducers in the unfolded-protein response. Nature Cell Biology, 2000, 2, 326-332.	4.6	2,397
94	Regulated Translation Initiation Controls Stress-Induced Gene Expression in Mammalian Cells. Molecular Cell, 2000, 6, 1099-1108.	4.5	2,743
95	Perk Is Essential for Translational Regulation and Cell Survival during the Unfolded Protein Response. Molecular Cell, 2000, 5, 897-904.	4.5	1,746
96	Coupling of Stress in the ER to Activation of JNK Protein Kinases by Transmembrane Protein Kinase IRE1. Science, 2000, 287, 664-666.	6.0	2,595
97	Protein translation and folding are coupled by an endoplasmic-reticulum-resident kinase. Nature, 1999, 397, 271-274.	13.7	2,856
98	Amino acid limitation regulates CHOP expression through a specific pathway independent of the unfolded protein response. FEBS Letters, 1999, 448, 211-216.	1.3	82
99	CHOP-Dependent Stress-Inducible Expression of a Novel Form of Carbonic Anhydrase VI. Molecular and Cellular Biology, 1999, 19, 495-504.	1.1	130
100	Cloning of mammalian Ire1 reveals diversity in the ER stress responses. EMBO Journal, 1998, 17, 5708-5717.	3.5	701
101	Monomeric Nuclear Receptors. , 1998, , 261-279.		1
102	Differential Activation of Peroxisome Proliferator-activated Receptors by Eicosanoids. Journal of Biological Chemistry, 1995, 270, 23975-23983.	1.6	609
103	IRE1 couples endoplasmic reticulum load to secretory capacity by processing the XBP-1 mRNA. , 0, .		1