

Encarnacin Martnez-Salas

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#	Paper	IF	Citations
103	The quasispecies (extremely heterogeneous) nature of viral RNA genome populations: biological relevance--a review. <i>Gene</i> , 1985 , 40, 1-8	3.8	392
102	Internal ribosome entry site biology and its use in expression vectors. <i>Current Opinion in Biotechnology</i> , 1999 , 10, 458-64	11.4	153
101	New insights into internal ribosome entry site elements relevant for viral gene expression. <i>Journal of General Virology</i> , 2008 , 89, 611-626	4.9	113
100	Interaction of the eIF4G initiation factor with the aphthovirus IRES is essential for internal translation initiation in vivo. <i>Rna</i> , 2000 , 6, 1380-92	5.8	113
99	Conserved structural motifs located in distal loops of aphthovirus internal ribosome entry site domain 3 are required for internal initiation of translation. <i>Journal of Virology</i> , 1997 , 71, 4171-5	6.6	109
98	Functional interactions in internal translation initiation directed by viral and cellular IRES elements. <i>Journal of General Virology</i> , 2001 , 82, 973-984	4.9	103
97	Structural insights into viral IRES-dependent translation mechanisms. <i>Current Opinion in Virology</i> , 2015 , 12, 113-20	7.5	99
96	IRES interaction with translation initiation factors: functional characterization of novel RNA contacts with eIF3, eIF4B, and eIF4GII. <i>Rna</i> , 2001 , 7, 1213-26	5.8	97
95	The 3Xend of the foot-and-mouth disease virus genome establishes two distinct long-range RNA-RNA interactions with the 5Xend region. <i>Journal of General Virology</i> , 2006 , 87, 3013-3022	4.9	90
94	Relevance of RNA structure for the activity of picornavirus IRES elements. <i>Virus Research</i> , 2009 , 139, 172-82	6.4	89
93	Picornavirus IRES elements: RNA structure and host protein interactions. <i>Virus Research</i> , 2015 , 206, 62-78	7.4	87
92	The impact of RNA structure on picornavirus IRES activity. <i>Trends in Microbiology</i> , 2008 , 16, 230-7	12.4	80
91	Structural organization of a viral IRES depends on the integrity of the GNRA motif. <i>Rna</i> , 2003 , 9, 1333-44	5.8	78
90	IRES-driven translation is stimulated separately by the FMDV 3XNCR and poly(A) sequences. <i>Nucleic Acids Research</i> , 2002 , 30, 4398-405	20.1	75
89	Evidence of reciprocal tertiary interactions between conserved motifs involved in organizing RNA structure essential for internal initiation of translation. <i>Rna</i> , 2006 , 12, 223-34	5.8	74
88	A novel role for Gemin5 in mRNA translation. <i>Nucleic Acids Research</i> , 2009 , 37, 582-90	20.1	72
87	Differential factor requirement to assemble translation initiation complexes at the alternative start codons of foot-and-mouth disease virus RNA. <i>Rna</i> , 2007 , 13, 1366-74	5.8	69

86	Deletion or substitution of the aphthovirus 3'XNCR abrogates infectivity and virus replication. <i>Journal of General Virology</i> , 2001 , 82, 93-101	4.9	67
85	Involvement of the aphthovirus RNA region located between the two functional AUGs in start codon selection. <i>Virology</i> , 1999 , 255, 324-36	3.6	67
84	Long-range RNA interactions between structural domains of the aphthovirus internal ribosome entry site (IRES). <i>Rna</i> , 1999 , 5, 1374-83	5.8	64
83	Increased replicative fitness can lead to decreased drug sensitivity of hepatitis C virus. <i>Journal of Virology</i> , 2014 , 88, 12098-111	6.6	57
82	Foot-and-mouth disease virus infection induces proteolytic cleavage of PTB, eIF3a,b, and PABP RNA-binding proteins. <i>Virology</i> , 2007 , 364, 466-74	3.6	56
81	Riboproteomic analysis of polypeptides interacting with the internal ribosome-entry site element of foot-and-mouth disease viral RNA. <i>Proteomics</i> , 2008 , 8, 4782-90	4.8	54
80	Insights into Structural and Mechanistic Features of Viral IRES Elements. <i>Frontiers in Microbiology</i> , 2017 , 8, 2629	5.7	50
79	Insights into the biology of IRES elements through riboproteomic approaches. <i>Journal of Biomedicine and Biotechnology</i> , 2010 , 2010, 458927		50
78	Primer design for specific diagnosis by PCR of highly variable RNA viruses: typing of foot-and-mouth disease virus. <i>Virology</i> , 1992 , 189, 363-7	3.6	50
77	Gemin5 promotes IRES interaction and translation control through its C-terminal region. <i>Nucleic Acids Research</i> , 2013 , 41, 1017-28	20.1	49
76	Structural basis for the biological relevance of the invariant apical stem in IRES-mediated translation. <i>Nucleic Acids Research</i> , 2011 , 39, 8572-85	20.1	49
75	Cap-independent translation of maize Hsp101. <i>Plant Journal</i> , 2005 , 41, 722-31	6.9	47
74	Cloning and molecular characterization of a telomeric sequence from a temperature-induced Balbiani ring. <i>Chromosoma</i> , 1985 , 92, 108-115	2.8	47
73	Upstream AUGs in embryonic proinsulin mRNA control its low translation level. <i>EMBO Journal</i> , 2003 , 22, 5582-92	13	43
72	Structural analysis provides insights into the modular organization of picornavirus IRES. <i>Virology</i> , 2011 , 409, 251-61	3.6	40
71	Alternative Mechanisms to Initiate Translation in Eukaryotic mRNAs. <i>Comparative and Functional Genomics</i> , 2012 , 2012, 391546		40
70	RNA-binding proteins impacting on internal initiation of translation. <i>International Journal of Molecular Sciences</i> , 2013 , 14, 21705-26	6.3	39
69	Gemin5 proteolysis reveals a novel motif to identify L protease targets. <i>Nucleic Acids Research</i> , 2012 , 40, 4942-53	20.1	37

68	Developmental regulation of a proinsulin messenger RNA generated by intron retention. <i>EMBO Reports</i> , 2005 , 6, 1182-7	6.5	37
67	Sequence of the viral replicase gene from foot-and-mouth disease virus C1-Santa Pau (C-S8). <i>Gene</i> , 1985 , 35, 55-61	3.8	36
66	The RNA-binding protein Gemin5 binds directly to the ribosome and regulates global translation. <i>Nucleic Acids Research</i> , 2016 , 44, 8335-51	20.1	35
65	Identification of novel non-canonical RNA-binding sites in Gemin5 involved in internal initiation of translation. <i>Nucleic Acids Research</i> , 2014 , 42, 5742-54	20.1	35
64	Picornavirus IRES: structure function relationship. <i>Current Pharmaceutical Design</i> , 2004 , 10, 3757-67	3.3	34
63	Characterization of a cyanobacterial RNase P ribozyme recognition motif in the IRES of foot-and-mouth disease virus reveals a unique structural element. <i>Rna</i> , 2007 , 13, 849-59	5.8	32
62	G3BP1 interacts directly with the FMDV IRES and negatively regulates translation. <i>FEBS Journal</i> , 2017 , 284, 3202-3217	5.7	31
61	Innate immune sensor LGP2 is cleaved by the Leader protease of foot-and-mouth disease virus. <i>PLoS Pathogens</i> , 2018 , 14, e1007135	7.6	27
60	RNA structural elements of hepatitis C virus controlling viral RNA translation and the implications for viral pathogenesis. <i>Viruses</i> , 2012 , 4, 2233-50	6.2	27
59	Parameters influencing translational efficiency in aphthovirus IRES-based bicistronic expression vectors. <i>Gene</i> , 1998 , 217, 51-6	3.8	27
58	Internal initiation of translation efficiency in different hepatitis C genotypes isolated from interferon treated patients. <i>Archives of Virology</i> , 1999 , 144, 215-29	2.6	27
57	Long-range RNA-RNA interactions between distant regions of the hepatitis C virus internal ribosome entry site element. <i>Journal of General Virology</i> , 2002 , 83, 1113-1121	4.9	27
56	Molecular evolution of aphthoviruses. <i>Virus Genes</i> , 1995 , 11, 197-207	2.3	25
55	Gemin5: A Multitasking RNA-Binding Protein Involved in Translation Control. <i>Biomolecules</i> , 2015 , 5, 528-44	3.4	24
54	Characterizing the function and structural organization of the 5XtRNA-like motif within the hepatitis C virus quasispecies. <i>Nucleic Acids Research</i> , 2005 , 33, 1487-502	20.1	24
53	3D gene of foot-and-mouth disease virus. Conservation by convergence of average sequences. <i>Journal of Molecular Biology</i> , 1988 , 204, 771-6	6.5	23
52	Magnesium-dependent folding of a picornavirus IRES element modulates RNA conformation and eIF4G interaction. <i>FEBS Journal</i> , 2014 , 281, 3685-700	5.7	22
51	Local RNA flexibility perturbation of the IRES element induced by a novel ligand inhibits viral RNA translation. <i>RNA Biology</i> , 2015 , 12, 555-68	4.8	20

50	Rescue of internal initiation of translation by RNA complementation provides evidence for a distribution of functions between individual IRES domains. <i>Virology</i> , 2009 , 388, 221-9	3.6	20
49	Enhanced IRES activity by the 3XUTR element determines the virulence of FMDV isolates. <i>Virology</i> , 2014 , 448, 303-13	3.6	19
48	IRES elements: features of the RNA structure contributing to their activity. <i>Biochimie</i> , 2002 , 84, 755-63	4.6	19
47	RNA-protein interaction methods to study viral IRES elements. <i>Methods</i> , 2015 , 91, 3-12	4.6	18
46	Using RNA inverse folding to identify IRES-like structural subdomains. <i>RNA Biology</i> , 2013 , 10, 1842-52	4.8	18
45	Internal translation initiation on the foot-and-mouth disease virus IRES is affected by ribosomal stalk conformation. <i>FEBS Letters</i> , 2008 , 582, 3029-32	3.8	18
44	In vivo footprint of a picornavirus internal ribosome entry site reveals differences in accessibility to specific RNA structural elements. <i>Journal of General Virology</i> , 2007 , 88, 3053-3062	4.9	18
43	Response to retreatment with interferon-alpha plus ribavirin in chronic hepatitis C patients is independent of the NS5A gene nucleotide sequence. <i>American Journal of Gastroenterology</i> , 1999 , 94, 2487-95	0.7	17
42	Response to retreatment with interferon-β plus ribavirin in chronic hepatitis C patients is independent of the NS5A gene nucleotide sequence. <i>American Journal of Gastroenterology</i> , 1999 , 94, 2487-2495	0.7	17
41	Modeling Three-Dimensional Structural Motifs of Viral IRES. <i>Journal of Molecular Biology</i> , 2016 , 428, 767-776	6.5	16
40	In-cell SHAPE uncovers dynamic interactions between the untranslated regions of the foot-and-mouth disease virus RNA. <i>Nucleic Acids Research</i> , 2017 , 45, 1416-1432	20.1	16
39	Susceptibility to viral infection is enhanced by stable expression of 3A or 3AB proteins from foot-and-mouth disease virus. <i>Virology</i> , 2008 , 380, 34-45	3.6	15
38	Stable expression of antisense RNAs targeted to the 5Xnon-coding region confers heterotypic inhibition to foot-and-mouth disease virus infection. <i>Journal of General Virology</i> , 2003 , 84, 393-402	4.9	15
37	Effect of expression of the aphthovirus protease 3C on viral infection and gene expression. <i>Virology</i> , 1995 , 212, 111-20	3.6	14
36	Evolutionary conserved motifs constrain the RNA structure organization of picornavirus IRES. <i>FEBS Letters</i> , 2013 , 587, 1353-8	3.8	13
35	Heterotypic inhibition of foot-and-mouth disease virus infection by combinations of RNA transcripts corresponding to the 5Xand 3Xregions. <i>Antiviral Research</i> , 1999 , 44, 133-41	10.8	13
34	Deconstructing internal ribosome entry site elements: an update of structural motifs and functional divergences. <i>Open Biology</i> , 2018 , 8,	7	13
33	Impact of RNA-Protein Interaction Modes on Translation Control: The Versatile Multidomain Protein Gemin5. <i>BioEssays</i> , 2019 , 41, e1800241	4.1	12

32	A Combined ELONA-(RT)qPCR Approach for Characterizing DNA and RNA Aptamers Selected against PCBP-2. <i>Molecules</i> , 2019 , 24,	4.8	12
31	Fingerprinting the junctions of RNA structure by an open-paddlewheel diruthenium compound. <i>Rna</i> , 2016 , 22, 330-8	5.8	12
30	Exploring IRES region accessibility by interference of foot-and-mouth disease virus infectivity. <i>PLoS ONE</i> , 2012 , 7, e41382	3.7	12
29	The landscape of the non-canonical RNA-binding site of Gemin5 unveils a feedback loop counteracting the negative effect on translation. <i>Nucleic Acids Research</i> , 2018 , 46, 7339-7353	20.1	12
28	MDA5 cleavage by the Leader protease of foot-and-mouth disease virus reveals its pleiotropic effect against the host antiviral response. <i>Cell Death and Disease</i> , 2020 , 11, 718	9.8	11
27	Emerging Roles of Gemin5: From snRNPs Assembly to Translation Control. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	10
26	Functional and structural analysis of maize hsp101 IRES. <i>PLoS ONE</i> , 2014 , 9, e107459	3.7	10
25	Rab1b and ARF5 are novel RNA-binding proteins involved in FMDV IRES-driven RNA localization. <i>Life Science Alliance</i> , 2019 , 2,	5.8	10
24	Specific interference between two unrelated internal ribosome entry site elements impairs translation efficiency. <i>FEBS Letters</i> , 2005 , 579, 6803-8	3.8	9
23	Translation and Protein Processing		9
22	Structural basis for the dimerization of Gemin5 and its role in protein recruitment and translation control. <i>Nucleic Acids Research</i> , 2020 , 48, 788-801	20.1	9
21	Ribosome-dependent conformational flexibility changes and RNA dynamics of IRES domains revealed by differential SHAPE. <i>Scientific Reports</i> , 2018 , 8, 5545	4.9	8
20	Designing synthetic RNAs to determine the relevance of structural motifs in picornavirus IRES elements. <i>Scientific Reports</i> , 2016 , 6, 24243	4.9	8
19	RNAiFold2T: Constraint Programming design of thermo-IRES switches. <i>Bioinformatics</i> , 2016 , 32, i360-i368.2		7
18	Genome Organisation, Translation and Replication of Foot-and-mouth Disease Virus RNA		6
17	Thermostability of the Foot-and-Mouth Disease Virus Capsid Is Modulated by Lethal and Viability-Restoring Compensatory Amino Acid Substitutions. <i>Journal of Virology</i> , 2019 , 93,	6.6	5
16	RNA-protein coevolution study of Gemin5 uncovers the role of the PXSS motif of RBS1 domain for RNA binding. <i>RNA Biology</i> , 2020 , 17, 1331-1341	4.8	4
15	Tailoring the switch from IRES-dependent to 5Xend-dependent translation with the RNase P ribozyme. <i>Rna</i> , 2010 , 16, 852-62	5.8	4

14	Genome Organisation, Translation and Replication of Foot-and-Mouth Disease Virus RNA 2019 , 19-52		4
13	Uncovering targets of the Leader protease: Linking RNA-mediated pathways and antiviral defense. <i>Wiley Interdisciplinary Reviews RNA</i> , 2021 , 12, e1645	9.3	4
12	Internal Ribosome Entry Site Elements in Eukaryotic Genomes. <i>Current Genomics</i> , 2004 , 5, 259-277	2.6	3
11	Genome Organisation, Translation and Replication of Foot-and-Mouth Disease Virus RNA 2004 , 21-52		2
10	IRES Elements: Issues, Controversies and Evolutionary Perspectives 2016 , 547-564		1
9	Analysis of theilv-linked genes that determine the morphology of Escherichia coli Cells. <i>Current Microbiology</i> , 1983 , 8, 177-182	2.4	1
8	Structural insights of the pre-let-7 interaction with LIN28B. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2021 , 40, 194-211	1.4	1
7	Picornavirus Variation 1993 , 255-281		1
6	Translation and Protein Processing 141-161		1
5	RNA-Binding Proteins at the Host-Pathogen Interface Targeting Viral Regulatory Elements. <i>Viruses</i> , 2021 , 13,	6.2	1
4	Identification of RNA-Binding Proteins Associated to RNA Structural Elements. <i>Methods in Molecular Biology</i> , 2021 , 2323, 109-119	1.4	1
3	The RBS1 domain of Gemin5 is intrinsically unstructured and interacts with RNA through conserved Arg and aromatic residues. <i>RNA Biology</i> , 2021 , 1-11	4.8	1
2	Autosomal Recessive Cerebellar Atrophy and Spastic Ataxia in Patients With Pathogenic Biallelic Variants in .. <i>Frontiers in Cell and Developmental Biology</i> , 2022 , 10, 783762	5.7	1
1	Riboproteomic Approaches to Understanding IRES Elements 2012 , 103-118		