# EncarnaciÃ³n MartÃ-nez-Salas

List of Publications by Year
in descending order



| 106 | 4,606 | 81900 | 114465 |
|---|---|---|---|
| papers | citations | 39 h-index | 63 g-index |

| 111 | 111 | 111 | 3102 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Autosomal Recessive Cerebellar Atrophy and Spastic Ataxia in Patients With Pathogenic Biallelic Variants in GEMIN5. Frontiers in Cell and Developmental Biology, 2022, 10, 783762. | 3.7 | 10 |
| 2 | Picornavirus translation strategies. FEBS Open Bio, 2022, 12, 1125-1141. | 2.3 | 21 |
| 3 | Functional and structural deficiencies of Gemin5 variants associated with neurological disorders. Life Science Alliance, 2022, 5, e202201403. | 2.8 | 7 |
| 4 | Identification of RNA-Binding Proteins Associated to RNA Structural Elements. Methods in Molecular Biology, 2021, 2323, 109-119. | 0.9 | 1 |
| 5 | Uncovering targets of the Leader protease: Linking RNA â€mediated pathways and antiviral defense. Wiley Interdisciplinary Reviews RNA, 2021, 12, e1645. | 6.4 | 9 |
| 6 | RNA-Binding Proteins at the Host-Pathogen Interface Targeting Viral Regulatory Elements. Viruses, 2021, 13, 952. | 3.3 | 15 |
| 7 | The RBS1 domain of Gemin5 is intrinsically unstructured and interacts with RNA through conserved Arg and aromatic residues. RNA Biology, 2021, 18, 496-506. | 3.1 | 7 |
| 8 | Structural insights of the pre-let-7 interaction with LIN28B. Nucleosides, Nucleotides and Nucleic Acids, 2021, 40, 1-19. | 1.1 | 2 |
| 9 | Structural basis for the dimerization of Gemin5 and its role in protein recruitment and translation control. Nucleic Acids Research, 2020, 48, 788-801. | 14.5 | 19 |
| 10 | MDA5 cleavage by the Leader protease of foot-and-mouth disease virus reveals its pleiotropic effect against the host antiviral response. Cell Death and Disease, 2020, 11, 718. | 6.3 | 15 |
| 11 | RNA-protein coevolution study of Gemin5 uncovers the role of the PXSS motif of RBS1 domain for RNA binding. RNA Biology, 2020, 17, 1331-1341. | 3.1 | 10 |
| 12 | Emerging Roles of Gemin5: From snRNPs Assembly to Translation Control. International Journal of Molecular Sciences, 2020, 21, 3868. | 4.1 | 24 |
| 13 | Thermostability of the Foot-and-Mouth Disease Virus Capsid Is Modulated by Lethal and Viability-Restoring Compensatory Amino Acid Substitutions. Journal of Virology, 2019, 93, . | 3.4 | 9 |
| 14 | Impact of RNAâ€“Protein Interaction Modes on Translation Control: The Versatile Multidomain Protein Gemin5. BioEssays, 2019, 41, e1800241. | 2.5 | 20 |
| 15 | A Combined ELONA-(RT)qPCR Approach for Characterizing DNA and RNA Aptamers Selected against PCBP-2. Molecules, 2019, 24, 1213. | 3.8 | 14 |
| 16 | Genome Organisation, Translation and Replication of Foot-and-Mouth Disease Virus RNA. , 2019, , 19-52. | | 7 |
| 17 | Rab1b and ARF5 are novel RNA-binding proteins involved in FMDV IRESâ€“driven RNA localization. Life Science Alliance, 2019, 2, e201800131. | 2.8 | 14 |
| 18 | Ribosome-dependent conformational flexibility changes and RNA dynamics of IRES domains revealed by differential SHAPE. Scientific Reports, 2018, 8, 5545. | 3.3 | 18 |

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| 19 | Deconstructing internal ribosome entry site elements: an update of structural motifs and functional divergences. Open Biology, 2018, 8, 180155. | 3.6 | 15 |
| 20 | The landscape of the non-canonical RNA-binding site of Gemin5 unveils a feedback loop counteracting the negative effect on translation. Nucleic Acids Research, 2018, 46, 7339-7353. | 14.5 | 23 |
| 21 | Innate immune sensor LGP2 is cleaved by the Leader protease of foot-and-mouth disease virus. PLoS Pathogens, 2018, 14, e1007135. | 4.7 | 35 |
| 22 | In-cell SHAPE uncovers dynamic interactions between the untranslated regions of the foot-and-mouth disease virus RNA. Nucleic Acids Research, 2017, 45, gkw795. | 14.5 | 28 |
| 23 | G3<scp>BP</scp>1 interacts directly with the <scp>FMDV IRES</scp> and negatively regulates translation. FEBS Journal, 2017, 284, 3202-3217. | 4.7 | 42 |
| 24 | Insights into Structural and Mechanistic Features of Viral IRES Elements. Frontiers in Microbiology, 2017, 8, 2629. | 3.5 | 100 |
| 25 | Genome Organisation, Translation and Replication of Foot-and-mouth Disease Virus RNA. , 2017, , 13-42. | | 6 |
| 26 | IRES Elements: Issues, Controversies and Evolutionary Perspectives. , 2016, , 547-564. | | 2 |
| 27 | RNAiFold2T: Constraint Programming design of thermo-IRES switches. Bioinformatics, 2016, 32, i360-i368. | 4.1 | 8 |
| 28 | The RNA-binding protein Gemin5 binds directly to the ribosome and regulates global translation. Nucleic Acids Research, 2016, 44, 8335-8351. | 14.5 | 54 |
| 29 | Designing synthetic RNAs to determine the relevance of structural motifs in picornavirus IRES elements. Scientific Reports, 2016, 6, 24243. | 3.3 | 8 |
| 30 | Fingerprinting the junctions of RNA structure by an open-paddlewheel diruthenium compound. Rna, 2016, 22, 330-338. | 3.5 | 19 |
| 31 | Modeling Three-Dimensional Structural Motifs of Viral IRES. Journal of Molecular Biology, 2016, 428, 767-776. | 4.2 | 23 |
| 32 | Gemin5: A Multitasking RNA-Binding Protein Involved in Translation Control. Biomolecules, 2015, 5, 528-544. | 4.0 | 38 |
| 33 | Structural insights into viral IRES-dependent translation mechanisms. Current Opinion in Virology, 2015, 12, 113-120. | 5.4 | 132 |
| 34 | Picornavirus IRES elements: RNA structure and host protein interactions. Virus Research, 2015, 206, 62-73. | 2.2 | 110 |
| 35 | Local RNA flexibility perturbation of the IRES element induced by a novel ligand inhibits viral RNA translation. RNA Biology, 2015, 12, 555-568. | 3.1 | 25 |
| 36 | RNAâ€“protein interaction methods to study viral IRES elements. Methods, 2015, 91, 3-12. | 3.8 | 24 |

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| 37 | Functional and Structural Analysis of Maize Hsp101 IRES. PLoS ONE, 2014, 9, e107459. | 2.5 | 11 |
| 38 | Identification of novel non-canonical RNA-binding sites in Gemin5 involved in internal initiation of translation. Nucleic Acids Research, 2014, 42, 5742-5754. | 14.5 | 47 |
| 39 | Magnesiumâ€dependent folding of a picornavirus <scp>IRES</scp> element modulates <scp>RNA</scp> conformation and eIF4G interaction. FEBS Journal, 2014, 281, 3685-3700. | 4.7 | 26 |
| 40 | Increased Replicative Fitness Can Lead to Decreased Drug Sensitivity of Hepatitis C Virus. Journal of Virology, 2014, 88, 12098-12111. | 3.4 | 74 |
| 41 | Enhanced IRES activity by the 3â€²UTR element determines the virulence of FMDV isolates. Virology, 2014, 448, 303-313. | 2.4 | 28 |
| 42 | RNA-Binding Proteins Impacting on Internal Initiation of Translation. International Journal of Molecular Sciences, 2013, 14, 21705-21726. | 4.1 | 50 |
| 43 | Evolutionary conserved motifs constrain the RNA structure organization of picornavirus IRES. FEBS Letters, 2013, 587, 1353-1358. | 2.8 | 16 |
| 44 | Gemin5 promotes IRES interaction and translation control through its C-terminal region. Nucleic Acids Research, 2013, 41, 1017-1028. | 14.5 | 55 |
| 45 | Using RNA inverse folding to identify IRES-like structural subdomains. RNA Biology, 2013, 10, 1842-1852. | 3.1 | 20 |
| 46 | Gemin5 proteolysis reveals a novel motif to identify L protease targets. Nucleic Acids Research, 2012, 40, 4942-4953. | 14.5 | 47 |
| 47 | Alternative Mechanisms to Initiate Translation in Eukaryotic mRNAs. Comparative and Functional Genomics, 2012, 2012, 1-12. | 2.0 | 45 |
| 48 | RNA Structural Elements of Hepatitis C Virus Controlling Viral RNA Translation and the Implications for Viral Pathogenesis. Viruses, 2012, 4, 2233-2250. | 3.3 | 29 |
| 49 | Exploring IRES Region Accessibility by Interference of Foot-and-Mouth Disease Virus Infectivity. PLoS ONE, 2012, 7, e41382. | 2.5 | 12 |
| 50 | Riboproteomic Approaches to Understanding IRES Elements. , 2012, , 103-118. | | 0 |
| 51 | Structural analysis provides insights into the modular organization of picornavirus IRES. Virology, 2011, 409, 251-261. | 2.4 | 46 |
| 52 | Structural basis for the biological relevance of the invariant apical stem in IRES-mediated translation. Nucleic Acids Research, 2011, 39, 8572-8585. | 14.5 | 58 |
| 53 | Tailoring the switch from IRES-dependent to 5'-end-dependent translation with the RNase P ribozyme. Rna, 2010, 16, 852-862. | 3.5 | 4 |
| 54 | Insights into the Biology of IRES Elements through Riboproteomic Approaches. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-12. | 3.0 | 57 |

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| 55 | A novel role for Gemin5 in mRNA translation. Nucleic Acids Research, 2009, 37, 582-590. | 14.5 | 92 |
| 56 | Rescue of internal initiation of translation by RNA complementation provides evidence for a distribution of functions between individual IRES domains. Virology, 2009, 388, 221-229. | 2.4 | 21 |
| 57 | Relevance of RNA structure for the activity of picornavirus IRES elements. Virus Research, 2009, 139, 172-182. | 2.2 | 104 |
| 58 | Preface. Virus Research, 2009, 139, 135-136. | 2.2 | 0 |
| 59 | Riboproteomic analysis of polypeptides interacting with the internal ribosomeâ€entry site element of footâ€andâ€mouth disease viral RNA. Proteomics, 2008, 8, 4782-4790. | 2.2 | 60 |
| 60 | Susceptibility to viral infection is enhanced by stable expression of 3A or 3AB proteins from foot-and-mouth disease virus. Virology, 2008, 380, 34-45. | 2.4 | 17 |
| 61 | Internal translation initiation on the footâ€andâ€mouth disease virus IRES is affected by ribosomal stalk conformation. FEBS Letters, 2008, 582, 3029-3032. | 2.8 | 18 |
| 62 | The impact of RNA structure on picornavirus IRES activity. Trends in Microbiology, 2008, 16, 230-237. | 7.7 | 91 |
| 63 | New insights into internal ribosome entry site elements relevant for viral gene expression. Journal of General Virology, 2008, 89, 611-626. | 2.9 | 120 |
| 64 | In vivo footprint of a picornavirus internal ribosome entry site reveals differences in accessibility to specific RNA structural elements. Journal of General Virology, 2007, 88, 3053-3062. | 2.9 | 19 |
| 65 | Differential factor requirement to assemble translation initiation complexes at the alternative start codons of foot-and-mouth disease virus RNA. Rna, 2007, 13, 1366-1374. | 3.5 | 79 |
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| 67 | Foot-and-mouth disease virus infection induces proteolytic cleavage of PTB, eIF3a,b, and PABP RNA-binding proteins. Virology, 2007, 364, 466-474. | 2.4 | 62 |
| 68 | Evidence of reciprocal tertiary interactions between conserved motifs involved in organizing RNA structure essential for internal initiation of translation. Rna, 2006, 12, 223-234. | 3.5 | 78 |
| 69 | The 3â€² end of the foot-and-mouth disease virus genome establishes two distinct long-range RNAâ€“RNA interactions with the 5â€² end region. Journal of General Virology, 2006, 87, 3013-3022. | 2.9 | 104 |
| 70 | Cap-independent translation of maize Hsp101. Plant Journal, 2005, 41, 722-731. | 5.7 | 54 |
| 71 | Developmental regulation of a proinsulin messenger RNA generated by intron retention. EMBO Reports, 2005, 6, 1182-1187. | 4.5 | 44 |
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| 74 | Internal Ribosome Entry Site Elements in Eukaryotic Genomes. Current Genomics, 2004, 5, 259-277. | 1.6 | 3 |
| 75 | Genome Organisation, Translation and Replication of Foot-and-Mouth Disease Virus RNA. , 2004, , 21-52. | | 2 |
| 76 | Picornavirus IRES: Structure Function Relationship. Current Pharmaceutical Design, 2004, 10, 3757-3767. | 1.9 | 38 |
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| 84 | Deletion or substitution of the aphthovirus 3â€² NCR abrogates infectivity and virus replication. Journal of General Virology, 2001, 82, 93-101. | 2.9 | 72 |
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| 88 | Response To Retreatment With Interferon-Î± Plus Ribavirin in Chronic Hepatitis C Patients Is Independent of The Ns5a Gene Nucleotide Sequence. American Journal of Gastroenterology, 1999, 94, 2487-2495. | 0.4 | 17 |
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| 91 | Internal initiation of translation efficiency in different hepatitis C genotypes isolated from interferon treated patients. Archives of Virology, 1999, 144, 215-229. | 2.1 | 29 |
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| 93 | Response to retreatment with interferon-Î± plus ribavirin in chronic hepatitis C patients is independent of the NS5A gene nucleotide sequence. American Journal of Gastroenterology, 1999, 94, 2487-2495. | 0.4 | 20 |
| 94 | Parameters influencing translational efficiency in aphthovirus IRES-based bicistronic expression vectors. Gene, 1998, 217, 51-56. | 2.2 | 27 |
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| 101 | Cloning and molecular characterization of a telomeric sequence from a temperature-induced Balbiani ring. Chromosoma, 1985, 92, 108-115. | 2.2 | 53 |
| 102 | The quasispecies (extremely heterogeneous) nature of viral RNA genome populations: biological relevance â€" a review. Gene, 1985, 40, 1-8. | 2.2 | 484 |
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| 106 | Translation and Protein Processing. , 0, , 141-161. | | 4 |