

Makoto Miyagishi

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114
papers

14,337
citations

46
h-index

119
g-index

122
ext. papers

15,484
ext. citations

7.7
avg, IF

5.69
L-index

#	Paper	IF	Citations
114	The RNA helicase RIG-I has an essential function in double-stranded RNA-induced innate antiviral responses. <i>Nature Immunology</i> , 2004 , 5, 730-7	19.1	2998
113	Cloning of adiponectin receptors that mediate antidiabetic metabolic effects. <i>Nature</i> , 2003 , 423, 762-9	50.4	2453
112	DAI (DLM-1/ZBP1) is a cytosolic DNA sensor and an activator of innate immune response. <i>Nature</i> , 2007 , 448, 501-5	50.4	1251
111	Shared and unique functions of the DExD/H-box helicases RIG-I, MDA5, and LGP2 in antiviral innate immunity. <i>Journal of Immunology</i> , 2005 , 175, 2851-8	5.3	1232
110	U6 promoter-driven siRNAs with four uridine 3'overhangs efficiently suppress targeted gene expression in mammalian cells. <i>Nature Biotechnology</i> , 2002 , 20, 497-500	44.5	643
109	Silent information regulator 2 potentiates Foxo1-mediated transcription through its deacetylase activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 10042-7	11.5	485
108	Two domains of Nrf2 cooperatively bind CBP, a CREB binding protein, and synergistically activate transcription. <i>Genes To Cells</i> , 2001 , 6, 857-68	2.3	326
107	Inhibition of intracellular hepatitis C virus replication by synthetic and vector-derived small interfering RNAs. <i>EMBO Reports</i> , 2003 , 4, 602-8	6.5	263
106	Confirmation of multiple risk Loci and genetic impacts by a genome-wide association study of type 2 diabetes in the Japanese population. <i>Diabetes</i> , 2009 , 58, 1690-9	0.9	196
105	Endothelin-1 as a new melanogen: coordinated expression of its gene and the tyrosinase gene in UVB-exposed human epidermis. <i>Journal of Investigative Dermatology</i> , 1995 , 105, 32-7	4.3	186
104	Adenovirus-mediated transfer of siRNA against survivin induced apoptosis and attenuated tumor cell growth in vitro and in vivo. <i>Molecular Therapy</i> , 2004 , 10, 162-71	11.7	165
103	Inhibition of growth and invasive ability of melanoma by inactivation of mutated BRAF with lentivirus-mediated RNA interference. <i>Oncogene</i> , 2004 , 23, 6031-9	9.2	165
102	Blockade of the stromal cell-derived factor-1/CXCR4 axis attenuates in vivo tumor growth by inhibiting angiogenesis in a vascular endothelial growth factor-independent manner. <i>Cancer Research</i> , 2005 , 65, 5864-71	10.1	162
101	A20 is a negative regulator of IFN regulatory factor 3 signaling. <i>Journal of Immunology</i> , 2005 , 174, 1507-12	12	153
100	Optimization of an siRNA-expression system with an improved hairpin and its significant suppressive effects in mammalian cells. <i>Journal of Gene Medicine</i> , 2004 , 6, 715-23	3.5	150
99	The role of endothelin-1 in epidermal hyperpigmentation and signaling mechanisms of mitogenesis and melanogenesis. <i>Pigment Cell & Melanoma Research</i> , 1997 , 10, 218-28		140
98	Comparison of the suppressive effects of antisense oligonucleotides and siRNAs directed against the same targets in mammalian cells. <i>Oligonucleotides</i> , 2003 , 13, 1-7		138

97	Histone demethylase JMJD2B functions as a co-factor of estrogen receptor in breast cancer proliferation and mammary gland development. <i>PLoS ONE</i> , 2011 , 6, e17830	3.7	137
96	DeltaEF1 mediates TGF-beta signaling in vascular smooth muscle cell differentiation. <i>Developmental Cell</i> , 2006 , 11, 93-104	10.2	118
95	Effects on RNAi of the tight structure, sequence and position of the targeted region. <i>Nucleic Acids Research</i> , 2004 , 32, 691-9	20.1	115
94	Regulation of Lef-mediated transcription and p53-dependent pathway by associating beta-catenin with CBP/p300. <i>Journal of Biological Chemistry</i> , 2000 , 275, 35170-5	5.4	101
93	Functional association between CBP and HNF4 in trans-activation. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 241, 664-9	3.4	99
92	BRAF mediates RET/PTC-induced mitogen-activated protein kinase activation in thyroid cells: functional support for requirement of the RET/PTC-RAS-BRAF pathway in papillary thyroid carcinogenesis. <i>Endocrinology</i> , 2006 , 147, 1014-9	4.8	99
91	Intracellular signaling mechanisms leading to synergistic effects of endothelin-1 and stem cell factor on proliferation of cultured human melanocytes. Cross-talk via trans-activation of the tyrosine kinase c-kit receptor. <i>Journal of Biological Chemistry</i> , 2000 , 275, 33321-8	5.4	92
90	Effects on RNA interference in gene expression (RNAi) in cultured mammalian cells of mismatches and the introduction of chemical modifications at the 3' ends of siRNAs. <i>Oligonucleotides</i> , 2002 , 12, 301-9		86
89	Effect of asymmetric terminal structures of short RNA duplexes on the RNA interference activity and strand selection. <i>Nucleic Acids Research</i> , 2008 , 36, 5812-21	20.1	85
88	Strategies for generation of an siRNA expression library directed against the human genome. <i>Oligonucleotides</i> , 2003 , 13, 325-33		78
87	p53-Independent negative regulation of p21/cyclin-dependent kinase-interacting protein 1 by the sonic hedgehog-glioma-associated oncogene 1 pathway in gastric carcinoma cells. <i>Cancer Research</i> , 2005 , 65, 10822-9	10.1	77
86	Intracellular-diced dsRNA has enhanced efficacy for silencing HCV RNA and overcomes variation in the viral genotype. <i>Gene Therapy</i> , 2006 , 13, 883-92	4	76
85	Identification of a network involved in thapsigargin-induced apoptosis using a library of small interfering RNA expression vectors. <i>Journal of Biological Chemistry</i> , 2005 , 280, 826-31	5.4	75
84	Cooperative interaction of EWS with CREB-binding protein selectively activates hepatocyte nuclear factor 4-mediated transcription. <i>Journal of Biological Chemistry</i> , 2003 , 278, 5427-32	5.4	74
83	Enhanced cancer immunotherapy using STAT3-depleted dendritic cells with high Th1-inducing ability and resistance to cancer cell-derived inhibitory factors. <i>Journal of Immunology</i> , 2011 , 187, 27-36	5.3	72
82	Gene therapy for human small-cell lung carcinoma by inactivation of Skp-2 with virally mediated RNA interference. <i>Gene Therapy</i> , 2005 , 12, 95-100	4	69
81	Smad4 silencing in pancreatic cancer cell lines using stable RNA interference and gene expression profiles induced by transforming growth factor-beta. <i>Oncogene</i> , 2005 , 24, 662-71	9.2	69
80	Cutting Edge: Lentiviral short hairpin RNA silencing of PTEN in human mast cells reveals constitutive signals that promote cytokine secretion and cell survival. <i>Journal of Immunology</i> , 2006 , 176, 5167-71	5.3	66

79	Involvement of template-activating factor I/SET in transcription of adenovirus early genes as a positive-acting factor. <i>Journal of Virology</i> , 2006 , 80, 794-801	6.6	64
78	A multifunctional envelope-type nano device for novel gene delivery of siRNA plasmids. <i>International Journal of Pharmaceutics</i> , 2005 , 301, 277-85	6.5	62
77	Vector-based in vivo RNA interference: dose- and time-dependent suppression of transgene expression. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004 , 308, 688-93	4.7	61
76	Notch1 oncoprotein antagonizes TGF-beta/Smad-mediated cell growth suppression via sequestration of coactivator p300. <i>Cancer Science</i> , 2005 , 96, 274-82	6.9	59
75	Transcription factor YY1 contributes to tumor growth by stabilizing hypoxia factor HIF-1 in a p53-independent manner. <i>Cancer Research</i> , 2013 , 73, 1787-99	10.1	54
74	Effective inhibition of cell growth and invasion of melanoma by combined suppression of BRAF (V599E) and Skp2 with lentiviral RNAi. <i>International Journal of Cancer</i> , 2006 , 118, 472-6	7.5	53
73	Escape from the interferon response associated with RNA interference using vectors that encode long modified hairpin-RNA. <i>Molecular BioSystems</i> , 2005 , 1, 382-90		53
72	Transcription Factor YY1 Promotes Cell Proliferation by Directly Activating the Pentose Phosphate Pathway. <i>Cancer Research</i> , 2018 , 78, 4549-4562	10.1	51
71	Essential role of ATF-1 in induction of NOX1, a catalytic subunit of NADPH oxidase: involvement of mitochondrial respiratory chain. <i>Biochemical Journal</i> , 2005 , 386, 255-61	3.8	51
70	Myosin motor Myo1c and its receptor NEMO/IKK-gamma promote TNF-alpha-induced serine307 phosphorylation of IRS-1. <i>Journal of Cell Biology</i> , 2006 , 173, 665-71	7.3	50
69	siRNA-based inhibition specific for mutant SOD1 with single nucleotide alternation in familial ALS, compared with ribozyme and DNA enzyme. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 314, 283-91	3.4	47
68	Small interfering RNA expression vector targeting hypoxia-inducible factor 1 alpha inhibits tumor growth in hepatobiliary and pancreatic cancers. <i>Cancer Gene Therapy</i> , 2006 , 13, 131-40	5.4	46
67	Generation of an shRNAi expression library against the whole human transcripts. <i>Virus Research</i> , 2004 , 102, 117-24	6.4	45
66	Control of siRNA expression using the Cre-loxP recombination system. <i>Nucleic Acids Research</i> , 2004 , 32, e66	20.1	41
65	Transgenic small interfering RNA halts amyotrophic lateral sclerosis in a mouse model. <i>Journal of Biological Chemistry</i> , 2005 , 280, 42826-30	5.4	41
64	Identification of metastasis-related genes in a mouse model using a library of randomized ribozymes. <i>Journal of Biological Chemistry</i> , 2004 , 279, 38083-6	5.4	40
63	Single small-interfering RNA expression vector for silencing multiple transforming growth factor-beta pathway components. <i>Nucleic Acids Research</i> , 2005 , 33, e131	20.1	40
62	Role of endothelin-1 in hyperpigmentation in seborrheic keratosis. <i>British Journal of Dermatology</i> , 1996 , 135, 918-23	4	37

61	Know-how of RNA interference and its applications in research and therapy. <i>Mutation Research - Reviews in Mutation Research</i> , 2004 , 567, 71-84	7	33
60	Proteomic analysis of the TGF-beta signaling pathway in pancreatic carcinoma cells using stable RNA interference to silence Smad4 expression. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 318, 289-96	3.4	32
59	Development and application of siRNA expression vector. <i>Nucleic Acids Symposium Series</i> , 2002 , 113-4		32
58	Mitogen-activated protein 3 kinase 6 mediates angiogenic and tumorigenic effects via vascular endothelial growth factor expression. <i>American Journal of Pathology</i> , 2009 , 174, 1553-63	5.8	31
57	Cloning of cDNA and amino acid sequence of one of chicken cone visual pigments. <i>Biochemical and Biophysical Research Communications</i> , 1990 , 173, 1212-7	3.4	30
56	Identification of XBP1-u as a novel regulator of the MDM2/p53 axis using an shRNA library. <i>Science Advances</i> , 2017 , 3, e1701383	14.3	27
55	Analysis of double-stranded RNA-induced apoptosis pathways using interferon-response noninducible small interfering RNA expression vector library. <i>Journal of Biological Chemistry</i> , 2005 , 280, 25687-96	5.4	26
54	Simultaneous suppression of MITF and BRAF V600E enhanced inhibition of melanoma cell proliferation. <i>Cancer Science</i> , 2009 , 100, 1863-9	6.9	25
53	Yin Yang 1 induces transcriptional activity of p73 through cooperation with E2F1. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 365, 75-81	3.4	25
52	GATA-3 suppresses IFN-gamma promoter activity independently of binding to cis-regulatory elements. <i>FEBS Letters</i> , 2004 , 570, 63-8	3.8	24
51	Genome-wide application of RNAi to the discovery of potential drug targets. <i>FEBS Letters</i> , 2005 , 579, 5988-95	3.8	22
50	Determination of the role of DDX3 a factor involved in mammalian RNAi pathway using an shRNA-expression library. <i>PLoS ONE</i> , 2013 , 8, e59445	3.7	21
49	RNAi expression vectors in mammalian cells. <i>Methods in Molecular Biology</i> , 2004 , 252, 483-91	1.4	21
48	Suppression of gene expression by RNA interference in cultured plant cells. <i>Oligonucleotides</i> , 2001 , 11, 359-67		21
47	The ASK family kinases differentially mediate induction of type I interferon and apoptosis during the antiviral response. <i>Science Signaling</i> , 2015 , 8, ra78	8.8	20
46	Inhibition of PHD3 by salidroside promotes neovascularization through cell-cell communications mediated by muscle-secreted angiogenic factors. <i>Scientific Reports</i> , 2017 , 7, 43935	4.9	19
45	Control of siRNA expression utilizing Cre-loxP recombination system. <i>Nucleic Acids Symposium Series</i> , 2003 , 255-6		18
44	Introduction of short interfering RNA to silence endogenous E-selectin in vascular endothelium leads to successful inhibition of leukocyte adhesion. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 310, 1062-6	3.4	16

43	Small-interfering-RNA expression in cells based on an efficiently constructed dumbbell-shaped DNA. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3160-3	16.4	15
42	Correlation between mRNA expression of Th1/Th2 cytokines and their specific transcription factors in human helper T-cell clones. <i>Immunology and Cell Biology</i> , 2005 , 83, 536-41	5	15
41	Mechanism of action of hammerhead ribozymes and their applications in vivo: rapid identification of functional genes in the post-genome era by novel hybrid ribozyme libraries. <i>Biochemical Society Transactions</i> , 2002 , 30, 1145-9	5.1	15
40	Transcription factor Yin Yang 2 is a novel regulator of the p53/p21 axis. <i>Oncotarget</i> , 2017 , 8, 54694-54703	3.3	15
39	Type II Fp of human mitochondrial respiratory complex II and its role in adaptation to hypoxia and nutrition-deprived conditions. <i>Mitochondrion</i> , 2013 , 13, 602-9	4.9	14
38	Zinc-finger protein p52-ZER6 accelerates colorectal cancer cell proliferation and tumour progression through promoting p53 ubiquitination. <i>EBioMedicine</i> , 2019 , 48, 248-263	8.8	13
37	TRAIL-induced cell death cooperates with IFN-gamma activation in the graft-versus-tumor effect against colon tumors. <i>International Journal of Cancer</i> , 2006 , 118, 2237-46	7.5	13
36	Cell type-dependent transactivation or repression of mesoderm-restricted basic helix-loop-helix protein, POD-1/Capsulin. <i>Molecular and Cellular Biochemistry</i> , 2000 , 205, 141-7	4.2	12
35	An excellent monitoring system for surface ubiquitination-induced internalization in mammals. <i>PLoS ONE</i> , 2008 , 3, e1490	3.7	12
34	Elevating VEGF-A and PDGF-BB secretion by salidroside enhances neoangiogenesis in diabetic hind-limb ischemia. <i>Oncotarget</i> , 2017 , 8, 97187-97205	3.3	12
33	Tiny masking locked nucleic acids effectively bind to mRNA and inhibit binding of microRNAs in relation to thermodynamic stability. <i>Biomedical Reports</i> , 2014 , 2, 509-512	1.8	11
32	A fast, simple method for screening radiation susceptibility genes by RNA interference. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 333, 1370-7	3.4	10
31	Novel methods for expressing RNA interference in human cells. <i>Methods in Enzymology</i> , 2005 , 392, 97-112	12.7	10
30	Analysis of ATP and AMP binding to a DNA aptamer and its imidazole-tethered derivatives by surface plasmon resonance. <i>Analyst, The</i> , 2015 , 140, 5881-4	5	9
29	Knockdown of the bovine prion gene PRNP by RNA interference (RNAi) technology. <i>BMC Biotechnology</i> , 2007 , 7, 44	3.5	9
28	Ribozymes: applications to functional analysis and gene discovery. <i>Journal of Biochemistry</i> , 2004 , 136, 133-47	3.1	9
27	Neurogenic differentiation factor 1 promotes colorectal cancer cell proliferation and tumorigenesis by suppressing the p53/p21 axis. <i>Cancer Science</i> , 2020 , 111, 175-185	6.9	8
26	Biochemical and structural features of extracellular vesicle-binding RNA aptamers. <i>Biomedical Reports</i> , 2017 , 6, 615-626	1.8	7

25	Prolyl hydroxylase domain-2 silencing induced by hydrodynamic limb vein injection enhances vascular regeneration in critical limb ischemia mice through activation of multiple genes. <i>Current Gene Therapy</i> , 2015 , 15, 313-25	4.3	7
24	Screening of siRNA target sequences by using fragmented DNA. <i>Journal of Gene Medicine</i> , 2006 , 8, 782-91	3.5	6
23	Differentiation stage-specific analysis of gene function with inducible short hair-pin RNA in differentiating embryonic stem cells. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 351, 669-74	3.4	6
22	Establishment of stable hFis1 knockdown cells with an siRNA expression vector. <i>Journal of Biochemistry</i> , 2004 , 136, 421-5	3.1	6
21	Incorporation, intracellular trafficking and processing of extracellular heparanase by mast cells: Involvement of syndecan-4-dependent pathway. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 503, 3235-3241	3.4	5
20	RNAi-mediated silencing of p190Bcr-Abl inactivates Stat5 and cooperates with imatinib mesylate and 17-allylamino-17-demethoxygeldanamycin in selective killing of p190Bcr-Abl-expressing leukemia cells. <i>Leukemia</i> , 2008 , 22, 1131-8	10.7	5
19	Cancer-derived VEGF plays no role in malignant ascites formation in the mouse. <i>World Journal of Gastroenterology</i> , 2005 , 11, 5455-9	5.6	5
18	Development of aptamer-based inhibitors for CRISPR/Cas system. <i>Nucleic Acids Research</i> , 2021 , 49, 13302-13344	13.44	5
17	Altered phospholipid molecular species and glycolipid composition in brain, liver and fibroblasts of Zellweger syndrome. <i>Neuroscience Letters</i> , 2013 , 552, 71-5	3.3	4
16	Genome-wide screening by using small-interfering RNA expression libraries. <i>Methods in Molecular Biology</i> , 2007 , 360, 131-42	1.4	4
15	The transcription factor PBX3 promotes tumor cell growth through transcriptional suppression of the tumor suppressor p53. <i>Acta Pharmacologica Sinica</i> , 2021 , 42, 1888-1899	8	4
14	Synergistic cooperation of MDM2 and E2F1 contributes to TAp73 transcriptional activity. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 449, 319-26	3.4	3
13	Down-regulation of endogenous Wt1 expression by Sry transgene in the murine embryonic mesonephros-derived M15 cell line. <i>Journal of Reproduction and Development</i> , 2006 , 52, 415-27	2.1	3
12	Transport of intracellularly active ribozymes to the cytoplasm. <i>Cancer Chemotherapy and Pharmacology</i> , 2001 , 48 Suppl 1, S96-101	3.5	3
11	Defective repair of radiation-induced DNA damage is complemented by a CHORI-230-65K18 BAC clone on rat chromosome 4. <i>Genomics</i> , 2006 , 87, 236-42	4.3	2
10	Small-Interfering-RNA Expression in Cells Based on an Efficiently Constructed Dumbbell-Shaped DNA. <i>Angewandte Chemie</i> , 2004 , 116, 3222-3225	3.6	2
9	Stimulatory effect of an indirectly attached RNA helicase-recruiting sequence on the suppression of gene expression by antisense oligonucleotides. <i>Oligonucleotides</i> , 2003 , 13, 9-17		2
8	Chemistry-based RNA technologies: demonstration of usefulness of libraries of ribozymes and short hairpin RNAs (shRNAs). <i>Nucleic Acids Symposium Series</i> , 2005 , 91-2		2

7	Generation of highly specific vector-based shRNAi libraries directed against the entire human genome 2005 , 480-496		1
6	Zn-dependent DNazymes that cleave all combinations of ribonucleotides. <i>Communications Biology</i> , 2021 , 4, 221	6.7	1
5	Homeostasis Imbalance of YY2 and YY1 Promotes Tumor Growth by Manipulating Ferroptosis.. <i>Advanced Science</i> , 2022 , e2104836	13.6	0
4	Design of Intracellularly Active Ribozymes and siRNAs 2005 , 363-397		
3	Engineered Ribozymes: Efficient Tools for Molecular Gene Therapy and Gene Discovery 2006 , 497-518		
2	ShRNA Targeting p190BCR-ABL Successfully Eliminates Ph-ALL Cells with or without ABL Kinase Domain Mutation.. <i>Blood</i> , 2006 , 108, 1838-1838	2.2	
1	Knockdown of Severe Acute Respiratory Syndrome Corona Virus (SARS-CoV) Genes by Small Interfering RNA (siRNA) Using siRNA-expression Vectors and Synthetic Double-stranded RNA (dsRNA) as a Model for siRNA Design. <i>Genes and Environment</i> , 2009 , 31, 15-23	2.8	