

# Tetsuro Hirose

## List of Publications by Year in descending order

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100  
papers

9,424  
citations

41344

49  
h-index

42399

92  
g-index

115  
all docs

115  
docs citations

115  
times ranked

8967  
citing authors

#	ARTICLE	IF	CITATIONS
1	MEN $\mu$ / $\mu^2$ noncoding RNAs are essential for structural integrity of nuclear paraspeckles. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2525-2530.	7.1	532
2	The oestrogen receptor alpha-regulated lncRNA NEAT1 is a critical modulator of prostate cancer. Nature Communications, 2014, 5, 5383.	12.8	522
3	Functional Domains of NEAT1 Architectural lncRNA Induce Paraspeckle Assembly through Phase Separation. Molecular Cell, 2018, 70, 1038-1053.e7.	9.7	429
4	p53 induces formation of NEAT1 lncRNA-containing paraspeckles that modulate replication stress response and chemosensitivity. Nature Medicine, 2016, 22, 861-868.	30.7	372
5	NEAT1 long noncoding RNA regulates transcription via protein sequestration within subnuclear bodies. Molecular Biology of the Cell, 2014, 25, 169-183.	2.1	371
6	Alternative 3' end processing of long noncoding RNA initiates construction of nuclear paraspeckles. EMBO Journal, 2012, 31, 4020-4034.	7.8	360
7	Paraspeckles: Where Long Noncoding RNA Meets Phase Separation. Trends in Biochemical Sciences, 2018, 43, 124-135.	7.5	315
8	Malat1 is not an essential component of nuclear speckles in mice. Rna, 2012, 18, 1487-1499.	3.5	297
9	Paraspeckles are subpopulation-specific nuclear bodies that are not essential in mice. Journal of Cell Biology, 2011, 193, 31-39.	5.2	270
10	Prion-like domains in RNA binding proteins are essential for building subnuclear paraspeckles. Journal of Cell Biology, 2015, 210, 529-539.	5.2	269
11	Structural, super-resolution microscopy analysis of paraspeckle nuclear body organization. Journal of Cell Biology, 2016, 214, 817-830.	5.2	262
12	The lncRNA <i>Neat1</i> is required for corpus luteum formation and the establishment of pregnancy in a subpopulation of mice. Development (Cambridge), 2014, 141, 4618-4627.	2.5	229
13	The long non-coding RNA nuclear-enriched abundant transcript 1_2 induces paraspeckle formation in the motor neuron during the early phase of amyotrophic lateral sclerosis. Molecular Brain, 2013, 6, 31.	2.6	214
14	Identification of <i>cis</i> - and <i>trans</i> -acting factors involved in the localization of MALAT-1 noncoding RNA to nuclear speckles. Rna, 2012, 18, 738-751.	3.5	202
15	EVOLUTION AND MECHANISM OF TRANSLATION IN CHLOROPLASTS. Annual Review of Genetics, 1998, 32, 437-459.	7.6	188
16	Paraspeckle formation during the biogenesis of long non-coding RNAs. RNA Biology, 2013, 10, 456-461.	3.1	180
17	<i>Neat1</i> is a p53-inducible lincRNA essential for transformation suppression. Genes and Development, 2017, 31, 1095-1108.	5.9	179
18	The long noncoding RNA Neat1 is required for mammary gland development and lactation. Rna, 2014, 20, 1844-1849.	3.5	177

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19	Involvement of a site-specific trans-acting factor and a common RNA-binding protein in the editing of chloroplast mRNAs: development of a chloroplast in vitro RNA editing system. <i>EMBO Journal</i> , 2001, 20, 1144-1152.	7.8	159
20	Architectural RNAs (arcRNAs): A class of long noncoding RNAs that function as the scaffold of nuclear bodies. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2016, 1859, 139-146.	1.9	142
21	SWI/SNF chromatin-remodeling complexes function in noncoding RNA-dependent assembly of nuclear bodies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4304-4309.	7.1	136
22	Long noncoding RNA <i>HOTAIR</i> is relevant to cellular proliferation, invasiveness, and clinical relapse in small cell lung cancer. <i>Cancer Medicine</i> , 2014, 3, 632-642.	2.8	130
23	Both RNA editing and RNA cleavage are required for translation of tobacco chloroplast <i>ndhD</i> mRNA: a possible regulatory mechanism for the expression of a chloroplast operon consisting of functionally unrelated genes. <i>EMBO Journal</i> , 1997, 16, 6804-6811.	7.8	127
24	Creation of a novel protein-coding region at the RNA level in black pine chloroplasts: the pattern of RNA editing in the gymnosperm chloroplast is different from that in angiosperms.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 8766-8770.	7.1	112
25	Splicing-Dependent and -Independent Modes of Assembly for Intron-Encoded Box C/D snoRNPs in Mammalian Cells. <i>Molecular Cell</i> , 2003, 12, 113-123.	9.7	110
26	Functional annotation of human long noncoding RNAs via molecular phenotyping. <i>Genome Research</i> , 2020, 30, 1060-1072.	5.5	109
27	Unusual semi-extractability as a hallmark of nuclear body-associated architectural noncoding RNAs. <i>EMBO Journal</i> , 2017, 36, 1447-1462.	7.8	107
28	Long noncoding RNA <i>NEAT1</i> (nuclear paraspeckle assembly transcript 1) is critical for phenotypic switching of vascular smooth muscle cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8660-E8667.	7.1	107
29	RNA editing sites in tobacco chloroplast transcripts: editing as a possible regulator of chloroplast RNA polymerase activity. <i>Molecular Genetics and Genomics</i> , 1999, 262, 462-467.	2.4	105
30	Lnc RNA $\alpha$ -dependent nuclear stress bodies promote intron retention through SR protein phosphorylation. <i>EMBO Journal</i> , 2020, 39, e102729.	7.8	99
31	Efficient oligonucleotide-mediated degradation of nuclear noncoding RNAs in mammalian cultured cells. <i>Rna</i> , 2009, 15, 1578-1587.	3.5	92
32	A Spliceosomal Intron Binding Protein, IBP160, Links Position-Dependent Assembly of Intron-Encoded Box C/D snoRNP to Pre-mRNA Splicing. <i>Molecular Cell</i> , 2006, 23, 673-684.	9.7	91
33	Position within the host intron is critical for efficient processing of box C/D snoRNAs in mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 12914-12919.	7.1	89
34	Long noncoding RNA <i>NEAT1</i> modulates immune cell functions and is suppressed in early onset myocardial infarction patients. <i>Cardiovascular Research</i> , 2019, 115, 1886-1906.	3.8	86
35	Cross-Regulation between TDP-43 and Paraspeckles Promotes Pluripotency-Differentiation Transition. <i>Molecular Cell</i> , 2019, 74, 951-965.e13.	9.7	85
36	Elements and machinery of non-coding RNAs: toward their taxonomy. <i>EMBO Reports</i> , 2014, 15, 489-507.	4.5	84

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37	The Interaction between Cap-binding Complex and RNA Export Factor Is Required for Intronless mRNA Export. <i>Journal of Biological Chemistry</i> , 2007, 282, 15645-15651.	3.4	82
38	Paraspeckle nuclear bodiesâ€”useful uselessness?. <i>Cellular and Molecular Life Sciences</i> , 2012, 69, 3027-3036.	5.4	82
39	cDNA structure, expression and nucleic acid-binding properties of three RNA-binding proteins in tobacco: occurrence of tissue-specific alternative splicing. <i>Nucleic Acids Research</i> , 1993, 21, 3981-3987.	14.5	79
40	The rolC promoter of <i>Agrobacterium rhizogenes</i> Ri plasmid is activated by sucrose in transgenic tobacco plants. <i>Molecular Genetics and Genomics</i> , 1994, 244, 15-22.	2.4	77
41	Molecular dissection of nuclear paraspeckles: towards understanding the emerging world of the RNP milieu. <i>Open Biology</i> , 2018, 8, .	3.6	73
42	Molecular anatomy of the architectural NEAT1 noncoding RNA: The domains, interactors, and biogenesis pathway required to build phaseâ€”separated nuclear paraspeckles. <i>Wiley Interdisciplinary Reviews RNA</i> , 2019, 10, e1545.	6.4	73
43	NEAT1 is essential for metabolic changes that promote breast cancer growth and metastasis. <i>Cell Metabolism</i> , 2021, 33, 2380-2397.e9.	16.2	73
44	The building process of the functional paraspeckle with long non-coding RNAs. <i>Frontiers in Bioscience - Elite</i> , 2015, 7, 1-47.	1.8	69
45	Introns play an essential role in splicing-dependent formation of the exon junction complex. <i>Genes and Development</i> , 2007, 21, 1993-1998.	5.9	58
46	Occurrence of silent RNA editing in chloroplasts: its species specificity and the influence of environmental and developmental conditions. <i>Plant Molecular Biology</i> , 1996, 30, 667-672.	3.9	57
47	Translation of tobacco chloroplast rps14 mRNA depends on a Shine-Dalgarno-like sequence in the 5â€”untranslated region but not on internal RNA editing in the coding region. <i>FEBS Letters</i> , 1998, 430, 257-260.	2.8	57
48	The Sam68 nuclear body is composed of two RNase-sensitive substructures joined by the adaptor HNRNPL. <i>Journal of Cell Biology</i> , 2016, 214, 45-59.	5.2	57
49	Functional Shine-Dalgarno-Like Sequences for Translational Initiation of Chloroplast mRNAs. <i>Plant and Cell Physiology</i> , 2004, 45, 114-117.	3.1	56
50	Paraspeckles are constructed as block copolymer micelles. <i>EMBO Journal</i> , 2021, 40, e107270.	7.8	52
51	Transcripts of unknown function in multiple-signaling pathways involved in human stem cell differentiation. <i>Nucleic Acids Research</i> , 2009, 37, 4987-5000.	14.5	51
52	Nuclear Bodies Built on Architectural Long Noncoding RNAs: Unifying Principles of Their Construction and Function. <i>Molecules and Cells</i> , 2017, 40, 889-896.	2.6	51
53	Translation of psbC mRNAs Starts from the Downstream GUG, not the Upstream AUG, and Requires the Extended Shineâ€”Dalgarno Sequence in Tobacco Chloroplasts. <i>Plant and Cell Physiology</i> , 2007, 48, 1374-1378.	3.1	49
54	Architectural RNAs for Membraneless Nuclear Body Formation. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2019, 84, 227-237.	1.1	46

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55	The expression of long noncoding RNA NEAT1 is reduced in schizophrenia and modulates oligodendrocytes transcription. <i>NPJ Schizophrenia</i> , 2019, 5, 3.	3.6	44
56	The building process of the functional paraspeckle with long non-coding RNAs. <i>Frontiers in Bioscience - Elite</i> , 2015, 7, 1-47.	1.8	42
57	Tissue-specific splicing regulator Fox-1 induces exon skipping by interfering E complex formation on the downstream intron of human F1A gene. <i>Nucleic Acids Research</i> , 2007, 35, 5303-5311.	14.5	40
58	The long noncoding RNA <i>NEAT1_1</i> is seemingly dispensable for normal tissue homeostasis and cancer cell growth. <i>Rna</i> , 2019, 25, 1681-1695.	3.5	39
59	Small molecule targeting r(UGGAA) <sub>n</sub> disrupts RNA foci and alleviates disease phenotype in <i>Drosophila</i> model. <i>Nature Communications</i> , 2021, 12, 236.	12.8	39
60	Long non-coding RNA <i>Neat1</i> regulates adaptive behavioural response to stress in mice. <i>Translational Psychiatry</i> , 2020, 10, 171.	4.8	38
61	Multiple elements required for translation of plastid <i>atpB</i> mRNA lacking the Shine-Dalgarno sequence. <i>Nucleic Acids Research</i> , 2004, 32, 3503-3510.	14.5	37
62	Simultaneous multicolor detection of RNA and proteins using super-resolution microscopy. <i>Methods</i> , 2016, 98, 158-165.	3.8	36
63	m <sup>6</sup> A modification of HSATIII lncRNAs regulates temperature-dependent splicing. <i>EMBO Journal</i> , 2021, 40, e107976.	7.8	36
64	Identification and characterization of human non-coding RNAs with tissue-specific expression. <i>Biochemical and Biophysical Research Communications</i> , 2007, 357, 991-996.	2.1	33
65	Coordinated expression of ncRNAs and HOX mRNAs in the human HOXA locus. <i>Biochemical and Biophysical Research Communications</i> , 2007, 357, 724-730.	2.1	32
66	U7 small nuclear ribonucleoprotein represses histone gene transcription in cell cycle-arrested cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5693-5698.	7.1	31
67	Two distinct nuclear stress bodies containing different sets of RNA-binding proteins are formed with HSATIII architectural noncoding RNAs upon thermal stress exposure. <i>Biochemical and Biophysical Research Communications</i> , 2019, 516, 419-423.	2.1	30
68	Chromatin remodeling complexes in the assembly of long noncoding RNA-dependent nuclear bodies. <i>Nucleus</i> , 2015, 6, 462-467.	2.2	28
69	Forced isoform switching of <i>Neat1_1</i> to <i>Neat1_2</i> leads to the loss of <i>Neat1_1</i> and the hyperformation of paraspeckles but does not affect the development and growth of mice. <i>Rna</i> , 2020, 26, 251-264.	3.5	27
70	RNA editing of tobacco <i>petB</i> mRNAs occurs both in chloroplasts and non-photosynthetic proplastids. <i>Plant Molecular Biology</i> , 1994, 26, 509-513.	3.9	26
71	A thymus-specific noncoding RNA, <i>Thy-ncR1</i> , is a cytoplasmic riboregulator of <i>MFAP4</i> mRNA in immature T-cell lines. <i>BMC Molecular Biology</i> , 2010, 11, 99.	3.0	26
72	The chloroplast <i>infA</i> gene with a functional UUG initiation codon. <i>FEBS Letters</i> , 1999, 445, 169-172.	2.8	25

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73	How to build a paraspeckle. <i>Genome Biology</i> , 2009, 10, 227.	9.6	25
74	Control of the heat stress-induced alternative splicing of a subset of genes by hnRNP K. <i>Genes To Cells</i> , 2016, 21, 1006-1014.	1.2	25
75	Short Tandem Repeat-Enriched Architectural RNAs in Nuclear Bodies: Functions and Associated Diseases. <i>Non-coding RNA</i> , 2020, 6, 6.	2.6	25
76	Splicing of U12-type introns deposits an exon junction complex competent to induce nonsense-mediated mRNA decay. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 17976-17981.	7.1	24
77	Characterization of a cDNA encoding a novel type of RNA-binding protein in tobacco: its expression and nucleic acid-binding properties. <i>Molecular Genetics and Genomics</i> , 1994, 244, 360-366.	2.4	22
78	Phase separation driven by production of architectural RNA transcripts. <i>Soft Matter</i> , 2020, 16, 4692-4698.	2.7	22
79	Paraspeckles modulate the intranuclear distribution of paraspeckle-associated Ctn RNA. <i>Scientific Reports</i> , 2016, 6, 34043.	3.3	21
80	CRISPRa-mediated NEAT1 lncRNA upregulation induces formation of intact paraspeckles. <i>Biochemical and Biophysical Research Communications</i> , 2018, 504, 218-224.	2.1	19
81	Inhibition of the long non-coding RNA NEAT1 protects cardiomyocytes from hypoxia in vitro via decreased pri-miRNA processing. <i>Cell Death and Disease</i> , 2020, 11, 677.	6.3	18
82	A histone modifier, ASXL1, interacts with NONO and is involved in paraspeckle formation in hematopoietic cells. <i>Cell Reports</i> , 2021, 36, 109576.	6.4	15
83	SPF45/RBM17-dependent, but not U2AF-dependent, splicing in a distinct subset of human short introns. <i>Nature Communications</i> , 2021, 12, 4910.	12.8	13
84	Noncoding RNAs: biology and applications—a Keystone Symposia report. <i>Annals of the New York Academy of Sciences</i> , 2021, 1506, 118-141.	3.8	13
85	Clues to long noncoding RNA taxonomy. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2016, 1859, 1-2.	1.9	11
86	Architectural roles of long noncoding RNAs in the intranuclear formation of functional paraspeckles. <i>Frontiers in Bioscience - Landmark</i> , 2012, 17, 1729.	3.0	11
87	lncRNA Neat1 regulates neuronal dysfunction post-sepsis via stabilization of hemoglobin subunit beta. <i>Molecular Therapy</i> , 2022, 30, 2618-2632.	8.2	10
88	Control of condensates dictates nucleolar architecture. <i>Science</i> , 2021, 373, 486-487.	12.6	8
89	Paraspeckles: possible nuclear hubs by the RNA for the RNA. <i>Biomolecular Concepts</i> , 2012, 3, 415-428.	2.2	7
90	NONO Is a Negative Regulator of <i>SOX2</i> Promoter. <i>Cancer Genomics and Proteomics</i> , 2020, 17, 359-367.	2.0	5

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91	Distinct RNA polymerase transcripts direct the assembly of phase-separated DBC1 nuclear bodies in different cell lines. <i>Molecular Biology of the Cell</i> , 2021, 32, ar33.	2.1	5
92	ArcRNAs and the formation of nuclear bodies. <i>Mammalian Genome</i> , 2022, 33, 382-401.	2.2	4
93	CRISPR-Mediated Mutagenesis of Long Noncoding RNAs. <i>Methods in Molecular Biology</i> , 2021, 2254, 283-303.	0.9	4
94	Genome-Wide Co-Localization Screening of Nuclear Body Components Using a Fluorescently Tagged FLJ cDNA Clone Library. <i>Methods in Molecular Biology</i> , 2015, 1262, 155-163.	0.9	3
95			