

# Martin Holcik

## List of Publications by Year in descending order

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117  
papers

8,116  
citations

53794

45  
h-index

48315

88  
g-index

123  
all docs

123  
docs citations

123  
times ranked

9921  
citing authors

#	ARTICLE	IF	CITATIONS
1	Screen time is independently associated with serum brain-derived neurotrophic factor (BDNF) in youth with obesity. <i>Applied Physiology, Nutrition and Metabolism</i> , 2021, 46, 1083-1090.	1.9	7
2	Maternal physical activity significantly alters the placental transcriptome. <i>Placenta</i> , 2020, 100, 111-121.	1.5	4
3	Lithium Chloride Sensitivity in Yeast and Regulation of Translation. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5730.	4.1	8
4	Diseases Associated with Defects in tRNA CCA Addition. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3780.	4.1	18
5	Sensitivity of yeast to lithium chloride connects the activity of YTA6 and YPR096C to translation of structured mRNAs. <i>PLoS ONE</i> , 2020, 15, e0235033.	2.5	9
6	Identification of therapeutics that target eEF1A2 and upregulate utrophin A translation in dystrophic muscles. <i>Nature Communications</i> , 2020, 11, 1990.	12.8	18
7	Title is missing!. , 2020, 15, e0235033.		0
8	Title is missing!. , 2020, 15, e0235033.		0
9	Title is missing!. , 2020, 15, e0235033.		0
10	Title is missing!. , 2020, 15, e0235033.		0
11	Title is missing!. , 2020, 15, e0235033.		0
12	Title is missing!. , 2020, 15, e0235033.		0
13	Title is missing!. , 2020, 15, e0235033.		0
14	Title is missing!. , 2020, 15, e0235033.		0
15	Characterizing Cellular Responses During Oncolytic Maraba Virus Infection. <i>International Journal of Molecular Sciences</i> , 2019, 20, 580.	4.1	10
16	Effects of aerobic training, resistance training, or both on brain-derived neurotrophic factor in adolescents with obesity: The hearty randomized controlled trial. <i>Physiology and Behavior</i> , 2018, 191, 138-145.	2.1	26
17	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. <i>PLoS ONE</i> , 2018, 13, e0198704.	2.5	11
18	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. <i>Neural Plasticity</i> , 2018, 2018, 1-8.	2.2	20

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19	Cellular mRNA recruits the ribosome via eIF3-PABP bridge to initiate internal translation. <i>RNA Biology</i> , 2017, 14, 553-567.	3.1	28
20	Oncolytic virus synergizes with Smac mimetic compounds to induce rhabdomyosarcoma cell death in a syngeneic murine model. <i>Oncotarget</i> , 2017, 8, 3495-3508.	1.8	22
21	The sensitivity of the yeast, <i>Saccharomyces cerevisiae</i> , to acetic acid is influenced by <i>DOM34</i> and <i>RPL36A</i> . <i>PeerJ</i> , 2017, 5, e4037.	2.0	15
22	Impaired activity of CCA-adding enzyme TRNT1 impacts OXPHOS complexes and cellular respiration in SIFD patient-derived fibroblasts. <i>Orphanet Journal of Rare Diseases</i> , 2016, 11, 79.	2.7	18
23	Elevated levels of ribosomal proteins eL36 and eL42 control expression of Hsp90 in rhabdomyosarcoma. <i>Translation</i> , 2016, 4, e1244395.	2.9	6
24	DNM1L-related mitochondrial fission defect presenting as refractory epilepsy. <i>European Journal of Human Genetics</i> , 2016, 24, 1084-1088.	2.8	113
25	Bacterial DNA Protects Monocytic Cells against HIV-Vpr-Induced Mitochondrial Membrane Depolarization. <i>Journal of Immunology</i> , 2016, 196, 3754-3767.	0.8	4
26	Placenta nutrient transport-related gene expression: the impact of maternal obesity and excessive gestational weight gain. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2016, 29, 1399-1405.	1.5	20
27	Engaging Cell Death Pathways for the Treatment of Rhabdomyosarcoma. <i>Critical Reviews in Oncogenesis</i> , 2016, 21, 221-239.	0.4	3
28	ERK8 is a novel HuR kinase that regulates tumour suppressor PDCD4 through a miR-21 dependent mechanism. <i>Oncotarget</i> , 2016, 7, 1439-1450.	1.8	28
29	Could the eIF2 <sup>±</sup> -Independent Translation Be the Achilles Heel of Cancer?. <i>Frontiers in Oncology</i> , 2015, 5, 264.	2.8	60
30	Prenatal physical activity and diet composition affect the expression of nutrient transporters and mTOR signaling molecules in the human placenta. <i>Placenta</i> , 2015, 36, 204-212.	1.5	38
31	IGF2BP1 controls cell death and drug resistance in rhabdomyosarcomas by regulating translation of cIAP1. <i>Oncogene</i> , 2015, 34, 1532-1541.	5.9	41
32	Detailed Biochemical and Bioenergetic Characterization of FBXL4-Related Encephalomyopathic Mitochondrial DNA Depletion. <i>JIMD Reports</i> , 2015, 27, 1-9.	1.5	19
33	Hexokinase 2 controls cellular stress response through localization of an RNA-binding protein. <i>Cell Death and Disease</i> , 2015, 6, e1837-e1837.	6.3	19
34	DAP5 associates with eIF2 <sup>2</sup> and eIF4A1 to promote Internal Ribosome Entry Site driven translation. <i>Nucleic Acids Research</i> , 2015, 43, 3764-3775.	14.5	81
35	Homozygous mutation in the eukaryotic translation initiation factor 2alpha phosphatase gene, <i>PPP1R15B</i> , is associated with severe microcephaly, short stature and intellectual disability. <i>Human Molecular Genetics</i> , 2015, 24, 6293-6300.	2.9	36
36	The role of IRES trans-acting factors in carcinogenesis. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2015, 1849, 887-897.	1.9	39

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37	hnRNPA1 couples nuclear export and translation of specific mRNAs downstream of FGF-2/S6K2 signalling. <i>Nucleic Acids Research</i> , 2014, 42, 12483-12497.	14.5	75
38	VPAC2 receptor agonist BAY 55-9837 increases SMN protein levels and moderates disease phenotype in severe spinal muscular atrophy mouse models. <i>Orphanet Journal of Rare Diseases</i> , 2014, 9, 4.	2.7	13
39	Assessment of Selective mRNA Translation in Mammalian Cells by Polysome Profiling. <i>Journal of Visualized Experiments</i> , 2014, , e52295.	0.3	36
40	Mutations in TRNT1 cause congenital sideroblastic anemia with immunodeficiency, fevers, and developmental delay (SIFD). <i>Blood</i> , 2014, 124, 2867-2871.	1.4	162
41	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
42	Celecoxib increases SMN and survival in a severe spinal muscular atrophy mouse model via p38 pathway activation. <i>Human Molecular Genetics</i> , 2013, 22, 3415-3424.	2.9	52
43	HuR controls mitochondrial morphology through the regulation of Bcl <sub>xL</sub> translation. <i>Translation</i> , 2013, 1, e23980.	2.9	15
44	A novel cis -acting element from the 3'UTR of DNA damage-binding protein 2 mRNA links transcriptional and post-transcriptional regulation of gene expression. <i>Nucleic Acids Research</i> , 2013, 41, 5692-5703.	14.5	11
45	Loss of Cellular Inhibitor of Apoptosis Protein 2 Reduces Atherosclerosis in Atherogenic apoE <sup>−/−</sup> C57BL/6 Mice on High Fat Diet. <i>Journal of the American Heart Association</i> , 2013, 2, e000259.	3.7	6
46	Landes Highlights. <i>RNA Biology</i> , 2013, 10, 653-654.	3.1	0
47	Nucleotide Composition of Cellular Internal Ribosome Entry Sites Defines Dependence on NF45 and Predicts a Posttranscriptional Mitotic Regulon. <i>Molecular and Cellular Biology</i> , 2013, 33, 307-318.	2.3	23
48	Involvement of Yeast HSP90 Isoforms in Response to Stress and Cell Death Induced by Acetic Acid. <i>PLoS ONE</i> , 2013, 8, e71294.	2.5	21
49	Loss of PDCD4 contributes to enhanced chemoresistance in Glioblastoma Multiforme through de-repression of Bcl-xL translation. <i>Oncotarget</i> , 2013, 4, 1365-1372.	1.8	37
50	Tumor Suppressor PDCD4 Represses Internal Ribosome Entry Site-Mediated Translation of Antiapoptotic Proteins and Is Regulated by S6 Kinase 2. <i>Molecular and Cellular Biology</i> , 2012, 32, 1818-1829.	2.3	78
51	IRES-mediated translation of cellular messenger RNA operates in eIF2 <sup>±</sup> - independent manner during stress. <i>Nucleic Acids Research</i> , 2012, 40, 541-552.	14.5	105
52	T.P.8 Induction of SMN protein by combination of STAT5 and p38 kinase activating, clinic ready compounds for the treatment of SMA. <i>Neuromuscular Disorders</i> , 2012, 22, 848-849.	0.6	0
53	RNA Affinity Chromatography. , 2012, , .		2
54	An oxygen-regulated switch in the protein synthesis machinery. <i>Nature</i> , 2012, 486, 126-129.	27.8	266

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55	RNA-binding protein HuR mediates cytoprotection through stimulation of XIAP translation. <i>Oncogene</i> , 2011, 30, 1460-1469.	5.9	80
56	Distinct roles for the cellular inhibitors of apoptosis proteins 1 and 2. <i>Cell Death and Disease</i> , 2011, 2, e135-e135.	6.3	21
57	Prolactin increases SMN expression and survival in a mouse model of severe spinal muscular atrophy via the STAT5 pathway. <i>Journal of Clinical Investigation</i> , 2011, 121, 3042-3050.	8.2	72
58	Abstract 2113: Programmed cell death 4 (PDCD4) regulates apoptotic resistance of human gliomas. , 2011, , .		0
59	Prolactin increases SMN expression and survival in a mouse model of severe spinal muscular atrophy via the STAT5 pathway. <i>Journal of Clinical Investigation</i> , 2011, 121, 3763-3763.	8.2	0
60	NF45 functions as an IRES trans-acting factor that is required for translation of cIAP1 during the unfolded protein response. <i>Cell Death and Differentiation</i> , 2010, 17, 719-729.	11.2	57
61	An internal ribosomal entry site mediates redox-sensitive translation of Nrf2. <i>Nucleic Acids Research</i> , 2010, 38, 778-788.	14.5	103
62	The utrophin A 5'-UTR drives cap-independent translation exclusively in skeletal muscles of transgenic mice and interacts with eEF1A2. <i>Human Molecular Genetics</i> , 2010, 19, 1211-1220.	2.9	32
63	Distinct 5' UTRs regulate XIAP expression under normal growth conditions and during cellular stress. <i>Nucleic Acids Research</i> , 2010, 38, 4665-4674.	14.5	49
64	eIF2 $\gamma$ Phosphorylation Tips the Balance to Apoptosis during Osmotic Stress. <i>Journal of Biological Chemistry</i> , 2010, 285, 17098-17111.	3.4	83
65	Phosphorylation of eIF2 $\gamma$ at Serine 51 Is an Important Determinant of Cell Survival and Adaptation to Glucose Deficiency. <i>Molecular Biology of the Cell</i> , 2010, 21, 3220-3231.	2.1	100
66	p38 Mitogen-activated protein kinase stabilizes SMN mRNA through RNA binding protein HuR. <i>Human Molecular Genetics</i> , 2009, 18, 4035-4045.	2.9	83
67	RNA structure: new messages in translation, replication and disease. <i>EMBO Reports</i> , 2009, 10, 449-453.	4.5	7
68	hnRNP A1 regulates UV-induced NF- $\kappa$ B signalling through destabilization of cIAP1 mRNA. <i>Cell Death and Differentiation</i> , 2009, 16, 244-252.	11.2	44
69	Strong Eukaryotic IRESs Have Weak Secondary Structure. <i>PLoS ONE</i> , 2009, 4, e4136.	2.5	54
70	Expression of the inhibitor of apoptosis protein family in multiple sclerosis reveals a potential immunomodulatory role during autoimmune mediated demyelination. <i>Multiple Sclerosis Journal</i> , 2008, 14, 577-594.	3.0	34
71	For IRES trans-acting factors, it is all about location. <i>Oncogene</i> , 2008, 27, 1033-1035.	5.9	75
72	Post-transcriptional control of gene expression through subcellular relocalization of mRNA binding proteins. <i>Biochemical Pharmacology</i> , 2008, 76, 1395-1403.	4.4	21

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73	RNA-Binding Proteins HuR and PTB Promote the Translation of Hypoxia-Inducible Factor 1 $\alpha$ . <i>Molecular and Cellular Biology</i> , 2008, 28, 93-107.	2.3	257
74	IRES-Mediated Translation of Utrophin A Is Enhanced by Glucocorticoid Treatment in Skeletal Muscle Cells. <i>PLoS ONE</i> , 2008, 3, e2309.	2.5	39
75	A search for structurally similar cellular internal ribosome entry sites. <i>Nucleic Acids Research</i> , 2007, 35, 4664-4677.	14.5	70
76	Subcellular Relocalization of a Trans-acting Factor Regulates XIAP IRES-dependent Translation. <i>Molecular Biology of the Cell</i> , 2007, 18, 1302-1311.	2.1	99
77	Cytoplasmic Relocalization of Heterogeneous Nuclear Ribonucleoprotein A1 Controls Translation Initiation of Specific mRNAs. <i>Molecular Biology of the Cell</i> , 2007, 18, 5048-5059.	2.1	128
78	The eIF4G homolog DAP5/p97 supports the translation of select mRNAs during endoplasmic reticulum stress. <i>Nucleic Acids Research</i> , 2007, 36, 168-178.	14.5	72
79	Cap-independent regulation of gene expression in apoptosis. <i>Molecular BioSystems</i> , 2007, 3, 825.	2.9	63
80	Distinct patterns of expression of the inhibitor of apoptosis protein cIAP2 during murine embryogenesis. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2006, 11, 1257-1259.	4.9	2
81	An Approach to Whole-Genome Identification of IRES Elements. <i>Current Genomics</i> , 2006, 7, 205-215.	1.6	3
82	Inhibitor of Apoptosis Protein cIAP2 Is Essential for Lipopolysaccharide-Induced Macrophage Survival. <i>Molecular and Cellular Biology</i> , 2006, 26, 699-708.	2.3	182
83	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
84	Internal Ribosome Entry Site-mediated Translation of Apaf-1, but Not XIAP, Is Regulated during UV-induced Cell Death*. <i>Journal of Biological Chemistry</i> , 2006, 281, 15155-15163.	3.4	38
85	Searching for IRES. <i>Rna</i> , 2006, 12, 1755-1785.	3.5	265
86	Translational control in stress and apoptosis. <i>Nature Reviews Molecular Cell Biology</i> , 2005, 6, 318-327.	37.0	1,185
87	IRES in distress: translational regulation of the inhibitor of apoptosis proteins XIAP and HIAP2 during cell stress. <i>Cell Death and Differentiation</i> , 2005, 12, 547-553.	11.2	47
88	Neuronal cell death in human neurodegenerative diseases and their animal/cell models. , 2005, , 96-155.		1
89	Spurious splicing within the XIAP 5' UTR occurs in the Rluc/Fluc but not the $\beta$ gal/CAT bicistronic reporter system. <i>Rna</i> , 2005, 11, 1605-1609.	3.5	57
90	The Utrophin A 5' Untranslated Region Confers Internal Ribosome Entry Site-mediated Translational Control during Regeneration of Skeletal Muscle Fibers. <i>Journal of Biological Chemistry</i> , 2005, 280, 32997-33005.	3.4	54

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91	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
92	Targeting Translation for Treatment of Cancer - A Novel Role for IRES?. Current Cancer Drug Targets, 2004, 4, 299-311.	1.6	45
93	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
94	Translational Regulation of X-Linked Inhibitor of Apoptosis Protein by Interleukin-6. Cancer Research, 2004, 64, 1293-1298.	0.9	57
95	Translational Upregulation of the X-Linked Inhibitor of Apoptosis. Annals of the New York Academy of Sciences, 2003, 1010, 249-258.	3.8	37
96	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
97	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
98	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
99	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
100	Distinct expression of neuronal apoptosis inhibitory protein (NAIP) during murine development. NeuroReport, 2002, 13, 397-402.	1.2	8
101	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
102	The IAP proteins. Trends in Genetics, 2002, 18, 537-538.	6.7	13
103	A novel death domain of Grim induces IAP-independent apoptosis. Trends in Genetics, 2002, 18, 443.	6.7	0
104	XIAP: apoptotic brake and promising therapeutic target. Apoptosis: an International Journal on Programmed Cell Death, 2001, 6, 253-261.	4.9	346
105	XIAP, the guardian angel. Nature Reviews Molecular Cell Biology, 2001, 2, 550-556.	37.0	238
106	Translational upregulation of X-linked inhibitor of apoptosis (XIAP) increases resistance to radiation induced cell death. Oncogene, 2000, 19, 4174-4177.	5.9	240
107	Internal ribosome initiation of translation and the control of cell death. Trends in Genetics, 2000, 16, 469-473.	6.7	229
108	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

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109	Functional Characterization of the X-Linked Inhibitor of Apoptosis (XIAP) Internal Ribosome Entry Site Element: Role of La Autoantigen in XIAP Translation. <i>Molecular and Cellular Biology</i> , 2000, 20, 4648-4657.	2.3	209
110	A new internal-ribosome-entry-site motif potentiates XIAP- mediated cytoprotection. <i>Nature Cell Biology</i> , 1999, 1, 190-192.	10.3	282
111	Conditionally Lethal Genes in the N Pilus Region of Plasmid pCU1. <i>Plasmid</i> , 1999, 42, 53-59.	1.4	1
112	Posttranscriptional Regulation of Collagen $\alpha 1(I)$ mRNA in Hepatic Stellate Cells. <i>Molecular and Cellular Biology</i> , 1997, 17, 5201-5209.	2.3	196
113	Four highly stable eukaryotic mRNAs assemble 3' untranslated region RNA-protein complexes sharing cis and trans components. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 2410-2414.	7.1	183
114	Analysis of mRNP Complexes Assembled in Vitro. , 1997, , 195-209.		6
115	Conditionally lethal genes associated with bacterial plasmids. <i>Microbiology (United Kingdom)</i> , 1997, 143, 3403-3416.	1.8	44
116	Structure and Mode of Action of <i>kikA</i> , a Genetic Region Lethal to <i>Klebsiella oxytoca</i> and Associated with Conjugative Antibiotic-Resistance Plasmids of the IncN Group. <i>Plasmid</i> , 1996, 35, 189-203.	1.4	11
117	Lethality and survival of <i>Klebsiella oxytoca</i> evoked by conjugative IncN group plasmids. <i>Journal of Bacteriology</i> , 1995, 177, 6352-6361.	2.2	9