

David Ron

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

277
papers

70,393
citations

117
h-index

265
g-index

339
ext. papers

77,574
ext. citations

12.8
avg, IF

7.99
L-index

#	Paper	IF	Citations
277	Fluorescence Intensity-Based eIF2B β Guanine Nucleotide-Exchange Factor Activity Assay.. <i>Methods in Molecular Biology</i> , 2022 , 2428, 187-196	1.4	
276	Basic science under threat: Lessons from the Skirball Institute.. <i>Cell</i> , 2022 , 185, 755-758	56.2	
275	Higher-order phosphatase-substrate contacts terminate the integrated stress response. <i>Nature Structural and Molecular Biology</i> , 2021 , 28, 835-846	17.6	2
274	Pharmacological targeting of endoplasmic reticulum stress in disease. <i>Nature Reviews Drug Discovery</i> , 2021 ,	64.1	18
273	Cargo receptor-assisted endoplasmic reticulum export of pathogenic α -antitrypsin polymers. <i>Cell Reports</i> , 2021 , 35, 109144	10.6	5
272	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	17.6	25
271	Structures of a deAMPylation complex rationalise the switch between antagonistic catalytic activities of FICD. <i>Nature Communications</i> , 2021 , 12, 5004	17.4	0
270	Protein Folding Unfolded Protein Responses 2021 , 121-126		
269	GDF15 mediates the effects of metformin on body weight and energy balance. <i>Nature</i> , 2020 , 578, 444-448	58.4	171
268	Calcium depletion challenges endoplasmic reticulum proteostasis by destabilising BiP-substrate complexes. <i>ELife</i> , 2020 , 9,	8.9	9
267	De Novo Mutations in Affecting eIF2 Signaling Cause Neonatal/Early-Onset Diabetes and Transient Hepatic Dysfunction. <i>Diabetes</i> , 2020 , 69, 477-483	0.9	17
266	MANF antagonizes nucleotide exchange by the endoplasmic reticulum chaperone BiP. <i>Nature Communications</i> , 2019 , 10, 541	17.4	45
265	The ribosomal P-stalk couples amino acid starvation to GCN2 activation in mammalian cells. <i>ELife</i> , 2019 , 8,	8.9	46
264	Unstructured regions in IRE1 β specify BiP-mediated destabilisation of the luminal domain dimer and repression of the UPR. <i>ELife</i> , 2019 , 8,	8.9	19
263	An oligomeric state-dependent switch in the ER enzyme FICD regulates AMPylation and deAMPylation of BiP. <i>EMBO Journal</i> , 2019 , 38, e102177	13	18
262	Early Events in the Endoplasmic Reticulum Unfolded Protein Response. <i>Cold Spring Harbor Perspectives in Biology</i> , 2019 , 11,	10.2	52
261	GDF15 Provides an Endocrine Signal of Nutritional Stress in Mice and Humans. <i>Cell Metabolism</i> , 2019 , 29, 707-718.e8	24.6	153

260	A Sephin1-insensitive tripartite holophosphatase dephosphorylates translation initiation factor 2B. <i>Journal of Biological Chemistry</i> , 2018 , 293, 7766-7776	5.4	26
259	Binding of ISRIB reveals a regulatory site in the nucleotide exchange factor eIF2B. <i>Science</i> , 2018 , 359, 1533-1536	33.3	96
258	Single particle trajectories reveal active endoplasmic reticulum luminal flow. <i>Nature Cell Biology</i> , 2018 , 20, 1118-1125	23.4	45
257	Defective ATG16L1-mediated removal of IRE1 β drives Crohn's disease-like ileitis. <i>Journal of Experimental Medicine</i> , 2017 , 214, 401-422	16.6	109
256	Generic membrane-spanning features endow IRE1 β with responsiveness to membrane aberrancy. <i>Molecular Biology of the Cell</i> , 2017 , 28, 2318-2332	3.5	26
255	FICD acts bifunctionally to AMPylate and de-AMPylate the endoplasmic reticulum chaperone BiP. <i>Nature Structural and Molecular Biology</i> , 2017 , 24, 23-29	17.6	47
254	The molecular chaperones DNAJB6 and Hsp70 cooperate to suppress β -synuclein aggregation. <i>Scientific Reports</i> , 2017 , 7, 9039	4.9	40
253	The requirement of IRE1 and XBP1 in resolving physiological stress during development. <i>Journal of Cell Science</i> , 2017 , 130, 3040-3049	5.3	24
252	A J-Protein Co-chaperone Recruits BiP to Monomerize IRE1 and Repress the Unfolded Protein Response. <i>Cell</i> , 2017 , 171, 1625-1637.e13	56.2	120
251	TriPer, an optical probe tuned to the endoplasmic reticulum tracks changes in luminal HO. <i>BMC Biology</i> , 2017 , 15, 24	7.3	27
250	AMPylation targets the rate-limiting step of BiP's ATPase cycle for its functional inactivation. <i>ELife</i> , 2017 , 6,	8.9	43
249	PPP1R15A-mediated dephosphorylation of eIF2 β s unaffected by Sephin1 or Guanabenz. <i>ELife</i> , 2017 , 6,	8.9	63
248	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	0.9	30
247	Dual role of the integrated stress response in medulloblastoma tumorigenesis. <i>Oncotarget</i> , 2016 , 7, 64134-64135	3.5	35
246	PERK Activation Promotes Medulloblastoma Tumorigenesis by Attenuating Premalignant Granule Cell Precursor Apoptosis. <i>American Journal of Pathology</i> , 2016 , 186, 1939-1951	5.8	12
245	Paradoxical Sensitivity to an Integrated Stress Response Blocking Mutation in Vanishing White Matter Cells. <i>PLoS ONE</i> , 2016 , 11, e0166278	3.7	20
244	Retarded PDI diffusion and a reductive shift in poise of the calcium depleted endoplasmic reticulum. <i>BMC Biology</i> , 2015 , 13, 2	7.3	26
243	A Missense Mutation in PPP1R15B Causes a Syndrome Including Diabetes, Short Stature, and Microcephaly. <i>Diabetes</i> , 2015 , 64, 3951-62	0.9	48

242	A method to quantify FRET stoichiometry with phasor plot analysis and acceptor lifetime ingrowth. <i>Biophysical Journal</i> , 2015 , 108, 999-1002	2.9	18
241	Stress responses. Mutations in a translation initiation factor identify the target of a memory-enhancing compound. <i>Science</i> , 2015 , 348, 1027-30	33.3	152
240	ERO1-independent production of H ₂ O ₂ within the endoplasmic reticulum fuels Prdx4-mediated oxidative protein folding. <i>Journal of Cell Biology</i> , 2015 , 211, 253-9	7.3	38
239	ALS/FTD Mutation-Induced Phase Transition of FUS Liquid Droplets and Reversible Hydrogels into Irreversible Hydrogels Impairs RNP Granule Function. <i>Neuron</i> , 2015 , 88, 678-90	13.9	503
238	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	9.8	184
237	Modulation of Innate Immune Signalling by Lipid-Mediated MAVS Transmembrane Domain Oligomerization. <i>PLoS ONE</i> , 2015 , 10, e0136883	3.7	6
236	Physiological modulation of BiP activity by trans-protomer engagement of the interdomain linker. <i>ELife</i> , 2015 , 4, e08961	8.9	40
235	AMPylation matches BiP activity to client protein load in the endoplasmic reticulum. <i>ELife</i> , 2015 , 4, e126819	6.7	67
234	Lipid-dependent regulation of the unfolded protein response. <i>Current Opinion in Cell Biology</i> , 2015 , 33, 67-73	9	155
233	G-actin provides substrate-specificity to eukaryotic initiation factor 2B holophosphatases. <i>ELife</i> , 2015 , 4,	8.9	47
232	Actin dynamics tune the integrated stress response by regulating eukaryotic initiation factor 2B dephosphorylation. <i>ELife</i> , 2015 , 4,	8.9	49
231	Vaccine activation of the nutrient sensor GCN2 in dendritic cells enhances antigen presentation. <i>Science</i> , 2014 , 343, 313-317	33.3	154
230	Polynomial algebra reveals diverging roles of the unfolded protein response in endothelial cells during ischemia-reperfusion injury. <i>FEBS Letters</i> , 2014 , 588, 3062-7	3.8	2
229	PERK activation preserves the viability and function of remyelinating oligodendrocytes in immune-mediated demyelinating diseases. <i>American Journal of Pathology</i> , 2014 , 184, 507-19	5.8	34
228	Intact protein folding in the glutathione-depleted endoplasmic reticulum implicates alternative protein thiol reductants. <i>ELife</i> , 2014 , 3, e03421	8.9	51
227	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, 12182-91	6.6	33
226	ADP ribosylation adapts an ER chaperone response to short-term fluctuations in unfolded protein load. <i>Journal of Cell Biology</i> , 2014 , 207, 569-569	7.3	78
225	GCN2-dependent metabolic stress is essential for endotoxemic cytokine induction and pathology. <i>Molecular and Cellular Biology</i> , 2014 , 34, 428-38	4.8	51

224	Hypothalamic eIF2 β signaling regulates food intake. <i>Cell Reports</i> , 2014 , 6, 438-44	10.6	39
223	Somatic CALR mutations in myeloproliferative neoplasms with nonmutated JAK2. <i>New England Journal of Medicine</i> , 2013 , 369, 2391-2405	59.2	1262
222	Selective inhibition of the unfolded protein response: targeting catalytic sites for Schiff base modification. <i>Molecular BioSystems</i> , 2013 , 9, 2408-16		24
221	Xbp1-independent Ire1 signaling is required for photoreceptor differentiation and rhabdomere morphogenesis in <i>Drosophila</i> . <i>Cell Reports</i> , 2013 , 5, 791-801	10.6	55
220	Role for the obesity-related FTO 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, 2557-62	11.5	129
219	The ER stress transducer IRE1 α is required for airway epithelial mucin production. <i>Mucosal Immunology</i> , 2013 , 6, 639-54	9.2	123
218	The unfolded protein response element IRE1 α senses bacterial proteins invading the ER to activate RIG-I and innate immune signaling. <i>Cell Host and Microbe</i> , 2013 , 13, 558-569	23.4	92
217	Membrane lipid saturation activates endoplasmic reticulum unfolded protein response transducers through their transmembrane domains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 4628-33	11.5	389
216	Resetting translational homeostasis restores myelination in Charcot-Marie-Tooth disease type 1B mice. <i>Journal of Experimental Medicine</i> , 2013 , 210, 821-38	16.6	93
215	Oligodendrocyte-specific activation of PERK signaling protects mice against experimental autoimmune encephalomyelitis. <i>Journal of Neuroscience</i> , 2013 , 33, 5980-91	6.6	77
214	Lifetime imaging of a fluorescent protein sensor reveals surprising stability of ER thiol redox. <i>Journal of Cell Biology</i> , 2013 , 201, 337-49	7.3	75
213	Ero1 α and PDIs constitute a hierarchical electron transfer network of endoplasmic reticulum oxidoreductases. <i>Journal of Cell Biology</i> , 2013 , 202, 861-74	7.3	93
212	Negative feedback by IRE1 α optimizes mucin production in goblet cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 2864-9	11.5	107
211	The antipsychotic olanzapine induces apoptosis in insulin-secreting pancreatic β cells by blocking PERK-mediated translational attenuation. <i>Cell Structure and Function</i> , 2013 , 38, 183-95	2.2	24
210	The endoplasmic reticulum unfolded protein response and neurodegeneration. <i>Research and Perspectives in Alzheimer's Disease</i> , 2013 , 19-35		1
209	Unfolded Protein Responses 2013 , 488-493		
208	Resetting translational homeostasis restores myelination in Charcot-Marie-Tooth disease type 1B mice. <i>Journal of Cell Biology</i> , 2013 , 201, i3-i3	7.3	
207	The amino acid sensor GCN2 biases macronutrient selection during aging. <i>European Journal of Nutrition</i> , 2012 , 51, 119-26	5.2	9

206	Protein-folding homeostasis in the endoplasmic reticulum and nutritional regulation. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012 , 4,	10.2	75
205	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, 2763-75	0.9	100
204	Endoplasmic reticulum thiol oxidase deficiency leads to ascorbic acid depletion and noncanonical scurvy in mice. <i>Molecular Cell</i> , 2012 , 48, 39-51	17.6	79
203	New insights into translational regulation in the endoplasmic reticulum unfolded protein response. <i>Cold Spring Harbor Perspectives in Biology</i> , 2012 , 4,	10.2	103
202	Establishing a flow process to coumarin-8-carbaldehydes as important synthetic scaffolds. <i>Chemistry - A European Journal</i> , 2012 , 18, 9901-10	4.8	33
201	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	11.5	360
200	ADP ribosylation adapts an ER chaperone response to short-term fluctuations in unfolded protein load. <i>Journal of Cell Biology</i> , 2012 , 198, 371-85	7.3	76
199	Increased intestinal lipid absorption caused by Ire1 β deficiency contributes to hyperlipidemia and atherosclerosis in apolipoprotein E-deficient mice. <i>Circulation Research</i> , 2012 , 110, 1575-84	15.7	16
198	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, 44338-44	5.4	82
197	Expression profiling and biochemical analysis suggest stress response as a potential mechanism inhibiting proliferation of polyamine-depleted cells. <i>Journal of Biological Chemistry</i> , 2012 , 287, 35825-37	5.4	31
196	New twists in the unfolded protein response. <i>ELife</i> , 2012 , 1, e00243	8.9	3
195	Cell biology. A translational pause to localize. <i>Science</i> , 2011 , 331, 543-4	33.3	2
194	Selective inhibition of a regulatory subunit of protein phosphatase 1 restores proteostasis. <i>Science</i> , 2011 , 332, 91-4	33.3	384
193	Integrating the mechanisms of apoptosis induced by endoplasmic reticulum stress. <i>Nature Cell Biology</i> , 2011 , 13, 184-90	23.4	1762
192	The unfolded protein response: from stress pathway to homeostatic regulation. <i>Science</i> , 2011 , 334, 1081-5	15.3	3664
191	The structure of the PERK kinase domain suggests the mechanism for its activation. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2011 , 67, 423-8		86
190	A deregulated integrated stress response promotes interferon- β -induced medulloblastoma. <i>Journal of Neuroscience Research</i> , 2011 , 89, 1586-95	4.4	20
189	The sarcoplasmic reticulum luminal thiol oxidase ERO1 regulates cardiomyocyte excitation-coupled calcium release and response to hemodynamic load. <i>FASEB Journal</i> , 2011 , 25, 2583-91	0.9	40

188	Mannose-6-phosphate regulates destruction of lipid-linked oligosaccharides. <i>Molecular Biology of the Cell</i> , 2011 , 22, 2994-3009	3.5	26
187	Complementary cell-based high-throughput screens identify novel modulators of the unfolded protein response. <i>Journal of Biomolecular Screening</i> , 2011 , 16, 825-35		40
186	Inhibition of nonsense-mediated RNA decay by the tumor microenvironment promotes tumorigenesis. <i>Molecular and Cellular Biology</i> , 2011 , 31, 3670-80	4.8	107
185	Arginine deficiency causes runting in the suckling period by selectively activating the stress kinase GCN2. <i>Journal of Biological Chemistry</i> , 2011 , 286, 8866-74	5.4	10
184	Influence of the hepatic eukaryotic initiation factor 2alpha (eIF2alpha) endoplasmic reticulum (ER) stress response pathway on insulin-mediated ER stress and hepatic and peripheral glucose metabolism. <i>Journal of Biological Chemistry</i> , 2011 , 286, 36163-70	5.4	53
183	Structural determinants of PERK inhibitor potency and selectivity. <i>Chemical Biology and Drug Design</i> , 2010 , 76, 480-95	2.9	31
182	Disulphide production by Ero1-PDI relay is rapid and effectively regulated. <i>EMBO Journal</i> , 2010 , 29, 3318-29	13	112
181	The GCN2-ATF4 pathway is critical for tumour cell survival and proliferation in response to nutrient deprivation. <i>EMBO Journal</i> , 2010 , 29, 2082-96	13	419
180	The endoplasmic reticulum stress response in the pancreatic β cell. <i>Diabetes, Obesity and Metabolism</i> , 2010 , 12 Suppl 2, 48-57	6.7	75
179	Transcriptional regulation of VEGF-A by the unfolded protein response pathway. <i>PLoS ONE</i> , 2010 , 5, e9575	3.7	180
178	The mitochondrial UPR - protecting organelle protein homeostasis. <i>Journal of Cell Science</i> , 2010 , 123, 3849-55	5.3	368
177	A small molecule inhibitor of endoplasmic reticulum oxidation 1 (ERO1) with selectively reversible thiol reactivity. <i>Journal of Biological Chemistry</i> , 2010 , 285, 20993-1003	5.4	70
176	ERO1-beta, a pancreas-specific disulfide oxidase, promotes insulin biogenesis and glucose homeostasis. <i>Journal of Cell Biology</i> , 2010 , 188, 821-32	7.3	168
175	The unfolded protein response in lung disease. <i>Proceedings of the American Thoracic Society</i> , 2010 , 7, 356-62		32
174	Alteration of the unfolded protein response modifies neurodegeneration in a mouse model of Marinesco-Sjögren syndrome. <i>Human Molecular Genetics</i> , 2010 , 19, 25-35	5.6	78
173	The matrix peptide exporter HAF-1 signals a mitochondrial UPR by activating the transcription factor ZC376.7 in <i>C. elegans</i> . <i>Molecular Cell</i> , 2010 , 37, 529-40	17.6	357
172	Flavonol activation defines an unanticipated ligand-binding site in the kinase-RNase domain of IRE1. <i>Molecular Cell</i> , 2010 , 38, 291-304	17.6	146
171	Oxidative protein folding by an endoplasmic reticulum-localized peroxiredoxin. <i>Molecular Cell</i> , 2010 , 40, 787-97	17.6	224

170	CHOP-independent apoptosis and pathway-selective induction of the UPR in developing plasma cells. <i>Molecular Immunology</i> , 2010 , 47, 1356-65	4.3	51
169	Crystal structure of P58(IPK) TPR fragment reveals the mechanism for its molecular chaperone activity in UPR. <i>Journal of Molecular Biology</i> , 2010 , 397, 1307-15	6.5	19
168	SnapShot: The unfolded protein response. <i>Cell</i> , 2010 , 140, 590-590.e2	56.2	39
167	ERAD inhibitors integrate ER stress with an epigenetic mechanism to activate BH3-only protein NOXA in cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 2200-5	11.5	257
166	Thioredoxin-related Protein 32 is an arsenite-regulated Thiol Reductase of the proteasome 19 S particle. <i>Journal of Biological Chemistry</i> , 2009 , 284, 15233-45	5.4	31
165	Role of ERO1-alpha-mediated stimulation of inositol 1,4,5-triphosphate receptor activity in endoplasmic reticulum stress-induced apoptosis. <i>Journal of Cell Biology</i> , 2009 , 186, 783-92	7.3	424
164	Ppp1r15 gene knockout reveals an essential role for translation initiation factor 2 alpha (eIF2alpha) dephosphorylation in mammalian development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 1832-7	11.5	181
163	Infectious tolerance via the consumption of essential amino acids and mTOR signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 12055-60	11.5	254
162	Adaptive suppression of the ATF4-CHOP branch of the unfolded protein response by toll-like receptor signalling. <i>Nature Cell Biology</i> , 2009 , 11, 1473-80	23.4	220
161	Reduced apoptosis and plaque necrosis in advanced atherosclerotic lesions of Apoe ^{-/-} and Ldlr ^{-/-} mice lacking CHOP. <i>Cell Metabolism</i> , 2009 , 9, 474-81	24.6	272
160	Targeting of mRNAs to their sites of unconventional splicing in the unfolded protein response. <i>Molecular Cell</i> , 2009 , 34, 133-4	17.6	5
159	Divergent effects of PERK and IRE1 signaling on cell viability. <i>PLoS ONE</i> , 2009 , 4, e4170	3.7	230
158	Regulated association of misfolded endoplasmic reticulum luminal proteins with P58/DNAJc3. <i>EMBO Journal</i> , 2008 , 27, 2862-72	13	110
157	Ablation of the UPR-mediator CHOP restores motor function and reduces demyelination in Charcot-Marie-Tooth 1B mice. <i>Neuron</i> , 2008 , 57, 393-405	13.9	209
156	How IRE1 reacts to ER stress. <i>Cell</i> , 2008 , 132, 24-6	56.2	175
155	IRE1beta inhibits chylomicron production by selectively degrading MTP mRNA. <i>Cell Metabolism</i> , 2008 , 7, 445-55	24.6	112
154	Dephosphorylation of translation initiation factor 2alpha enhances glucose tolerance and attenuates hepatosteatosis in mice. <i>Cell Metabolism</i> , 2008 , 7, 520-32	24.6	329
153	Preliminary X-ray crystallographic studies of mouse UPR responsive protein P58(IPK) TPR fragment. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008 , 64, 108-10		6

152	Enhanced integrated stress response promotes myelinating oligodendrocyte survival in response to interferon-gamma. <i>American Journal of Pathology</i> , 2008 , 173, 1508-17	5.8	78
151	Novel function of PERK as a mediator of force-induced apoptosis. <i>Journal of Biological Chemistry</i> , 2008 , 283, 23462-72	5.4	24
150	Proteasomal adaptation to environmental stress links resistance to proteotoxicity with longevity in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 7094-9	11.5	86
149	Modulation of the eukaryotic initiation factor 2 alpha-subunit kinase PERK by tyrosine phosphorylation. <i>Journal of Biological Chemistry</i> , 2008 , 283, 469-475	5.4	58
148	An intact unfolded protein response in Trpt1 knockout mice reveals phylogenetic divergence in pathways for RNA ligation. <i>Rna</i> , 2008 , 14, 225-32	5.8	41
147	Chop deletion reduces oxidative stress, improves beta cell function, and promotes cell survival in multiple mouse models of diabetes. <i>Journal of Clinical Investigation</i> , 2008 , 118, 3378-89	15.9	514
146	Signal integration in the endoplasmic reticulum unfolded protein response. <i>Nature Reviews Molecular Cell Biology</i> , 2007 , 8, 519-29	48.7	4695
145	Translation attenuation by PERK balances ER glycoprotein synthesis with lipid-linked oligosaccharide flux. <i>Journal of Cell Biology</i> , 2007 , 176, 605-16	7.3	35
144	ClpP mediates activation of a mitochondrial unfolded protein response in <i>C. elegans</i> . <i>Developmental Cell</i> , 2007 , 13, 467-80	10.2	390
143	Linking of autophagy to ubiquitin-proteasome system is important for the regulation of endoplasmic reticulum stress and cell viability. <i>American Journal of Pathology</i> , 2007 , 171, 513-24	5.8	561
142	The integrated stress response prevents demyelination by protecting oligodendrocytes against immune-mediated damage. <i>Journal of Clinical Investigation</i> , 2007 , 117, 448-56	15.9	145
141	C/EBP homologous protein is necessary for normal osteoblastic function. <i>Journal of Cellular Biochemistry</i> , 2006 , 97, 633-40	4.7	35
140	Interferon-gamma inhibits central nervous system remyelination through a process modulated by endoplasmic reticulum stress. <i>Brain</i> , 2006 , 129, 1306-18	11.2	166
139	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, 153-61	5.3	51
138	Activation-dependent substrate recruitment by the eukaryotic translation initiation factor 2 kinase PERK. <i>Journal of Cell Biology</i> , 2006 , 172, 201-9	7.3	121
137	Cell biology. Stressed cells cope with protein overload. <i>Science</i> , 2006 , 313, 52-3	33.3	16
136	Perk-dependent translational regulation promotes tumor cell adaptation and angiogenesis in response to hypoxic stress. <i>Molecular and Cellular Biology</i> , 2006 , 26, 9517-32	4.8	242
135	Ubiquitin-like protein 5 positively regulates chaperone gene expression in the mitochondrial unfolded protein response. <i>Genetics</i> , 2006 , 174, 229-39	4	248

134	Oligodendrocytes are a major target of the toxicity of spongigenic murine retroviruses. <i>American Journal of Pathology</i> , 2006 , 169, 1026-38	5.8	19
133	Targeting translation in hypoxic tumors. <i>ACS Chemical Biology</i> , 2006 , 1, 145-8	4.9	4
132	Cotranslocational degradation protects the stressed endoplasmic reticulum from protein overload. <i>Cell</i> , 2006 , 126, 727-39	56.2	202
131	ATF4 mediation of NF1 functions in osteoblast reveals a nutritional basis for congenital skeletal dysplasias. <i>Cell Metabolism</i> , 2006 , 4, 441-51	24.6	171
130	Endoplasmic reticulum stress signaling in disease. <i>Physiological Reviews</i> , 2006 , 86, 1133-49	47.9	750
129	An arsenite-inducible 19S regulatory particle-associated protein adapts proteasomes to proteotoxicity. <i>Molecular Cell</i> , 2006 , 23, 875-85	17.6	91
128	Antiviral effect of the mammalian translation initiation factor 2alpha kinase GCN2 against RNA viruses. <i>EMBO Journal</i> , 2006 , 25, 1730-40	13	142
127	GCN2 kinase in T cells mediates proliferative arrest and energy induction in response to indoleamine 2,3-dioxygenase. <i>Immunity</i> , 2005 , 22, 633-42	32.3	869
126	The GCN2 kinase biases feeding behavior to maintain amino acid homeostasis in omnivores. <i>Cell Metabolism</i> , 2005 , 1, 273-7	24.6	164
125	Bioactive small molecules reveal antagonism between the integrated stress response and sterol-regulated gene expression. <i>Cell Metabolism</i> , 2005 , 2, 361-71	24.6	62
124	A selective inhibitor of eIF2alpha dephosphorylation protects cells from ER stress. <i>Science</i> , 2005 , 307, 935-9	33.3	1136
123	CHOP/GADD153 is a mediator of apoptotic death in substantia nigra dopamine neurons in an in vivo neurotoxin model of parkinsonism. <i>Journal of Neurochemistry</i> , 2005 , 95, 974-86	6	237
122	ER stress-regulated translation increases tolerance to extreme hypoxia and promotes tumor growth. <i>EMBO Journal</i> , 2005 , 24, 3470-81	13	563
121	Translational control of hippocampal synaptic plasticity and memory by the eIF2alpha kinase GCN2. <i>Nature</i> , 2005 , 436, 1166-73	50.4	302
120	The dynamic ER: experimental approaches and current questions. <i>Current Opinion in Cell Biology</i> , 2005 , 17, 409-14	9	85
119	Heightened stress response in primary fibroblasts expressing mutant eIF2B genes from CACH/VWM leukodystrophy patients. <i>Human Genetics</i> , 2005 , 118, 99-106	6.3	69
118	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, 39762-71	5.4	45
117	Endoplasmic reticulum stress modulates the response of myelinating oligodendrocytes to the immune cytokine interferon-gamma. <i>Journal of Cell Biology</i> , 2005 , 169, 603-12	7.3	158

116	Compartment-specific perturbation of protein handling activates genes encoding mitochondrial chaperones. <i>Journal of Cell Science</i> , 2004 , 117, 4055-66	5.3	408
115	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	7.3	652
114	CHOP induces death by promoting protein synthesis and oxidation in the stressed endoplasmic reticulum. <i>Genes and Development</i> , 2004 , 18, 3066-77	12.6	1396
113	Activating transcription factor 3 is integral to the eukaryotic initiation factor 2 kinase stress response. <i>Molecular and Cellular Biology</i> , 2004 , 24, 1365-77	4.8	373
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4	IRE1 couples endoplasmic reticulum load to secretory capacity by processing the XBP-1 mRNA		1
3	FICD acts bi-functionally to AMPylate and de-AMPylate the endoplasmic reticulum chaperone BiP		1
2	GDF15 and the beneficial actions of metformin in pre-diabetes		2
1	Higher order phosphatase-substrate contacts terminate the Integrated Stress Response		1