David Ron

List of Publications by Citations

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	Signal integration in the endoplasmic reticulum unfolded protein response. *Nature Reviews Molecular Cell Biology*, **2007**, 8, 519-29	48.7	4695
276	The unfolded protein response: from stress pathway to homeostatic regulation. *Science*, **2011**, 334, 1081-6	33.3	3664
275	Protein translation and folding are coupled by an endoplasmic-reticulum-resident kinase. *Nature*, **1999**, 397, 271-4	50.4	2474
274	Regulated translation initiation controls stress-induced gene expression in mammalian cells. *Molecular Cell*, **2000**, 6, 1099-108	17.6	2372
273	An integrated stress response regulates amino acid metabolism and resistance to oxidative stress. *Molecular Cell*, **2003**, 11, 619-33	17.6	2308
272	Coupling of stress in the ER to activation of JNK protein kinases by transmembrane protein kinase IRE1. *Science*, **2000**, 287, 664-6	33.3	2272
271	IRE1 couples endoplasmic reticulum load to secretory capacity by processing the XBP-1 mRNA. *Nature*, **2002**, 415, 92-6	50.4	2111
270	Dynamic interaction of BiP and ER stress transducers in the unfolded-protein response. *Nature Cell Biology*, **2000**, 2, 326-32	23.4	2017
269	Integrating the mechanisms of apoptosis induced by endoplasmic reticulum stress. *Nature Cell Biology*, **2011**, 13, 184-90	23.4	1762
268	CHOP is implicated in programmed cell death in response to impaired function of the endoplasmic reticulum. *Genes and Development*, **1998**, 12, 982-95	12.6	1557
267	Perk is essential for translational regulation and cell survival during the unfolded protein response. *Molecular Cell*, **2000**, 5, 897-904	17.6	1544
266	CHOP induces death by promoting protein synthesis and oxidation in the stressed endoplasmic reticulum. *Genes and Development*, **2004**, 18, 3066-77	12.6	1396
265	Somatic CALR mutations in myeloproliferative neoplasms with nonmutated JAK2. *New England Journal of Medicine*, **2013**, 369, 2391-2405	59.2	1262
264	A selective inhibitor of eIF2alpha dephosphorylation protects cells from ER stress. *Science*, **2005**, 307, 935-9	33.3	1136
263	Feedback inhibition of the unfolded protein response by GADD34-mediated dephosphorylation of eIF2alpha. *Journal of Cell Biology*, **2001**, 153, 1011-22	7.3	1016
262	Diabetes mellitus and exocrine pancreatic dysfunction in perk-/- mice reveals a role for translational control in secretory cell survival. *Molecular Cell*, **2001**, 7, 1153-63	17.6	978
261	CHOP, a novel developmentally regulated nuclear protein that dimerizes with transcription factors C/EBP and LAP and functions as a dominant-negative inhibitor of gene transcription. *Genes and Development*, **1992**, 6, 439-53	12.6	939

260	GCN2 kinase in T cells mediates proliferative arrest and anergy induction in response to indoleamine 2,3-dioxygenase. *Immunity*, **2005**, 22, 633-42	32.3	869
259	A membrane protein complex mediates retro-translocation from the ER lumen into the cytosol. *Nature*, **2004**, 429, 841-7	50.4	782
258	Transcriptional and translational control in the Mammalian unfolded protein response. *Annual Review of Cell and Developmental Biology*, **2002**, 18, 575-99	12.6	772
257	Stress-induced phosphorylation and activation of the transcription factor CHOP (GADD153) by p38 MAP Kinase. *Science*, **1996**, 272, 1347-9	33.3	758
256	Fusion of CHOP to a novel RNA-binding protein in human myxoid liposarcoma. *Nature*, **1993**, 363, 640-4	50.4	758
255	Endoplasmic reticulum stress signaling in disease. *Physiological Reviews*, **2006**, 86, 1133-49	47.9	750
254	The endoplasmic reticulum is the site of cholesterol-induced cytotoxicity in macrophages. *Nature Cell Biology*, **2003**, 5, 781-92	23.4	704
253	Translation reinitiation at alternative open reading frames regulates gene expression in an integrated stress response. *Journal of Cell Biology*, **2004**, 167, 27-33	7.3	652
252	Cloning of mammalian Ire1 reveals diversity in the ER stress responses. *EMBO Journal*, **1998**, 17, 5708-17	13	626
251	Signals from the stressed endoplasmic reticulum induce C/EBP-homologous protein (CHOP/GADD153). *Molecular and Cellular Biology*, **1996**, 16, 4273-80	4.8	587
250	Translational control in the endoplasmic reticulum stress response. *Journal of Clinical Investigation*, **2002**, 110, 1383-1388	15.9	580
249	ER stress-regulated translation increases tolerance to extreme hypoxia and promotes tumor growth. *EMBO Journal*, **2005**, 24, 3470-81	13	563
248	Linking of autophagy to ubiquitin-proteasome system is important for the regulation of endoplasmic reticulum stress and cell viability. *American Journal of Pathology*, **2007**, 171, 513-24	5.8	561
247	Chop deletion reduces oxidative stress, improves beta cell function, and promotes cell survival in multiple mouse models of diabetes. *Journal of Clinical Investigation*, **2008**, 118, 3378-89	15.9	514
246	ALS/FTD Mutation-Induced Phase Transition of FUS Liquid Droplets and Reversible Hydrogels into Irreversible Hydrogels Impairs RNP Granule Function. *Neuron*, **2015**, 88, 678-90	13.9	503
245	Translational repression mediates activation of nuclear factor kappa B by phosphorylated translation initiation factor 2. *Molecular and Cellular Biology*, **2004**, 24, 10161-8	4.8	496
244	Endoplasmic reticulum stress and the unfolded protein response in cellular models of Parkinson's disease. *Journal of Neuroscience*, **2002**, 22, 10690-8	6.6	457
243	The gadd and MyD genes define a novel set of mammalian genes encoding acidic proteins that synergistically suppress cell growth. *Molecular and Cellular Biology*, **1994**, 14, 2361-71	4.8	436

242	Role of ERO1-alpha-mediated stimulation of inositol 1,4,5-triphosphate receptor activity in endoplasmic reticulum stress-induced apoptosis. *Journal of Cell Biology*, **2009**, 186, 783-92	7.3	424
241	The GCN2-ATF4 pathway is critical for tumour cell survival and proliferation in response to nutrient deprivation. *EMBO Journal*, **2010**, 29, 2082-96	13	419
240	Compartment-specific perturbation of protein handling activates genes encoding mitochondrial chaperones. *Journal of Cell Science*, **2004**, 117, 4055-66	5.3	408
239	ClpP mediates activation of a mitochondrial unfolded protein response in C. elegans. *Developmental Cell*, **2007**, 13, 467-80	10.2	390
238	Membrane lipid saturation activates endoplasmic reticulum unfolded protein response transducers through their transmembrane domains. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 4628-33	11.5	389
237	Selective inhibition of a regulatory subunit of protein phosphatase 1 restores proteostasis. *Science*, **2011**, 332, 91-4	33.3	384
236	Activating transcription factor 3 is integral to the eukaryotic initiation factor 2 kinase stress response. *Molecular and Cellular Biology*, **2004**, 24, 1365-77	4.8	373
235	The mitochondrial UPR - protecting organelle protein homeostasis. *Journal of Cell Science*, **2010**, 123, 3849-55	5.3	368
234	Endoplasmic reticulum stress and the development of diabetes: a review. *Diabetes*, **2002**, 51 Suppl 3, S455-61	0.9	362
233	The molecular basis for selective inhibition of unconventional mRNA splicing by an IRE1-binding small molecule. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, E869-78	11.5	360
232	The matrix peptide exporter HAF-1 signals a mitochondrial UPR by activating the transcription factor ZC376.7 in C. elegans. *Molecular Cell*, **2010**, 37, 529-40	17.6	357
231	Stress-induced gene expression requires programmed recovery from translational repression. *EMBO Journal*, **2003**, 22, 1180-7	13	341
230	Activating transcription factor 4 is translationally regulated by hypoxic stress. *Molecular and Cellular Biology*, **2004**, 24, 7469-82	4.8	335
229	Dephosphorylation of translation initiation factor 2alpha enhances glucose tolerance and attenuates hepatosteatosis in mice. *Cell Metabolism*, **2008**, 7, 520-32	24.6	329
228	Increased sensitivity to dextran sodium sulfate colitis in IRE1beta-deficient mice. *Journal of Clinical Investigation*, **2001**, 107, 585-93	15.9	311
227	Control of PERK eIF2alpha kinase activity by the endoplasmic reticulum stress-induced molecular chaperone P58IPK. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 15920-5	11.5	305
226	Translational control in the endoplasmic reticulum stress response. *Journal of Clinical Investigation*, **2002**, 110, 1383-8	15.9	305
225	Cytoprotection by pre-emptive conditional phosphorylation of translation initiation factor 2. *EMBO Journal*, **2004**, 23, 169-79	13	304

224	Translational control of hippocampal synaptic plasticity and memory by the eIF2alpha kinase GCN2. *Nature*, **2005**, 436, 1166-73	50.4	302
223	Reduced apoptosis and plaque necrosis in advanced atherosclerotic lesions of Apoe-/- and Ldlr-/- mice lacking CHOP. *Cell Metabolism*, **2009**, 9, 474-81	24.6	272
222	CHOP (GADD153) and its oncogenic variant, TLS-CHOP, have opposing effects on the induction of G1/S arrest. *Genes and Development*, **1994**, 8, 453-64	12.6	267
221	C2 region-derived peptides inhibit translocation and function of beta protein kinase C in vivo. *Journal of Biological Chemistry*, **1995**, 270, 24180-7	5.4	262
220	ERAD inhibitors integrate ER stress with an epigenetic mechanism to activate BH3-only protein NOXA in cancer cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 2200-5	11.5	257
219	Role for activating transcription factor 3 in stress-induced beta-cell apoptosis. *Molecular and Cellular Biology*, **2004**, 24, 5721-32	4.8	255
218	Rearrangement of the transcription factor gene CHOP in myxoid liposarcomas with t(12;16)(q13;p11). *Genes Chromosomes and Cancer*, **1992**, 5, 278-85	5	255
217	Infectious tolerance via the consumption of essential amino acids and mTOR signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 12055-60	11.5	254
216	Stress-induced binding of the transcriptional factor CHOP to a novel DNA control element. *Molecular and Cellular Biology*, **1996**, 16, 1479-89	4.8	254
215	Identification of novel stress-induced genes downstream of chop. *EMBO Journal*, **1998**, 17, 3619-30	13	253
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212	Perk-dependent translational regulation promotes tumor cell adaptation and angiogenesis in response to hypoxic stress. *Molecular and Cellular Biology*, **2006**, 26, 9517-32	4.8	242
211	Inhibition of a constitutive translation initiation factor 2alpha phosphatase, CReP, promotes survival of stressed cells. *Journal of Cell Biology*, **2003**, 163, 767-75	7.3	237
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209	Divergent effects of PERK and IRE1 signaling on cell viability. *PLoS ONE*, **2009**, 4, e4170	3.7	230
208	A novel effector domain from the RNA-binding protein TLS or EWS is required for oncogenic transformation by CHOP. *Genes and Development*, **1994**, 8, 2513-26	12.6	225
207	Oxidative protein folding by an endoplasmic reticulum-localized peroxiredoxin. *Molecular Cell*, **2010**, 40, 787-97	17.6	224

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205	Adaptive suppression of the ATF4-CHOP branch of the unfolded protein response by toll-like receptor signalling. *Nature Cell Biology*, **2009**, 11, 1473-80	23.4	220
204	Ablation of the UPR-mediator CHOP restores motor function and reduces demyelination in Charcot-Marie-Tooth 1B mice. *Neuron*, **2008**, 57, 393-405	13.9	209
203	Activation of GCN2 in UV-irradiated cells inhibits translation. *Current Biology*, **2002**, 12, 1279-86	6.3	209
202	Cotranslocational degradation protects the stressed endoplasmic reticulum from protein overload. *Cell*, **2006**, 126, 727-39	56.2	202
201	Mammalian stress granules represent sites of accumulation of stalled translation initiation complexes. *American Journal of Physiology - Cell Physiology*, **2003**, 284, C273-84	5.4	201
200	Heat shock protein 90 modulates the unfolded protein response by stabilizing IRE1alpha. *Molecular and Cellular Biology*, **2002**, 22, 8506-13	4.8	192
199	Brain ischemia and reperfusion activates the eukaryotic initiation factor 2alpha kinase, PERK. *Journal of Neurochemistry*, **2001**, 77, 1418-21	6	191
198	IRE1 and efferent signaling from the endoplasmic reticulum. *Journal of Cell Science*, **2000**, 113, 3697-3702	5.3	188
197	Partial restoration of protein synthesis rates by the small molecule ISRIB prevents neurodegeneration without pancreatic toxicity. *Cell Death and Disease*, **2015**, 6, e1672	9.8	184
196	An autoregulatory region in protein kinase C: the pseudoanchoring site. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 492-6	11.5	182
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194	Transcriptional regulation of VEGF-A by the unfolded protein response pathway. *PLoS ONE*, **2010**, 5, e9575	3.7	180
193	How IRE1 reacts to ER stress. *Cell*, **2008**, 132, 24-6	56.2	175
192	Male sterility and enhanced radiation sensitivity in TLS(-/-) mice. *EMBO Journal*, **2000**, 19, 453-62	13	173
191	GDF15 mediates the effects of metformin on body weight and energy balance. *Nature*, **2020**, 578, 444-448	50.4	171
190	ATF4 mediation of NF1 functions in osteoblast reveals a nutritional basis for congenital skeletal dysplasiae. *Cell Metabolism*, **2006**, 4, 441-51	24.6	171
189	Inhibition of adipogenesis by the stress-induced protein CHOP (Gadd153).. *EMBO Journal*, **1995**, 14, 4654-4661	13	170

188	ERO1-beta, a pancreas-specific disulfide oxidase, promotes insulin biogenesis and glucose homeostasis. *Journal of Cell Biology*, **2010**, 188, 821-32	7.3	168
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185	Transmission of cell stress from endoplasmic reticulum to mitochondria: enhanced expression of Lon protease. *Journal of Cell Biology*, **2002**, 157, 1151-60	7.3	164
184	The gadd and MyD genes define a novel set of mammalian genes encoding acidic proteins that synergistically suppress cell growth. *Molecular and Cellular Biology*, **1994**, 14, 2361-2371	4.8	163
183	TLS (FUS) binds RNA in vivo and engages in nucleo-cytoplasmic shuttling. *Journal of Cell Science*, **1997**, 110 (Pt 15), 1741-50	5.3	160
182	Amino acid limitation induces expression of CHOP, a CCAAT/enhancer binding protein-related gene, at both transcriptional and post-transcriptional levels. *Journal of Biological Chemistry*, **1997**, 272, 17588-93	5.4	159
181	Endoplasmic reticulum stress modulates the response of myelinating oligodendrocytes to the immune cytokine interferon-gamma. *Journal of Cell Biology*, **2005**, 169, 603-12	7.3	158
180	A survival pathway for Caenorhabditis elegans with a blocked unfolded protein response. *Journal of Cell Biology*, **2002**, 158, 639-46	7.3	157
179	Lipid-dependent regulation of the unfolded protein response. *Current Opinion in Cell Biology*, **2015**, 33, 67-73	9	155
178	Vaccine activation of the nutrient sensor GCN2 in dendritic cells enhances antigen presentation. *Science*, **2014**, 343, 313-317	33.3	154
177	GDF15 Provides an Endocrine Signal of Nutritional Stress in Mice and Humans. *Cell Metabolism*, **2019**, 29, 707-718.e8	24.6	153
176	Stress responses. Mutations in a translation initiation factor identify the target of a memory-enhancing compound. *Science*, **2015**, 348, 1027-30	33.3	152
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174	The integrated stress response prevents demyelination by protecting oligodendrocytes against immune-mediated damage. *Journal of Clinical Investigation*, **2007**, 117, 448-56	15.9	145
173	Antiviral effect of the mammalian translation initiation factor 2alpha kinase GCN2 against RNA viruses. *EMBO Journal*, **2006**, 25, 1730-40	13	142
172	Structural basis by which alternative splicing confers specificity in fibroblast growth factor receptors. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 2266-71	11.5	141
171	A family of constitutive C/EBP-like DNA binding proteins attenuate the IL-1 alpha induced, NF kappa B mediated trans-activation of the angiotensinogen gene acute-phase response element.. *EMBO Journal*, **1990**, 9, 3933-3944	13	134

170	Expression patterns of the human sarcoma-associated genes FUS and EWS and the genomic structure of FUS. *Genomics*, **1996**, 37, 1-8	4.3	132
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168	Human 75-kDa DNA-pairing protein is identical to the pro-oncoprotein TLS/FUS and is able to promote D-loop formation. *Journal of Biological Chemistry*, **1999**, 274, 34337-42	5.4	124
167	The ER stress transducer IRE1 is required for airway epithelial mucin production. *Mucosal Immunology*, **2013**, 6, 639-54	9.2	123
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164	A J-Protein Co-chaperone Recruits BiP to Monomerize IRE1 and Repress the Unfolded Protein Response. *Cell*, **2017**, 171, 1625-1637.e13	56.2	120
163	Upregulation of BiP and CHOP by the unfolded-protein response is independent of presenilin expression. *Nature Cell Biology*, **2000**, 2, 863-70	23.4	120
162	CHOP-Dependent stress-inducible expression of a novel form of carbonic anhydrase VI. *Molecular and Cellular Biology*, **1999**, 19, 495-504	4.8	120
161	Proteotoxicity in the endoplasmic reticulum: lessons from the Akita diabetic mouse. *Journal of Clinical Investigation*, **2002**, 109, 443-445	15.9	116
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155	Defective ATG16L1-mediated removal of IRE1 drives Crohn's disease-like ileitis. *Journal of Experimental Medicine*, **2017**, 214, 401-422	16.6	109
154	Negative feedback by IRE1 optimizes mucin production in goblet cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 2864-9	11.5	107
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148	IRE1 and efferent signaling from the endoplasmic reticulum. *Journal of Cell Science*, **2000**, 113 Pt 21, 3697-702	5.3	96
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145	Ero1-α and PDIs constitute a hierarchical electron transfer network of endoplasmic reticulum oxidoreductases. *Journal of Cell Biology*, **2013**, 202, 861-74	7.3	93
144	The unfolded protein response element IRE1α senses bacterial proteins invading the ER to activate RIG-I and innate immune signaling. *Cell Host and Microbe*, **2013**, 13, 558-569	23.4	92
143	An arsenite-inducible 19S regulatory particle-associated protein adapts proteasomes to proteotoxicity. *Molecular Cell*, **2006**, 23, 875-85	17.6	91
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135	ADP ribosylation adapts an ER chaperone response to short-term fluctuations in unfolded protein load. *Journal of Cell Biology*, **2014**, 207, 569-569	7.3	78

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133	Enhanced integrated stress response promotes myelinating oligodendrocyte survival in response to interferon-gamma. *American Journal of Pathology*, **2008**, 173, 1508-17	5.8	78
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126	Amino acid limitation regulates CHOP expression through a specific pathway independent of the unfolded protein response. *FEBS Letters*, **1999**, 448, 211-6	3.8	73
125	Angiotensinogen gene-inducible enhancer-binding protein 1, a member of a new family of large nuclear proteins that recognize nuclear factor kappa B-binding sites through a zinc finger motif. *Molecular and Cellular Biology*, **1991**, 11, 2887-95	4.8	71
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121	Characterization of phosphopeptides from protein digests using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry and nanoelectrospray quadrupole time-of-flight mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2001**, 15, 1693-700	2.2	65
120	PPP1R15A-mediated dephosphorylation of eIF2α is unaffected by Sephin1 or Guanabenz. *ELife*, **2017**, 6,	8.9	63
119	Bioactive small molecules reveal antagonism between the integrated stress response and sterol-regulated gene expression. *Cell Metabolism*, **2005**, 2, 361-71	24.6	62
118	Characteristics of genomic breakpoints in TLS-CHOP translocations in liposarcomas suggest the involvement of Translin and topoisomerase II in the process of translocation. *Oncogene*, **1999**, 18, 721-9	9.2	61
117	The permissive role of glucocorticoids on interleukin-1 stimulation of angiotensinogen gene transcription is mediated by an interaction between inducible enhancers. *Molecular and Cellular Biology*, **1990**, 10, 4389-95	4.8	61

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113	Modulation of the eukaryotic initiation factor 2 alpha-subunit kinase PERK by tyrosine phosphorylation. *Journal of Biological Chemistry*, **2008**, 283, 469-475	5.4	58
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111	A topogenic role for the oncogenic N-terminus of TLS: nucleolar localization when transcription is inhibited. *Oncogene*, **1997**, 14, 451-61	9.2	55
110	Multiple cis-acting DNA regulatory elements mediate hepatic angiotensinogen gene expression. *Molecular Endocrinology*, **1989**, 3, 1022-34		54
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104	CHOP-independent apoptosis and pathway-selective induction of the UPR in developing plasma cells. *Molecular Immunology*, **2010**, 47, 1356-65	4.3	51
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