Martin Holcik

List of Publications by Year
in descending order

117	8,116	53794 45	48315 88
papers	citations	h-index	g-index

123	123	123	9921
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Translational control in stress and apoptosis. Nature Reviews Molecular Cell Biology, 2005, 6, 318-327.	37.0	1,185
2	XIAP: apoptotic brake and promising therapeutic target. Apoptosis: an International Journal on Programmed Cell Death, 2001, 6, 253-261.	4.9	346
3	A new internal-ribosome-entry-site motif potentiates XIAP- mediated cytoprotection. Nature Cell Biology, 1999, 1, 190-192.	10.3	282
4	An oxygen-regulated switch in the protein synthesis machinery. Nature, 2012, 486, 126-129.	27.8	266
5	Searching for IRES. Rna, 2006, 12, 1755-1785.	3.5	265
6	Perk-Dependent Translational Regulation Promotes Tumor Cell Adaptation and Angiogenesis in Response to Hypoxic Stress. Molecular and Cellular Biology, 2006, 26, 9517-9532.	2.3	264
7	RNA-Binding Proteins HuR and PTB Promote the Translation of Hypoxia-Inducible Factor 1Î±. Molecular and Cellular Biology, 2008, 28, 93-107.	2.3	257
8	Translational upregulation of X-linked inhibitor of apoptosis (XIAP) increases resistance to radiation induced cell death. Oncogene, 2000, 19, 4174-4177.	5.9	240
9	XIAP, the guardian angel. Nature Reviews Molecular Cell Biology, 2001, 2, 550-556.	37.0	238
10	Internal ribosome initiation of translation and the control of cell death. Trends in Genetics, 2000, 16, 469-473.	6.7	229
11	Functional Characterization of the X-Linked Inhibitor of Apoptosis (XIAP) Internal Ribosome Entry Site Element: Role of La Autoantigen in XIAP Translation. Molecular and Cellular Biology, 2000, 20, 4648-4657.	2.3	209
12	Posttranscriptional Regulation of Collagen Î±1(I) mRNA in Hepatic Stellate Cells. Molecular and Cellular Biology, 1997, 17, 5201-5209.	2.3	196
13	Four highly stable eukaryotic mRNAs assemble 3' untranslated region RNA-protein complexes sharing cis and trans components. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 2410-2414.	7.1	183
14	Inhibitor of Apoptosis Protein cIAP2 Is Essential for Lipopolysaccharide-Induced Macrophage Survival. Molecular and Cellular Biology, 2006, 26, 699-708.	2.3	182
15	Mutations in TRNT1 cause congenital sideroblastic anemia with immunodeficiency, fevers, and developmental delay (SIFD). Blood, 2014, 124, 2867-2871.	1.4	162
16	The Internal Ribosome Entry Site-Mediated Translation of Antiapoptotic Protein XIAP Is Modulated by the Heterogeneous Nuclear Ribonucleoproteins C1 and C2. Molecular and Cellular Biology, 2003, 23, 280-288.	2.3	146
17	Distinct Regulation of Internal Ribosome Entry Site-mediated Translation following Cellular Stress Is Mediated by Apoptotic Fragments of eIF4G Translation Initiation Factor Family Members eIF4GI and p97/DAP5/NAT1. Journal of Biological Chemistry, 2003, 278, 3572-3579.	3.4	132
18	Translational Induction of the Inhibitor of Apoptosis Protein HIAP2 during Endoplasmic Reticulum Stress Attenuates Cell Death and Is Mediated via an Inducible Internal Ribosome Entry Site Element. Journal of Biological Chemistry, 2004, 279, 17148-17157.	3.4	130

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19	Cytoplasmic Relocalization of Heterogeneous Nuclear Ribonucleoprotein A1 Controls Translation Initiation of Specific mRNAs. Molecular Biology of the Cell, 2007, 18, 5048-5059.	2.1	128
20	DNM1L-related mitochondrial fission defect presenting as refractory epilepsy. European Journal of Human Genetics, 2016, 24, 1084-1088.	2.8	113
21	IRES-mediated translation of cellular messenger RNA operates in eIF2Î±- independent manner during stress. Nucleic Acids Research, 2012, 40, 541-552.	14.5	105
22	An internal ribosomal entry site mediates redox-sensitive translation of Nrf2. Nucleic Acids Research, 2010, 38, 778-788.	14.5	103
23	Phosphorylation of eIF2Î± at Serine 51 Is an Important Determinant of Cell Survival and Adaptation to Glucose Deficiency. Molecular Biology of the Cell, 2010, 21, 3220-3231.	2.1	100
24	Subcellular Relocalization of a Trans-acting Factor Regulates XIAP IRES-dependent Translation. Molecular Biology of the Cell, 2007, 18, 1302-1311.	2.1	99
25	The hippocampal neurons of neuronal apoptosis inhibitory protein 1 (NAIP1)-deleted mice display increased vulnerability to kainic acid-induced injury. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 2286-2290.	7.1	92
26	p38 Mitogen-activated protein kinase stabilizes SMN mRNA through RNA binding protein HuR. Human Molecular Genetics, 2009, 18, 4035-4045.	2.9	83
27	eIF2Î± Phosphorylation Tips the Balance to Apoptosis during Osmotic Stress. Journal of Biological Chemistry, 2010, 285, 17098-17111.	3.4	83
28	DAP5 associates with eIF2Î² and eIF4AI to promote Internal Ribosome Entry Site driven translation. Nucleic Acids Research, 2015, 43, 3764-3775.	14.5	81
29	RNA-binding protein HuR mediates cytoprotection through stimulation of XIAP translation. Oncogene, 2011, 30, 1460-1469.	5.9	80
30	Tumor Suppressor PDCD4 Represses Internal Ribosome Entry Site-Mediated Translation of Antiapoptotic Proteins and Is Regulated by S6 Kinase 2. Molecular and Cellular Biology, 2012, 32, 1818-1829.	2.3	78
31	For IRES trans-acting factors, it is all about location. Oncogene, 2008, 27, 1033-1035.	5.9	75
32	hnRNPA1 couples nuclear export and translation of specific mRNAs downstream of FGF-2/S6K2 signalling. Nucleic Acids Research, 2014, 42, 12483-12497.	14.5	75
33	The eIF4G homolog DAP5/p97 supports the translation of select mRNAs during endoplasmic reticulum stress. Nucleic Acids Research, 2007, 36, 168-178.	14.5	72
34	Prolactin increases SMN expression and survival in a mouse model of severe spinal muscular atrophy via the STAT5 pathway. Journal of Clinical Investigation, 2011, 121, 3042-3050.	8.2	72
35	A search for structurally similar cellular internal ribosome entry sites. Nucleic Acids Research, 2007, 35, 4664-4677.	14.5	70
36	Cap-independent regulation of gene expression in apoptosis. Molecular BioSystems, 2007, 3, 825.	2.9	63

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37	Could the eIF2Î±-Independent Translation Be the Achilles Heel of Cancer?. Frontiers in Oncology, 2015, 5, 264.	2.8	60
38	Translational Regulation of X-Linked Inhibitor of Apoptosis Protein by Interleukin-6. Cancer Research, 2004, 64, 1293-1298.	0.9	57
39	Spurious splicing within the XIAP 5' UTR occurs in the Rluc/Fluc but not the Âgal/CAT bicistronic reporter system. Rna, 2005, 11, 1605-1609.	3.5	57
40	NF45 functions as an IRES trans-acting factor that is required for translation of cIAP1 during the unfolded protein response. Cell Death and Differentiation, 2010, 17, 719-729.	11.2	57
41	The Utrophin A 5â€²-Untranslated Region Confers Internal Ribosome Entry Site-mediated Translational Control during Regeneration of Skeletal Muscle Fibers. Journal of Biological Chemistry, 2005, 280, 32997-33005.	3.4	54
42	Strong Eukaryotic IRESs Have Weak Secondary Structure. PLoS ONE, 2009, 4, e4136.	2.5	54
43	Celecoxib increases SMN and survival in a severe spinal muscular atrophy mouse model via p38 pathway activation. Human Molecular Genetics, 2013, 22, 3415-3424.	2.9	52
44	Distinct 5â€² UTRs regulate XIAP expression under normal growth conditions and during cellular stress. Nucleic Acids Research, 2010, 38, 4665-4674.	14.5	49
45	IRES in distress: translational regulation of the inhibitor of apoptosis proteins XIAP and HIAP2 during cell stress. Cell Death and Differentiation, 2005, 12, 547-553.	11.2	47
46	Targeting Translation for Treatment of Cancer - A Novel Role for IRES?. Current Cancer Drug Targets, 2004, 4, 299-311.	1.6	45
47	hnRNP A1 regulates UV-induced NF-Î°B signalling through destabilization of cIAP1 mRNA. Cell Death and Differentiation, 2009, 16, 244-252.	11.2	44
48	Conditionally lethal genes associated with bacterial plasmids. Microbiology (United Kingdom), 1997, 143, 3403-3416.	1.8	44
49	IGF2BP1 controls cell death and drug resistance in rhabdomyosarcomas by regulating translation of cIAP1. Oncogene, 2015, 34, 1532-1541.	5.9	41
50	The role of IRES trans-acting factors in carcinogenesis. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2015, 1849, 887-897.	1.9	39
51	IRES-Mediated Translation of Utrophin A Is Enhanced by Glucocorticoid Treatment in Skeletal Muscle Cells. PLoS ONE, 2008, 3, e2309.	2.5	39
52	Internal Ribosome Entry Site-mediated Translation of Apaf-1, but Not XIAP, Is Regulated during UV-induced Cell Death*. Journal of Biological Chemistry, 2006, 281, 15155-15163.	3.4	38
53	Prenatal physical activity and diet composition affect the expression of nutrient transporters and mTOR signaling molecules in the human placenta. Placenta, 2015, 36, 204-212.	1.5	38
54	Translational Upregulation of the X-Linked Inhibitor of Apoptosis. Annals of the New York Academy of Sciences, 2003, 1010, 249-258.	3.8	37

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55	Loss of PDCD4 contributes to enhanced chemoresistance in Glioblastoma Multiforme through de-repression of Bcl-xL translation. Oncotarget, 2013, 4, 1365-1372.	1.8	37
56	Cloning and characterization of the rat homologues of the Inhibitor of Apoptosis protein 1, 2, and 3 genes.. BMC Genomics, 2002, 3, 5.	2.8	36
57	Assessment of Selective mRNA Translation in Mammalian Cells by Polysome Profiling. Journal of Visualized Experiments, 2014, , e52295.	0.3	36
58	Homozygous mutation in the eukaryotic translation initiation factor 2alpha phosphatase gene,PPP1R15B, is associated with severe microcephaly, short stature and intellectual disability. Human Molecular Genetics, 2015, 24, 6293-6300.	2.9	36
59	Expression of the inhibitor of apoptosis protein family in multiple sclerosis reveals a potential immunomodulatory role during autoimmune mediated demyelination. Multiple Sclerosis Journal, 2008, 14, 577-594.	3.0	34
60	The utrophin A 5'-UTR drives cap-independent translation exclusively in skeletal muscles of transgenic mice and interacts with eEF1A2. Human Molecular Genetics, 2010, 19, 1211-1220.	2.9	32
61	The translation of an antiapoptotic protein HIAP2 is regulated by an upstream open reading frame. Cell Death and Differentiation, 2003, 10, 899-904.	11.2	29
62	Cellular mRNA recruits the ribosome via eIF3-PABP bridge to initiate internal translation. RNA Biology, 2017, 14, 553-567.	3.1	28
63	ERK8 is a novel HuR kinase that regulates tumour suppressor PDCD4 through a miR-21 dependent mechanism. Oncotarget, 2016, 7, 1439-1450.	1.8	28
64	Effects of aerobic training, resistance training, or both on brain-derived neurotrophic factor in adolescents with obesity: The hearty randomized controlled trial. Physiology and Behavior, 2018, 191, 138-145.	2.1	26
65	Nucleotide Composition of Cellular Internal Ribosome Entry Sites Defines Dependence on NF45 and Predicts a Posttranscriptional Mitotic Regulon. Molecular and Cellular Biology, 2013, 33, 307-318.	2.3	23
66	Oncolytic virus synergizes with Smac mimetic compounds to induce rhabdomyosarcoma cell death in a syngeneic murine model. Oncotarget, 2017, 8, 3495-3508.	1.8	22
67	Post-transcriptional control of gene expression through subcellular relocalization of mRNA binding proteins. Biochemical Pharmacology, 2008, 76, 1395-1403.	4.4	21
68	Distinct roles for the cellular inhibitors of apoptosis proteins 1 and 2. Cell Death and Disease, 2011, 2, e135-e135.	6.3	21
69	Involvement of Yeast HSP90 Isoforms in Response to Stress and Cell Death Induced by Acetic Acid. PLoS ONE, 2013, 8, e71294.	2.5	21
70	Placenta nutrient transport-related gene expression: the impact of maternal obesity and excessive gestational weight gain. Journal of Maternal-Fetal and Neonatal Medicine, 2016, 29, 1399-1405.	1.5	20
71	Changes in the Brain-Derived Neurotrophic Factor Are Associated with Improvements in Diabetes Risk Factors after Exercise Training in Adolescents with Obesity: The HEARTY Randomized Controlled Trial. Neural Plasticity, 2018, 2018, 1-8.	2.2	20
72	Detailed Biochemical and Bioenergetic Characterization of FBXL4-Related Encephalomyopathic Mitochondrial DNA Depletion. JIMD Reports, 2015, 27, 1-9.	1.5	19

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73	Hexokinase 2 controls cellular stress response through localization of an RNA-binding protein. Cell Death and Disease, 2015, 6, e1837-e1837.	6.3	19
74	Impaired activity of CCA-adding enzyme TRNT1 impacts OXPHOS complexes and cellular respiration in SIFD patient-derived fibroblasts. Orphanet Journal of Rare Diseases, 2016, 11, 79.	2.7	18
75	Diseases Associated with Defects in tRNA CCA Addition. International Journal of Molecular Sciences, 2020, 21, 3780.	4.1	18
76	Identification of therapeutics that target eEF1A2 and upregulate utrophin A translation in dystrophic muscles. Nature Communications, 2020, 11, 1990.	12.8	18
77	HuR controls mitochondrial morphology through the regulation of Bcl_{xL}translation. Translation, 2013, 1, e23980.	2.9	15
78	The sensitivity of the yeast, Saccharomyces cerevisiae, to acetic acid is influenced by DOM34 and RPL36A. PeerJ, 2017, 5, e4037.	2.0	15
79	The IAP proteins. Trends in Genetics, 2002, 18, 537-538.	6.7	13
80	VPAC2 receptor agonist BAY 55-9837 increases SMN protein levels and moderates disease phenotype in severe spinal muscular atrophy mouse models. Orphanet Journal of Rare Diseases, 2014, 9, 4.	2.7	13
81	Structure and Mode of Action ofkikA,a Genetic Region Lethal toKlebsiella oxytocaand Associated with Conjugative Antibiotic-Resistance Plasmids of the IncN Group. Plasmid, 1996, 35, 189-203.	1.4	11
82	Endogenous expression of inhibitor of apoptosis proteins in facial motoneurons of neonatal and adult rats following axotomy. Neuroscience, 2003, 117, 567-575.	2.3	11
83	A novel cis -acting element from the 3â€²UTR of DNA damage-binding protein 2 mRNA links transcriptional and post-transcriptional regulation of gene expression. Nucleic Acids Research, 2013, 41, 5692-5703.	14.5	11
84	Heavy metal sensitivities of gene deletion strains for ITT1 and RPS1A connect their activities to the expression of URE2, a key gene involved in metal detoxification in yeast. PLoS ONE, 2018, 13, e0198704.	2.5	11
85	Characterizing Cellular Responses During Oncolytic Maraba Virus Infection. International Journal of Molecular Sciences, 2019, 20, 580.	4.1	10
86	Lethality and survival of Klebsiella oxytoca evoked by conjugative IncN group plasmids. Journal of Bacteriology, 1995, 177, 6352-6361.	2.2	9
87	Sensitivity of yeast to lithium chloride connects the activity of YTA6 and YPR096C to translation of structured mRNAs. PLoS ONE, 2020, 15, e0235033.	2.5	9
88	Distinct expression of neuronal apoptosis inhibitory protein (NAIP) during murine development. NeuroReport, 2002, 13, 397-402.	1.2	8
89	Lithium Chloride Sensitivity in Yeast and Regulation of Translation. International Journal of Molecular Sciences, 2020, 21, 5730.	4.1	8
90	RNA structure: new messages in translation, replication and disease. EMBO Reports, 2009, 10, 449-453.	4.5	7

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91	Screen time is independently associated with serum brain-derived neurotrophic factor (BDNF) in youth with obesity. Applied Physiology, Nutrition and Metabolism, 2021, 46, 1083-1090.	1.9	7
92	Loss of Cellular Inhibitor of Apoptosis Protein 2 Reduces Atherosclerosis in Atherogenic apoE ^{â˜'/â˜'} C57BL/6 Mice on Highâ€Fat Diet. Journal of the American Heart Association, 2013, 2, e000259.	3.7	6
93	Elevated levels of ribosomal proteins eL36 and eL42 control expression of Hsp90 in rhabdomyosarcoma. Translation, 2016, 4, e1244395.	2.9	6
94	Analysis of mRNP Complexes Assembled in Vitro. , 1997, , 195-209.		6
95	Targeting endogenous inhibitors of apoptosis for treatment of cancer, stroke and multiple sclerosis. Expert Opinion on Therapeutic Targets, 2004, 8, 241-253.	3.4	5
96	Bacterial DNA Protects Monocytic Cells against HIV-Vprâ€"Induced Mitochondrial Membrane Depolarization. Journal of Immunology, 2016, 196, 3754-3767.	0.8	4
97	Maternal physical activity significantly alters the placental transcriptome. Placenta, 2020, 100, 111-121.	1.5	4
98	An Approach to Whole-Genome Identification of IRES Elements. Current Genomics, 2006, 7, 205-215.	1.6	3
99	Engaging Cell Death Pathways for the Treatment of Rhabdomyosarcoma. Critical Reviews in Oncogenesis, 2016, 21, 221-239.	0.4	3
100	Distinct patterns of expression of the inhibitor of apoptosis protein cIAP2 during murine embryogenesis. Apoptosis: an International Journal on Programmed Cell Death, 2006, 11, 1257-1259.	4.9	2
101	RNA Affinity Chromatography. , 2012, , .		2
102	Conditionally Lethal Genes in the N Pilus Region of Plasmid pCU1. Plasmid, 1999, 42, 53-59.	1.4	1
103	Neuronal cell death in human neurodegenerative diseases and their animal/cell models. , 2005, , 96-155.		1
104	A novel death domain of Grim induces IAP-independent apoptosis. Trends in Genetics, 2002, 18, 443.	6.7	0
105	T.P.8 Induction of SMN protein by combination of STAT5 and p38 kinase activating, clinic ready compounds for the treatment of SMA. Neuromuscular Disorders, 2012, 22, 848-849.	0.6	0
106	Landes Highlights. RNA Biology, 2013, 10, 653-654.	3.1	0
107	Abstract 2113: Programmed cell death 4 (PDCD4) regulates apoptotic resistance of human gliomas. , 2011, , .		0
108	Prolactin increases SMN expression and survival in a mouse model of severe spinal muscular atrophy via the STAT5 pathway. Journal of Clinical Investigation, 2011, 121, 3763-3763.	8.2	0

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109	Abstract 4256: Characterization of the cellular inhibitor of apoptosis 1 (cIAP1) IRES trans-acting factors and their contribution to apoptotic resistance in rhabdomyosarcomas. , 2014, , .		0
110	Title is missing!. , 2020, 15, e0235033.		0
111	Title is missing!. , 2020, 15, e0235033.		0
112	Title is missing!. , 2020, 15, e0235033.		0
113	Title is missing!. , 2020, 15, e0235033.		0
114	Title is missing!. , 2020, 15, e0235033.		0
115	Title is missing!. , 2020, 15, e0235033.		0
116	Title is missing!. , 2020, 15, e0235033.		0
117	Title is missing!. , 2020, 15, e0235033.		0