Kumiko Ui-Tei

List of Publications by Year
in descending order

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78 papers	4,426 citations	236925 25 h-index	110387 64 g-index
80 all docs	80 docs citations	80 times ranked	5709 citing authors

#	Article	IF	Citations
1	CRISPRdirect: software for designing CRISPR/Cas guide RNA with reduced off-target sites. Bioinformatics, 2015, 31, 1120-1123.	4.1	935
2	Guidelines for the selection of highly effective siRNA sequences for mammalian and chick RNA interference. Nucleic Acids Research, 2004, 32, 936-948.	14.5	647
3	siDirect: highly effective, target-specific siRNA design software for mammalian RNA interference. Nucleic Acids Research, 2004, 32, W124-W129.	14.5	230
4	Short-Interfering-RNA-Mediated Gene Silencing in Mammalian Cells Requires Dicer and eIF2C Translation Initiation Factors. Current Biology, 2003, 13, 41-46.	3.9	205
5	siDirect 2.0: updated software for designing functional siRNA with reduced seed-dependent off-target effect. BMC Bioinformatics, 2009, 10, 392.	2.6	184
6	Functional dissection of siRNA sequence by systematic DNA substitution: modified siRNA with a DNA seed arm is a powerful tool for mammalian gene silencing with significantly reduced off-target effect. Nucleic Acids Research, 2008, 36, 2136-2151.	14.5	167
7	Formation of the male-specific muscle in female Drosophila by ectopic fruitless expression. Nature Cell Biology, 2000, 2, 500-506.	10.3	153
8	Human TNRC6A is an Argonaute-navigator protein for microRNA-mediated gene silencing in the nucleus. Rna, 2013, 19, 17-35.	3.5	152
9	Thermodynamic stability and Watsonâ€“Crick base pairing in the seed duplex are major determinants of the efficiency of the siRNA-based off-target effect. Nucleic Acids Research, 2008, 36, 7100-7109.	14.5	138
10	Heparan Sulfate Regulates Self-renewal and Pluripotency of Embryonic Stem Cells. Journal of Biological Chemistry, 2008, 283, 3594-3606.	3.4	99
11	Sensitive assay of RNA interference in Drosophila and Chinese hamster cultured cells using firefly luciferase gene as target. FEBS Letters, 2000, 479, 79-82.	2.8	94
12	LARK activates posttranscriptional expression of an essential mammalian clock protein, PERIOD1. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1859-1864.	7.1	84
13	Robust and Photocontrollable DNA Capsules Using Azobenzenes. Nano Letters, 2010, 10, 3560-3565.	9.1	84
14	Aph-1 Contributes to the Stabilization and Trafficking of the Î³-Secretase Complex through Mechanisms Involving Intermolecular and Intramolecular Interactions. Journal of Biological Chemistry, 2005, 280, 12967-12975.	3.4	79
15	siRNA Design Software for a Target Gene-Specific RNA Interference. Frontiers in Genetics, 2012, 3, 102.	2.3	77
16	Replacement of midgut epithelium in the greater wax moth, Galleria mellonela , during larval-pupal moult. Cell and Tissue Research, 2002, 308, 319-331.	2.9	69
17	Molecular Cloning and Characterization of a Novel 3â€²-Phosphoadenosine 5â€²-Phosphosulfate Transporter, PAPST2. Journal of Biological Chemistry, 2006, 281, 10945-10953.	3.4	67
18	Stability of miRNA 5â€²terminal and seed regions is correlated with experimentally observed miRNA-mediated silencing efficacy. Scientific Reports, 2012, 2, 996.	3.3	64

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19	LacdiNAc (GalNAcβ1-4GlcNAc) Contributes to Self-Renewal of Mouse Embryonic Stem Cells by Regulating Leukemia Inhibitory Factor/STAT3 Signaling. Stem Cells, 2011, 29, 641-650.	3.2	55
20	A-to-I editing in the miRNA seed region regulates target mRNA selection and silencing efficiency. Nucleic Acids Research, 2014, 42, 10050-10060.	14.5	55
21	The siRNA Non-seed Region and Its Target Sequences Are Auxiliary Determinants of Off-Target Effects. PLoS Computational Biology, 2015, 11, e1004656.	3.2	46
22	LGP2 virus sensor regulates gene expression network mediated by TRBP-bound microRNAs. Nucleic Acids Research, 2018, 46, 9134-9147.	14.5	41
23	Differential Binding of Three Major Human ADAR Isoforms to Coding and Long Non-Coding Transcripts. Genes, 2017, 8, 68.	2.4	34
24	E-Cadherin Is Transcriptionally Activated via Suppression of ZEB1 Transcriptional Repressor by Small RNA-Mediated Gene Silencing. PLoS ONE, 2011, 6, e28688.	2.5	34
25	Fc gamma receptor IIb participates in maternal IgG trafficking of human placental endothelial cells. International Journal of Molecular Medicine, 2015, 35, 1273-1289.	4.0	32
26	Interactions between the non-seed region of siRNA and RNA-binding RLC/RISC proteins, Ago and TRBP, in mammalian cells. Nucleic Acids Research, 2014, 42, 5256-5269.	14.5	27
27	A novel gene derived from developing spinal cords, SCDGF , is a unique member of the PDGF/VEGF family. FEBS Letters, 2000, 475, 97-102.	2.8	26
28	Chemical Modification of the siRNA Seed Region Suppresses Off-Target Effects by Steric Hindrance to Base-Pairing with Targets. ACS Omega, 2017, 2, 2055-2064.	3.5	26
29	Molecular cloning and characterization of avian bombesin-like peptide receptors: new tools for investigating molecular basis for ligand selectivity. British Journal of Pharmacology, 2003, 139, 555-566.	5.4	25
30	Control of the localization and function of a miRNA silencing component TNRC6A by Argonaute protein. Nucleic Acids Research, 2015, 43, gkv1026.	14.5	25
31	Deubiquitylase USP25 prevents degradation of BCR-ABL protein and ensures proliferation of Ph-positive leukemia cells. Oncogene, 2020, 39, 3867-3878.	5.9	25
32	Thermodynamic Control of Small RNA-Mediated Gene Silencing. Frontiers in Genetics, 2012, 3, 101.	2.3	24
33	Guidelines for the Selection of Effective Short-Interfering RNA Sequences for Functional Genomics. , 2007, 361, 201-216.		22
34	The expression of SCDGF/PDGF-C/fallotein and SCDGF-B/PDGF-D in the rat central nervous system. Mechanisms of Development, 2002, 112, 161-164.	1.7	21
35	Fluctuation of Rac1 activity is associated with the phenotypic and transcriptional heterogeneity of glioma cells. Journal of Cell Science, 2014, 127, 1805-1815.	2.0	21
36	Optimal choice of functional and off-target effect-reduced siRNAs for RNAi therapeutics. Frontiers in Genetics, 2013, 4, 107.	2.3	20

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37	Distinguishable In Vitro Binding Mode of Monomeric TRBP and Dimeric PACT with siRNA. PLoS ONE, 2013, 8, e63434.	2.5	20
38	Laminin-dependent integrin clustering with tyrosine-phosphorylated molecules in a Drosophila neuronal cell line. Neuroscience Letters, 1998, 244, 149-152.	2.1	19
39	Modulation of MicroRNA Processing by Dicer via Its Associated dsRNA Binding Proteins. Non-coding RNA, 2021, 7, 57.	2.6	19
40	Chemical analysis of neurotransmitter candidates in clonal cell lines from Drosophila central nervous system. I. ACh and l-DOPA. Neuroscience Letters, 1994, 174, 85-88.	2.1	18
41	H-7-induced apoptosis in the cells of a Drosophila neuronal cell line through affecting unidentified H-7-sensitive substance(s). Neuroscience Research, 1998, 31, 113-121.	1.9	17
42	Ouabagenin is a naturally occurring LXR ligand without causing hepatic steatosis as a side effect. Scientific Reports, 2018, 8, 2305.	3.3	17
43	Expression of DDAH1 in chick and rat embryos. Developmental Brain Research, 2004, 148, 223-232.	1.7	16
44	Virus Sensor RIG-I Represses RNA Interference by Interacting with TRBP through LGP2 in Mammalian Cells. Genes, 2018, 9, 511.	2.4	16
45	Molecular Cloning of SCDGF-B, a Novel Growth Factor Homologous to SCDGF/PDGF-C/fallotein. Biochemical and Biophysical Research Communications, 2001, 280, 733-737.	2.1	15
46	LGP2 virus sensor enhances apoptosis by upregulating apoptosis regulatory genes through TRBP-bound miRNAs during viral infection. Nucleic Acids Research, 2020, 48, 1494-1507.	14.5	15
47	Induction of apoptosis in a Drosophila neuronal cell line by calcium ionophore. Neuroscience Letters, 1996, 203, 191-194.	2.1	13
48	Essential Notes Regarding the Design of Functional siRNAs for Efficient Mammalian RNAi. Journal of Biomedicine and Biotechnology, 2006, 2006, 1-8.	3.0	13
49	Base-pairing probability in the microRNA stem region affects the binding and editing specificity of human A-to-I editing enzymes ADAR1-p110 and ADAR2. RNA Biology, 2018, 15, 976-989.	3.1	13
50	Mutual Regulation of RNA Silencing and the IFN Response as an Antiviral Defense System in Mammalian Cells. International Journal of Molecular Sciences, 2020, 21, 1348.	4.1	13
51	Chemical analysis of neurotransmitter candidates in clonal cell lines from Drosophila central nervous system, II: neuropeptides and amino acids. Neuroscience Letters, 1995, 195, 187-190.	2.1	12
52	Enhancement of single guide RNA transcription for efficient CRISPR/Cas-based genomic engineering. Genome, 2017, 60, 537-545.	2.0	12
53	Computational Prediction of CRISPR/Cas9 Target Sites Reveals Potential Off-Target Risks in Human and Mouse. Methods in Molecular Biology, 2017, 1630, 43-53.	0.9	11
54	siRNA Seed Region Is Divided into Two Functionally Different Domains in RNA Interference in Response to 2â€²-OMe Modifications. ACS Omega, 2022, 7, 2398-2410.	3.5	11

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55	Comprehensive Identification of Nuclear and Cytoplasmic TNRC6A-Associating Proteins. Journal of Molecular Biology, 2017, 429, 3319-3333.	4.2	10
56	Fluctuation of Global Gene Expression by Endogenous miRNA Response to the Introduction of an Exogenous miRNA. International Journal of Molecular Sciences, 2013, 14, 11171-11189.	4.1	9
57	High-Quality Overlapping Paired-End Reads for the Detection of A-to-I Editing on Small RNA. Methods in Molecular Biology, 2018, 1823, 167-183.	0.9	8
58	The siRNA Off-Target Effect Is Determined by Base-Pairing Stabilities of Two Different Regions with Opposite Effects. Genes, 2022, 13, 319.	2.4	6
59	Adhesion-Dependent Tyrosine Phosphorylation of Enabled in Drosophila Neuronal Cell Line. Biochemical and Biophysical Research Communications, 2000, 270, 482-487.	2.1	5
60	Participation of Intracellular Ca2+/Calmodulin and Protein Kinase(s) in the Pathway of Apoptosis Induced by a Drosophila Cell Death Gene, reaper. Molecular Cell Biology Research Communications: MCBRC: Part B of Biochemical and Biophysical Research Communications, 2001, 4, 307-312.	1.6	5
61	Is the Efficiency of RNA Silencing Evolutionarily Regulated?. International Journal of Molecular Sciences, 2016, 17, 719.	4.1	5
62	TRBPâ€“Dicer interaction may enhance HIV-1 TAR RNA translation via TAR RNA processing, repressing host-cell apoptosis. Biology Open, 2020, 9, .	1.2	5
63	Selection of Chemical Modifications in the siRNA Seed Region That Repress Off-Target Effect. Methods in Molecular Biology, 2021, 2282, 17-30.	0.9	5
64	Identification of Phosphorylated Amino Acids in Human TNRC6A C-Terminal Region and Their Effects on the Interaction with the CCR4-NOT Complex. Genes, 2021, 12, 271.	2.4	3
65	1235 A protein kinase inhibitor, h-7, induces apoptosis in a drosophila neuronal cell line. Neuroscience Research, 1996, 25, S137.	1.9	1
66	Introduction of silencingâ€inducing transgene against Fgf19 does not affect expression of Tbx5 and Î²3â€tubulin in the developing chicken retina. Development Growth and Differentiation, 2008, 50, 159-168.	1.5	1
67	RNAi microarray by reverse transfection of siRNA and shRNA for functional genomics. , 2008, , .		1
68	Reduced base-base interactions between the DNA seed and RNA target are the major determinants of a significant reduction in the off-target effect due to DNA-seed-containing siRNA. , 2009, , .		1
69	Functional shRNA expression system with reduced off-target effects. , 2009, , .		1
70	Current Status for Application of RNA Interference Technology as Nucleic Acid Drug. , 0, , .		1
71	A robust model for quantitative prediction of the silencing efficacy of wild-type and A-to-I edited miRNAs. RNA Biology, 2020, 17, 264-280.	3.1	1
72	Knockdown of 15-bp Deletion-Type v-raf Murine Sarcoma Viral Oncogene Homolog B1 mRNA in Pancreatic Ductal Adenocarcinoma Cells Repressed Cell Growth In Vitro and Tumor Volume In Vivo. Cancers, 2022, 14, 3162.	3.7	1

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73	Apoptosis-like DNA fragmentation in clonal cell lines from Drosophila larval CNS. Neuroscience Research Supplement: the Official Journal of the Japan Neuroscience Society, 1994, 19, S88.	0.0	0
74	1217 Effects of protein kinase inhibitors on survival of motoneurons in chick embryo in vitro. Neuroscience Research, 1996, 25, S131.	1.9	0
75	Purification of a novel substance from skeletal muscles with motoneuron survival activity. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 1999, 75, 54-58.	3.8	0
76	Identification of RNA as a substance responsible for the survival of chick spinal motoneurons in vitro. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 1999, 75, 59-63.	3.8	0
77	DNA-modified siRNA-dependent gene silencing with reduced off-target effect is induced through a pathway parallel to that for siRNA-mediated RNA interference. , 2008, , .		0
78	RNAi-mediated knockdown of mouse melanocortin-4 receptor in vitro and in vivo, using an siRNA expression construct based on the mir-187 precursor. Experimental Animals, 2017, 66, 41-50.	1.1	0