

# Conserved Pseudoknots in lncRNA MEG3 Are Essential

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Identifying Structural Domains and Conserved Regions in the Long Non-Coding RNA lncTCF7. <i>International Journal of Molecular Sciences</i> , 2019, 20, 4770.	1.8	9
2	Functional Conservation of lncRNA JPX Despite Sequence and Structural Divergence. <i>Journal of Molecular Biology</i> , 2020, 432, 283-300.	2.0	33
3	Integrative Structural Biology of Protein-RNA Complexes. <i>Structure</i> , 2020, 28, 6-28.	1.6	33
4	Mechanism of efficient double-strand break repair by a long non-coding RNA. <i>Nucleic Acids Research</i> , 2020, 48, 10953-10972.	6.5	43
5	The molecular structure of long non-coding RNAs: emerging patterns and functional implications. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2020, 55, 662-690.	2.3	51
6	From structure to function: Route to understanding lncRNA mechanism. <i>BioEssays</i> , 2020, 42, e2000027.	1.2	48
7	Long noncoding RNA functionality in imprinted domain regulation. <i>PLoS Genetics</i> , 2020, 16, e1008930.	1.5	44
8	The lncRNA Growth Arrest Specific 5 Regulates Cell Survival via Distinct Structural Modules with Independent Functions. <i>Cell Reports</i> , 2020, 32, 107933.	2.9	21
9	lncRNA DLC2-AS1 as a Novel Biomarker in Lung Adenocarcinoma. <i>Cancers</i> , 2020, 12, 2080.	1.7	7
10	Non-coding RNAs, metabolic stress and adaptive mechanisms in cancer. <i>Cancer Letters</i> , 2020, 491, 60-69.	3.2	10
11	Non-coding RNAs, guardians of the p53 galaxy. <i>Seminars in Cancer Biology</i> , 2021, 75, 72-83.	4.3	27
12	Polymorphism of lncRNAs in breast cancer: Meta-analysis shows no association with susceptibility. <i>Journal of Gene Medicine</i> , 2020, 22, e3271.	1.4	7
13	Discoveries for Long Non-Coding RNA Dynamics in Traumatic Brain Injury. <i>Biology</i> , 2020, 9, 458.	1.3	8
14	The lncRNA Toolkit: Databases and In Silico Tools for lncRNA Analysis. <i>Non-coding RNA</i> , 2020, 6, 49.	1.3	32
15	Non-coding RNAs as Regulators of Cellular Senescence in Idiopathic Pulmonary Fibrosis and Chronic Obstructive Pulmonary Disease. <i>Frontiers in Medicine</i> , 2020, 7, 603047.	1.2	13
16	Emerging roles of long non-coding RNAs in the p53 network. <i>RNA Biology</i> , 2020, 17, 1648-1656.	1.5	15
17	An evolutionarily conserved RNA structure in the functional core of the lincRNA Cyrano. <i>Rna</i> , 2020, 26, 1234-1246.	1.6	13
18	Yeast Telomerase RNA Flexibly Scaffolds Protein Subunits: Results and Repercussions. <i>Molecules</i> , 2020, 25, 2750.	1.7	8

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19	Expression of ncRNAs on the DLK1-DIO3 Locus Is Associated With Basal and Mesenchymal Phenotype in Breast Epithelial Progenitor Cells. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 461.	1.8	14
20	Long non-coding RNAs and MYC association in hematological malignancies. <i>Annals of Hematology</i> , 2020, 99, 2231-2242.	0.8	9
21	Long non-coding RNAs in development and disease: conservation to mechanisms. <i>Journal of Pathology</i> , 2020, 250, 480-495.	2.1	128
22	Pathobiology of pulmonary artery hypertension: role of long non-coding RNAs. <i>Cardiovascular Research</i> , 2020, 116, 1937-1947.	1.8	41
23	Noncoding RNAs in Vascular Diseases. <i>Circulation Research</i> , 2020, 126, 1127-1145.	2.0	81
24	Overlapping mechanisms of lncRNA and expanded microsatellite RNA. <i>Wiley Interdisciplinary Reviews RNA</i> , 2021, 12, e1634.	3.2	8
25	Regulation of mRNA stability by RBPs and noncoding RNAs contributing to the pathogenicity of Th17 cells. <i>RNA Biology</i> , 2021, 18, 647-656.	1.5	9
27	Functional non-coding RNAs in vascular diseases. <i>FEBS Journal</i> , 2021, 288, 6315-6330.	2.2	11
28	Gene regulation by long non-coding RNAs and its biological functions. <i>Nature Reviews Molecular Cell Biology</i> , 2021, 22, 96-118.	16.1	2,319
29	lncRNAs in development and differentiation: from sequence motifs to functional characterization. <i>Development (Cambridge)</i> , 2021, 148, .	1.2	30
30	lncRNA GATA3-miR-30b-5p-Tex10 axis modulates tumorigenesis in pancreatic cancer. <i>Oncology Reports</i> , 2021, 45, .	1.2	13
31	Long, Noncoding RNA Dysregulation in Glioblastoma. <i>Cancers</i> , 2021, 13, 1604.	1.7	18
32	P53 long noncoding RNA regulatory network in cancer development. <i>Cell Biology International</i> , 2021, 45, 1583-1598.	1.4	8
33	Decoding lncRNAs. <i>Cancers</i> , 2021, 13, 2643.	1.7	19
34	Roles of noncoding RNAs in the initiation and progression of myocardial ischemia-reperfusion injury. <i>Epigenomics</i> , 2021, 13, 715-743.	1.0	9
35	Long Noncoding RNAs at the Crossroads of Cell Cycle and Genome Integrity. <i>Trends in Genetics</i> , 2021, 37, 528-546.	2.9	23
36	An exon-biased biophysical approach and NMR spectroscopy define the secondary structure of a conserved helical element within the HOTAIR long non-coding RNA. <i>Journal of Structural Biology</i> , 2021, 213, 107728.	1.3	3
37	Potential Therapeutic Targeting of lncRNAs in Cholesterol Homeostasis. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 688546.	1.1	9

#	ARTICLE	IF	CITATIONS
38	iDRIP for the systematic discovery of proteins bound directly to noncoding RNA. <i>Nature Protocols</i> , 2021, 16, 3672-3694.	5.5	12
39	Enhancing Gonadotrope Gene Expression Through Regulatory lncRNAs. <i>Endocrinology</i> , 2021, 162, .	1.4	3
41	LncRNA <i>VEAL2</i> regulates PRKCB2 to modulate endothelial permeability in diabetic retinopathy. <i>EMBO Journal</i> , 2021, 40, e107134.	3.5	32
42	Computer-aided design of RNA-targeted small molecules: A growing need in drug discovery. <i>CheM</i> , 2021, 7, 2965-2988.	5.8	39
43	Long non-coding RNA exploration for mesenchymal stem cell characterisation. <i>BMC Genomics</i> , 2021, 22, 412.	1.2	3
44	RNA structure probing uncovers RNA structure-dependent biological functions. <i>Nature Chemical Biology</i> , 2021, 17, 755-766.	3.9	59
45	The role of non-coding RNAs in drug resistance of oral squamous cell carcinoma and therapeutic potential. <i>Cancer Communications</i> , 2021, 41, 981-1006.	3.7	59
47	Lnc-STYK1-2 regulates bladder cancer cell proliferation, migration, and invasion by targeting miR-146b-5p expression and AKT/STAT3/NF- $\kappa$ B signaling. <i>Cancer Cell International</i> , 2021, 21, 408.	1.8	12
48	Regulatory Mechanisms of LncRNAs in Cancer Glycolysis: Facts and Perspectives. <i>Cancer Management and Research</i> , 2021, Volume 13, 5317-5336.	0.9	20
50	Upregulated LINC01667 Expression Is Correlated With Poor Prognosis in Hepatocellular Carcinoma. <i>Frontiers in Oncology</i> , 2021, 11, 650173.	1.3	4
51	Exploring chromatin structural roles of non-coding RNAs at imprinted domains. <i>Biochemical Society Transactions</i> , 2021, 49, 1867-1879.	1.6	10
52	Epigenetic Regulation of the Vascular Endothelium by Angiogenic LncRNAs. <i>Frontiers in Genetics</i> , 2021, 12, 668313.	1.1	4
53	Long non-coding RNAs associated with infection and vaccine-induced immunity. <i>Essays in Biochemistry</i> , 2021, 65, 657-669.	2.1	5
54	Long noncoding RNA Meg3 mediates ferroptosis induced by oxygen and glucose deprivation combined with hyperglycemia in rat brain microvascular endothelial cells, through modulating the p53/GPX4 axis. <i>European Journal of Histochemistry</i> , 2021, 65, .	0.6	35
55	Screening strategies for identifying RNA- and ribonucleoprotein-targeted compounds. <i>Trends in Pharmacological Sciences</i> , 2021, 42, 758-771.	4.0	12
56	Long Non-Coding RNA Regulation of Epigenetics in Vascular Cells. <i>Non-coding RNA</i> , 2021, 7, 62.	1.3	6
57	Maternally expressed 3 inhibits the biological activity of oral squamous cell carcinoma SCC25 and CAL27 cell lines. <i>Oncology Letters</i> , 2021, 22, 784.	0.8	2
59	The role of noncoding RNAs in pituitary adenoma. <i>Epigenomics</i> , 2021, 13, 1421-1437.	1.0	6

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60	A cross-nearest neighbor/Monte Carlo algorithm for single-molecule localization microscopy defines interactions between p53, Mdm2, and MEG3. <i>Journal of Biological Chemistry</i> , 2021, 296, 100540.	1.6	3
61	LncRNA-Gm2044 is transcriptionally activated by A-MYB and regulates Sycp1 expression as a miR-335-3p sponge in mouse spermatocyte-derived GC-2spd(ts) cells. <i>Differentiation</i> , 2020, 114, 49-57.	1.0	11
62	Visualizing the functional 3D shape and topography of long noncoding RNAs by single-particle atomic force microscopy and in-solution hydrodynamic techniques. <i>Nature Protocols</i> , 2020, 15, 2107-2139.	5.5	14
63	&lt;p&gt;Aptamer-Functionalized Dendrimer Delivery of Plasmid-Encoding lncRNA &lt;em&gt;MEG3&lt;/em&gt; Enhances Gene Therapy in Castration-Resistant Prostate Cancer&lt;/p&gt;. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 10305-10320.	3.3	34
64	<i>HAR1</i>: an insight into lncRNA genetic evolution. <i>Epigenomics</i> , 2021, 13, 1831-1843.	1.0	12
66	Getting to the bottom of lncRNA mechanism: structureâ€“function relationships. <i>Mammalian Genome</i> , 2022, 33, 343-353.	1.0	15
68	Long Non-coding RNAs Diversity in Form and Function: From Microbes to Humans. <i>RNA Technologies</i> , 2020, , 1-57.	0.2	0
70	The Role of Non-coding RNAs in the Pathogenesis of Glial Tumors. <i>Acta Naturae</i> , 2021, 13, 38-51.	1.7	0
71	Noncoding RNAs: biology and applicationsâ€“a Keystone Symposia report. <i>Annals of the New York Academy of Sciences</i> , 2021, 1506, 118-141.	1.8	13
72	The Role of Non-coding RNAs in the Pathogenesis of Glial Tumors. <i>Acta Naturae</i> , 2021, 13, 38-51.	1.7	3
73	lncRNA NR2F2-AS1 inhibits the methylation of miR-494 to regulate oral squamous cell carcinoma cell proliferation. <i>Archives of Oral Biology</i> , 2022, 134, 105316.	0.8	1
74	TransSNPs: A class of functional SNPs affecting mRNA translation potential revealed by fraction-based allelic imbalance. <i>IScience</i> , 2021, 24, 103531.	1.9	2
75	Understanding lncRNAâ€“protein assemblies with imaging and single-molecule approaches. <i>Current Opinion in Genetics and Development</i> , 2022, 72, 128-137.	1.5	6
76	Discovering functional motifs in long noncoding RNAs. <i>Wiley Interdisciplinary Reviews RNA</i> , 2022, , e1708.	3.2	10
77	Identification of a Long Noncoding RNA (lncPRDM16) Inhibiting Preadipocyte Proliferation in the Chicken. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 1335-1345.	2.4	3
78	The multiple molecular dimensions of long noncoding RNAs that regulate gene expression and tumorigenesis. <i>Current Opinion in Oncology</i> , 2022, 34, 141-147.	1.1	5
79	E2F transcription factor 1/small nucleolar RNA host gene 18/microRNA-338-5p/forkhead box D1: an important regulatory axis in glioma progression. <i>Bioengineered</i> , 2022, 13, 418-430.	1.4	5
80	Identification and targeting of G-quadruplex structures in <i>MALAT1</i> long non-coding RNA. <i>Nucleic Acids Research</i> , 2022, 50, 397-410.	6.5	17

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81	Towards Molecular Mechanism in Long Non-coding RNAs: Linking Structure and Function. <i>Advances in Experimental Medicine and Biology</i> , 2022, 1363, 23-32.	0.8	1
82	Distinct MUNC lncRNA structural domains regulate transcription of different promyogenic factors. <i>Cell Reports</i> , 2022, 38, 110361.	2.9	13
83	Transcriptome and chromatin alterations in social fear indicate association of MEG3 with successful extinction of fear. <i>Molecular Psychiatry</i> , 2022, 27, 4064-4076.	4.1	3
84	Structure–function relationship of long noncoding <i>lncRNAs</i> : Advances and challenges. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2022, 12, .	6.2	0
86	Secondary structure prediction of long noncoding RNA: review and experimental comparison of existing approaches. <i>Briefings in Bioinformatics</i> , 2022, 23, .	3.2	11
87	Transcriptome analysis from muscle biopsy tissues in late-onset myopathies identifies potential biomarkers correlating to muscle pathology. <i>Neuromuscular Disorders</i> , 2022, , .	0.3	0
88	KnotAli: informed energy minimization through the use of evolutionary information. <i>BMC Bioinformatics</i> , 2022, 23, 159.	1.2	3
89	Substoichiometric action of long noncoding RNAs. <i>Nature Cell Biology</i> , 2022, 24, 608-615.	4.6	31
91	The Role of lncRNAs in the Regulation of Radiotherapy Sensitivity in Cervical Cancer. <i>Frontiers in Oncology</i> , 2022, 12, .	1.3	4
94	lncRNA JPX Promotes Esophageal Squamous Cell Carcinoma Progression by Targeting miR-516b-5p/VEGFA Axis. <i>Cancers</i> , 2022, 14, 2713.	1.7	4
95	Mechanisms and functions of long noncoding RNAs in intervertebral disc degeneration. <i>Pathology Research and Practice</i> , 2022, 235, 153959.	1.0	4
96	The Association of MEG3 lncRNA with Nuclear Speckles in Living Cells. <i>Cells</i> , 2022, 11, 1942.	1.8	3
97	Shedding light on the dark genome: Drugging long non-coding RNA. <i>Future Drug Discovery</i> , 0, , .	0.8	0
99	Signaling by lncRNAs: Structure, Cellular Homeostasis, and Disease Pathology. <i>Cells</i> , 2022, 11, 2517.	1.8	15
100	Noncoding RNAs and RNA-binding proteins: emerging governors of liver physiology and metabolic diseases. <i>American Journal of Physiology - Cell Physiology</i> , 2022, 323, C1003-C1017.	2.1	8
101	CRHR1 mediates the transcriptional expression of pituitary hormones and their receptors under hypoxia. <i>Frontiers in Endocrinology</i> , 0, 13, .	1.5	0
102	Long Non-Coding RNAs: Tools for Understanding and Targeting Cancer Pathways. <i>Cancers</i> , 2022, 14, 4760.	1.7	8
103	Integrative Analysis Reveals a Nine TP53 Pathway-Related lncRNA Prognostic Signature in Endometrial Cancer. <i>BioMed Research International</i> , 2022, 2022, 1-18.	0.9	1

#	ARTICLE	IF	CITATIONS
104	Probing the dynamic RNA structurome and its functions. <i>Nature Reviews Genetics</i> , 2023, 24, 178-196.	7.7	42
105	Pleiotropic fitness effects of the lncRNA Uhg4 in <i>Drosophila melanogaster</i> . <i>BMC Genomics</i> , 2022, 23, .	1.2	0
106	The Biological Roles and Molecular Mechanisms of Long Non-Coding RNA MEG3 in the Hallmarks of Cancer. <i>Cancers</i> , 2022, 14, 6032.	1.7	9
107	Macrophage migration inhibitory factor protects bone marrow mesenchymal stem cells from hypoxia/ischemia-induced apoptosis by regulating lncRNA MEG3. <i>Journal of Zhejiang University: Science B</i> , 2022, 23, 989-1001.	1.3	1
108	RNA out of the mist. <i>Trends in Genetics</i> , 2023, 39, 187-207.	2.9	6
109	Thirteen dubious ways to detect conserved structural <scp>RNAs</scp>. <i>IUBMB Life</i> , 2023, 75, 471-492.	1.5	8
110	Long noncoding <scp>RNA</scp> <i>MEG3</i> inhibits oral squamous cell carcinoma progression via <scp>GATA3</scp>. <i>FEBS Open Bio</i> , 2023, 13, 195-208.	1.0	6
111	Long non-coding RNAs: definitions, functions, challenges and recommendations. <i>Nature Reviews Molecular Cell Biology</i> , 2023, 24, 430-447.	16.1	313
112	Rock, scissors, paper: How RNA structure informs function. <i>Plant Cell</i> , 2023, 35, 1671-1707.	3.1	14
115	lncRNA MEG3 Promotes PDK4/GSK-3 $\beta$ -Catenin Axis in MEFs by Targeting miR-532-5p. <i>Oxidative Medicine and Cellular Longevity</i> , 2023, 2023, 1-27.	1.9	1
124	p53-regulated lncRNAs in cancers: from proliferation and metastasis to therapy. <i>Cancer Gene Therapy</i> , 2023, 30, 1456-1470.	2.2	2
125	Epigenetic inhibitors and their role in cancer therapy. <i>International Review of Cell and Molecular Biology</i> , 2023, , 211-251.	1.6	2
128	Probing Techniques of Secondary and Tertiary RNA Structure and a Case Study for RNA G-Quadruplexes. <i>RNA Technologies</i> , 2023, , 159-182.	0.2	0
129	Long non-coding RNAs in cardiac hypertrophy and heart failure: functions, mechanisms and clinical prospects. <i>Nature Reviews Cardiology</i> , 0, , .	6.1	0
132	Transcription regulation by long non-coding RNAs: mechanisms and disease relevance. <i>Nature Reviews Molecular Cell Biology</i> , 0, , .	16.1	1
133	Kagami Ogata syndrome: a small deletion refines critical region for imprinting. <i>Npj Genomic Medicine</i> , 2024, 9, .	1.7	0
134	Nanotherapeutic approaches for delivery of long non-coding RNAs: an updated review with emphasis on cancer. <i>Nanoscale</i> , 2024, 16, 3881-3914.	2.8	0