

Makoto Miyagishi

List of Publications by Year in descending order

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116
papers

16,474
citations

44069
48
h-index

23533
111
g-index

122
all docs

122
docs citations

122
times ranked

18805
citing authors

#	ARTICLE	IF	CITATIONS
1	The RNA helicase RIG-I has an essential function in double-stranded RNA-induced innate antiviral responses. <i>Nature Immunology</i> , 2004, 5, 730-737.	14.5	3,433
2	Cloning of adiponectin receptors that mediate antidiabetic metabolic effects. <i>Nature</i> , 2003, 423, 762-769.	27.8	2,804
3	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, 2851-2858.	0.8	1,438
4	DAI (DLM-1/ZBP1) is a cytosolic DNA sensor and an activator of innate immune response. <i>Nature</i> , 2007, 448, 501-505.	27.8	1,437
5	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.	17.5	712
6	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, 10042-10047.	7.1	543
7	Two domains of Nrf2 cooperatively bind CBP, a CREB binding protein, and synergistically activate transcription. <i>Genes To Cells</i> , 2001, 6, 857-868.	1.2	415
8	Inhibition of intracellular hepatitis C virus replication by synthetic and vector-derived small interfering RNAs. <i>EMBO Reports</i> , 2003, 4, 602-608.	4.5	287
9	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, 1690-1699.	0.6	216
10	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, 32-37.	0.7	211
11	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, 5864-5871.	0.9	178
12	Inhibition of growth and invasive ability of melanoma by inactivation of mutated BRAF with lentivirus-mediated RNA interference. <i>Oncogene</i> , 2004, 23, 6031-6039.	5.9	177
13	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, 162-171.	8.2	175
14	A20 Is a Negative Regulator of IFN Regulatory Factor 3 Signaling. <i>Journal of Immunology</i> , 2005, 174, 1507-1512.	0.8	170
15	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.	4.3	166
16	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.	2.5	166
17	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, 715-723.	2.8	161
18	The Role of Endothelin-1 in Epidermal Hyperpigmentation and Signaling Mechanisms of Mitogenesis and Melanogenesis. <i>Pigment Cell & Melanoma Research</i> , 1997, 10, 218-228.	3.6	154

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19	ÎEF1 Mediates TGF-Î² Signaling in Vascular Smooth Muscle Cell Differentiation. <i>Developmental Cell</i> , 2006, 11, 93-104.	7.0	134
20	Effects on RNAi of the tight structure, sequence and position of the targeted region. <i>Nucleic Acids Research</i> , 2004, 32, 691-699.	14.5	125
21	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, 1014-1019.	2.8	111
22	Functional Association between CBP and HNF4 inTrans-activation. <i>Biochemical and Biophysical Research Communications</i> , 1997, 241, 664-669.	2.1	108
23	Regulation of Lef-mediated Transcription and p53-dependent Pathway by Associating Î²-Catenin with CBP/p300. <i>Journal of Biological Chemistry</i> , 2000, 275, 35170-35175.	3.4	108
24	Transcription Factor YY1 Promotes Cell Proliferation by Directly Activating the Pentose Phosphate Pathway. <i>Cancer Research</i> , 2018, 78, 4549-4562.	0.9	100
25	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, 301-309.	4.3	99
26	Intracellular Signaling Mechanisms Leading to Synergistic Effects of Endothelin-1 and Stem Cell Factor on Proliferation of Cultured Human Melanocytes. <i>Journal of Biological Chemistry</i> , 2000, 275, 33321-33328.	3.4	97
27	Strategies for Generation of an siRNA Expression Library Directed Against the Human Genome. <i>Oligonucleotides</i> , 2003, 13, 325-333.	2.7	96
28	Effect of asymmetric terminal structures of short RNA duplexes on the RNA interference activity and strand selection. <i>Nucleic Acids Research</i> , 2008, 36, 5812-5821.	14.5	96
29	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.	0.8	87
30	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, 10822-10829.	0.9	86
31	Cooperative Interaction of EWS with CREB-binding Protein Selectively Activates Hepatocyte Nuclear Factor 4-mediated Transcription. <i>Journal of Biological Chemistry</i> , 2003, 278, 5427-5432.	3.4	82
32	Intracellular-diced dsRNA has enhanced efficacy for silencing HCV RNA and overcomes variation in the viral genotype. <i>Gene Therapy</i> , 2006, 13, 883-892.	4.5	81
33	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.	4.5	79
34	Identification of a Network Involved in Thapsigargin-induced Apoptosis Using a Library of Small Interfering RNA Expression Vectors*[boxes]. <i>Journal of Biological Chemistry</i> , 2005, 280, 826-831.	3.4	79
35	A multifunctional envelope-type nano device for novel gene delivery of siRNA plasmids. <i>International Journal of Pharmaceutics</i> , 2005, 301, 277-285.	5.2	72
36	Smad4 silencing in pancreatic cancer cell lines using stable RNA interference and gene expression profiles induced by transforming growth factor-Î². <i>Oncogene</i> , 2005, 24, 662-671.	5.9	72

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37	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.	3.4	72
38	Vector-Based in Vivo RNA Interference: Dose- and Time-Dependent Suppression of Transgene Expression. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004, 308, 688-693.	2.5	68
39	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, 5167-5171.	0.8	68
40	Notch1 oncoprotein antagonizes TGF β ² /Smad α -mediated cell growth suppression via sequestration of coactivator p300. <i>Cancer Science</i> , 2005, 96, 274-282.	3.9	65
41	Transcription Factor YY1 Contributes to Tumor Growth by Stabilizing Hypoxia Factor HIF-1 α in a p53-Independent Manner. <i>Cancer Research</i> , 2013, 73, 1787-1799.	0.9	62
42	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, 472-476.	5.1	58
43	Escape from the interferon response associated with RNA interference using vectors that encode long modified hairpin-RNA. <i>Molecular BioSystems</i> , 2005, 1, 382.	2.9	57
44	Myosin motor Myo1c and its receptor NEMO/IKK- β promote TNF- α -induced serine307 phosphorylation of IRS-1. <i>Journal of Cell Biology</i> , 2006, 173, 665-671.	5.2	57
45	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, 255-261.	3.7	54
46	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, 283-291.	2.1	52
47	Generation of an shRNAi expression library against the whole human transcripts. <i>Virus Research</i> , 2004, 102, 117-124.	2.2	50
48	Control of siRNA expression using the Cre-loxP recombination system. <i>Nucleic Acids Research</i> , 2004, 32, e66-e66.	14.5	48
49	Transgenic Small Interfering RNA Halts Amyotrophic Lateral Sclerosis in a Mouse Model*. <i>Journal of Biological Chemistry</i> , 2005, 280, 42826-42830.	3.4	48
50	Single small-interfering RNA expression vector for silencing multiple transforming growth factor- β pathway components. <i>Nucleic Acids Research</i> , 2005, 33, e131-e131.	14.5	47
51	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, 131-140.	4.6	46
52	Identification of Metastasis-related Genes in a Mouse Model Using a Library of Randomized Ribozymes. <i>Journal of Biological Chemistry</i> , 2004, 279, 38083-38086.	3.4	45
53	Role of endothelin-1 in hyperpigmentation in seborrhoeic keratosis. <i>British Journal of Dermatology</i> , 1996, 135, 918-923.	1.5	44
54	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, 1553-1563.	3.8	42

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55	Development and application of siRNA expression vector. Nucleic Acids Symposium Series, 2002, 2, 113-114.	0.3	39
56	Identification of XBP1-u as a novel regulator of the MDM2/p53 axis using an shRNA library. Science Advances, 2017, 3, e1701383.	10.3	38
57	Know-how of RNA interference and its applications in research and therapy. Mutation Research - Reviews in Mutation Research, 2004, 567, 71-84.	5.5	36
58	Cloning of cDNA and amino acid sequence of one of chicken cone visual pigments. Biochemical and Biophysical Research Communications, 1990, 173, 1212-1217.	2.1	34
59	Proteomic analysis of the TGF- β 2 signaling pathway in pancreatic carcinoma cells using stable RNA interference to silence Smad4 expression. Biochemical and Biophysical Research Communications, 2004, 318, 289-296.	2.1	33
60	Inhibition of PHD3 by salidroside promotes neovascularization through cell-cell communications mediated by muscle-secreted angiogenic factors. Scientific Reports, 2017, 7, 43935.	3.3	32
61	Analysis of Double-stranded RNA-induced Apoptosis Pathways Using Interferon-response Noninducible Small Interfering RNA Expression Vector Library*. Journal of Biological Chemistry, 2005, 280, 25687-25696.	3.4	31
62	Simultaneous suppression of MITF and BRAF ^{V600E} enhanced inhibition of melanoma cell proliferation. Cancer Science, 2009, 100, 1863-1869.	3.9	31
63	Yin Yang 1 induces transcriptional activity of p73 through cooperation with E2F1. Biochemical and Biophysical Research Communications, 2008, 365, 75-81.	2.1	29
64	The ASK family kinases differentially mediate induction of type I interferon and apoptosis during the antiviral response. Science Signaling, 2015, 8, ra78.	3.6	29
65	RNAi Expression Vectors in Mammalian Cells. , 2004, 252, 483-492.		27
66	Determination of the Role of DDX3 a Factor Involved in Mammalian RNAi Pathway Using an shRNA-Expression Library. PLoS ONE, 2013, 8, e59445.	2.5	27
67	GATA-3 suppresses IFN- β promoter activity independently of binding to cis-regulatory elements. FEBS Letters, 2004, 570, 63-68.	2.8	26
68	Genome-wide application of RNAi to the discovery of potential drug targets. FEBS Letters, 2005, 579, 5988-5995.	2.8	25
69	Suppression of Gene Expression by RNA Interference in Cultured Plant Cells. Oligonucleotides, 2001, 11, 359-367.	4.3	23
70	Elevating VEGF-A and PDGF-BB secretion by salidroside enhances neoangiogenesis in diabetic hind-limb ischemia. Oncotarget, 2017, 8, 97187-97205.	1.8	23
71	Control of siRNA expression utilizing Cre-loxP recombination system. Nucleic Acids Symposium Series, 2003, 3, 255-256.	0.3	21
72	Zinc-finger protein p52-ZER6 accelerates colorectal cancer cell proliferation and tumour progression through promoting p53 ubiquitination. EBioMedicine, 2019, 48, 248-263.	6.1	21

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73	Transcription factor Yin Yang 2 is a novel regulator of the p53/p21 axis. <i>Oncotarget</i> , 2017, 8, 54694-54707.	1.8	21
74	Development of aptamer-based inhibitors for CRISPR/Cas system. <i>Nucleic Acids Research</i> , 2021, 49, 1330-1344.	14.5	19
75	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.	3.9	19
76	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, 1062-1066.	2.1	17
77	Small-Interfering-RNA Expression in Cells Based on an Efficiently Constructed Dumbbell-Shaped DNA. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 3160-3163.	13.8	17
78	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.	2.0	17
79	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, 1145-1149.	3.4	16
80	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, 536-541.	2.3	16
81	siRNA becomes smart and intelligent. <i>Nature Biotechnology</i> , 2005, 23, 946-947.	17.5	16
82	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, 602-609.	3.4	16
83	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, 141-147.	3.1	15
84	Homeostasis Imbalance of YY2 and YY1 Promotes Tumor Growth by Manipulating Ferroptosis. <i>Advanced Science</i> , 2022, 9, e2104836.	11.2	15
85	Ribozymes: Applications to Functional Analysis and Gene Discovery. <i>Journal of Biochemistry</i> , 2004, 136, 133-147.	1.7	13
86	TRAIL-induced cell death cooperates with IFN- γ activation in the graft-versus-tumor effect against colon tumors. <i>International Journal of Cancer</i> , 2006, 118, 2237-2246.	5.1	13
87	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, 313-325.	2.0	13
88	Novel Methods for Expressing RNA Interference in Human Cells. <i>Methods in Enzymology</i> , 2005, 392, 97-112.	1.0	12
89	An Excellent Monitoring System for Surface Ubiquitination-Induced Internalization in Mammals. <i>PLoS ONE</i> , 2008, 3, e1490.	2.5	12
90	A fast, simple method for screening radiation susceptibility genes by RNA interference. <i>Biochemical and Biophysical Research Communications</i> , 2005, 333, 1370-1377.	2.1	11

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91	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.	6.1	10
92	NeuroD1 promotes tumor cell proliferation and tumorigenesis by directly activating the pentose phosphate pathway in colorectal carcinoma. <i>Oncogene</i> , 2021, 40, 6736-6747.	5.9	10
93	Knockdown of the bovine prion gene PRNP by RNA interference (RNAi) technology. <i>BMC Biotechnology</i> , 2007, 7, 44.	3.3	9
94	Analysis of ATP and AMP binding to a DNA aptamer and its imidazole-tethered derivatives by surface plasmon resonance. <i>Analyst</i> , The, 2015, 140, 5881-5884.	3.5	9
95	Biochemical and structural features of extracellular vesicle-binding RNA aptamers. <i>Biomedical Reports</i> , 2017, 6, 615-626.	2.0	8
96	Establishment of Stable hFis1 Knockdown Cells with an siRNA Expression Vector. <i>Journal of Biochemistry</i> , 2004, 136, 421-425.	1.7	7
97	Zn ²⁺ -dependent DNazymes that cleave all combinations of ribonucleotides. <i>Communications Biology</i> , 2021, 4, 221.	4.4	7
98	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, 669-674.	2.1	6
99	Screening of siRNA target sequences by using fragmented DNA. <i>Journal of Gene Medicine</i> , 2006, 8, 782-791.	2.8	6
100	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, 1131-1138.	7.2	6
101	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.	2.1	6
102	Discovery of Salidroside-Derived Glycoside Analogues as Novel Angiogenesis Agents to Treat Diabetic Hind Limb Ischemia. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 135-162.	6.4	6
103	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, 415-427.	1.4	5
104	Cancer-derived VEGF plays no role in malignant ascites formation in the mouse. <i>World Journal of Gastroenterology</i> , 2005, 11, 5455.	3.3	5
105	Genome-Wide Screening by Using Small-Interfering RNA Expression Libraries. , 2007, 360, 131-142.		4
106	Altered phospholipid molecular species and glycolipid composition in brain, liver and fibroblasts of Zellweger syndrome. <i>Neuroscience Letters</i> , 2013, 552, 71-75.	2.1	4
107	Synergistic cooperation of MDM2 and E2F1 contributes to TAp73 transcriptional activity. <i>Biochemical and Biophysical Research Communications</i> , 2014, 449, 319-326.	2.1	4
108	Transport of intracellularly active ribozymes to the cytoplasm. <i>Cancer Chemotherapy and Pharmacology</i> , 2001, 48, S96-S101.	2.3	3

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109	Stimulatory Effect of an Indirectly Attached RNA Helicase-Recruiting Sequence on the Suppression of Gene Expression by Antisense Oligonucleotides. Oligonucleotides, 2003, 13, 9-17.	4.3	3
110	Chemistry-based RNA technologies: demonstration of usefulness of libraries of ribozymes and short hairpin RNAs (shRNAs). Nucleic Acids Symposium Series, 2005, 49, 91-92.	0.3	3
111	Defective repair of radiation-induced DNA damage is complemented by a CHORI-230-65K18 BAC clone on rat chromosome 4. Genomics, 2006, 87, 236-242.	2.9	2
112	Generation of highly specific vector-based shRNAi libraries directed against the entire human genome. , 2005, , 480-496.		1
113	Plasmid- Mediated Intracellular Expression of siRNAs. , 2004, , .		0
114	ShRNA Targeting p190BCR-ABL Successfully Eliminates Ph-ALL Cells with or without ABL Kinase Domain Mutation.. Blood, 2006, 108, 1838-1838.	1.4	0
115	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. Genes and Environment, 2009, 31, 15-23.	2.1	0
116	Engineered Ribozymes: Efficient Tools for Molecular Gene Therapy and Gene Discovery. , 2006, , 497-518.		0