

# Yoshio Kato

## List of Publications by Year in descending order

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41  
papers

2,683  
citations

471509

17  
h-index

315739

38  
g-index

42  
all docs

42  
docs citations

42  
times ranked

4106  
citing authors

#	ARTICLE	IF	CITATIONS
1	MicroRNA-140 is expressed in differentiated human articular chondrocytes and modulates interleukin-1 responses. <i>Arthritis and Rheumatism</i> , 2009, 60, 2723-2730.	6.7	507
2	MicroRNA-140 plays dual roles in both cartilage development and homeostasis. <i>Genes and Development</i> , 2010, 24, 1173-1185.	5.9	502
3	Mesenchymal Stem Cell-Derived Exosomes Promote Fracture Healing in a Mouse Model. <i>Stem Cells Translational Medicine</i> , 2016, 5, 1620-1630.	3.3	325
4	Targeted gene knockout by direct delivery of zinc-finger nuclease proteins. <i>Nature Methods</i> , 2012, 9, 805-807.	19.0	283
5	Exosome-formed synthetic microRNA-143 is transferred to osteosarcoma cells and inhibits their migration. <i>Biochemical and Biophysical Research Communications</i> , 2014, 445, 381-387.	2.1	213
6	Translational Suppression of Atrophic Regulators by MicroRNA-23a Integrates Resistance to Skeletal Muscle Atrophy. <i>Journal of Biological Chemistry</i> , 2011, 286, 38456-38465.	3.4	165
7	L-Sox5 and Sox6 Proteins Enhance Chondrogenic miR-140 MicroRNA Expression by Strengthening Dimeric Sox9 Activity. <i>Journal of Biological Chemistry</i> , 2012, 287, 22206-22215.	3.4	79
8	Sequence-specific interference by small RNAs derived from adenovirus VAI RNA. <i>FEBS Letters</i> , 2006, 580, 1553-1564.	2.8	77
9	Relationships between the Activities in Vitro and in Vivo of Various Kinds of Ribozyme and Their Intracellular Localization in Mammalian Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 15378-15385.	3.4	75
10	Oscillating high-aspect-ratio monolithic silicon nanoneedle array enables efficient delivery of functional bio-macromolecules into living cells. <i>Scientific Reports</i> , 2015, 5, 15325.	3.3	57
11	MicroRNA-296 is enriched in cancer cells and downregulates p21WAF1 mRNA expression via interaction with its 3' untranslated region. <i>Nucleic Acids Research</i> , 2011, 39, 8078-8091.	14.5	42
12	Real-time functional imaging for monitoring miR-133 during myogenic differentiation. <i>International Journal of Biochemistry and Cell Biology</i> , 2009, 41, 2225-2231.	2.8	31
13	A method using electroporation for the protein delivery of Cre recombinase into cultured Arabidopsis cells with an intact cell wall. <i>Scientific Reports</i> , 2019, 9, 2163.	3.3	25
14	Linear double-stranded DNA that mimics an infective tail of virus genome to enhance transfection. <i>Journal of Controlled Release</i> , 2005, 108, 529-539.	9.9	22
15	A lentiviral vector encoding two fluorescent proteins enables imaging of adenoviral infection via adenovirus-encoded miRNAs in single living cells. <i>Journal of Biochemistry</i> , 2010, 147, 63-71.	1.7	22
16	Phosphorylation at 5' end of guanosine stretches inhibits dimerization of G-quadruplexes and formation of a G-quadruplex interferes with the enzymatic activities of DNA enzymes. <i>Nucleic Acids Research</i> , 2004, 32, 4618-4629.	14.5	19
17	Direct Delivery of Cas9-sgRNA Ribonucleoproteins into Cells Using a Nanoneedle Array. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 965.	2.5	19
18	Development of aptamer-based inhibitors for CRISPR/Cas system. <i>Nucleic Acids Research</i> , 2021, 49, 1330-1344.	14.5	19

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19	MicroRNA-23a has minimal effect on endurance exercise-induced adaptation of mouse skeletal muscle. <i>Pflugers Archiv European Journal of Physiology</i> , 2015, 467, 389-398.	2.8	18
20	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
21	Loss-of-function screening to identify miRNAs involved in senescence: tumor suppressor activity of miRNA-335 and its new target CARF. <i>Scientific Reports</i> , 2016, 6, 30185.	3.3	17
22	Bioluminescent imaging of <i>Arabidopsis thaliana</i> using an enhanced Nano-lantern luminescence reporter system. <i>PLoS ONE</i> , 2020, 15, e0227477.	2.5	16
23	Analysis of the Conserved P9-G10.1 Metal-Binding Motif in Hammerhead Ribozymes with an Extra Nucleotide Inserted between A9 and G10.1 Residues. <i>Journal of the American Chemical Society</i> , 2004, 126, 12291-12297.	13.7	15
24	Carnosic acid attenuates cartilage degeneration through induction of heme oxygenase-1 in human articular chondrocytes. <i>European Journal of Pharmacology</i> , 2018, 830, 1-8.	3.5	15
25	Expression of siRNA from a Single Transcript That Includes Multiple Ribozymes in Mammalian Cells. <i>Oligonucleotides</i> , 2003, 13, 335-343.	2.7	12
26	Sensitive and long-term monitoring of intracellular microRNAs using a non-integrating cytoplasmic RNA vector. <i>Scientific Reports</i> , 2017, 7, 12673.	3.3	12
27	Functional gene-discovery systems based on libraries of hammerhead and hairpin ribozymes and short hairpin RNAs. <i>Molecular BioSystems</i> , 2005, 1, 27.	2.9	9
28	A genome editing vector that enables easy selection and identification of knockout cells. <i>Plasmid</i> , 2018, 98, 37-44.	1.4	9
29	Variational inequalities of Bingham type in three dimensions. <i>Nagoya Mathematical Journal</i> , 1993, 129, 53-95.	0.8	8
30	On a Bingham fluid whose viscosity and yield limit depend on the temperature. <i>Nagoya Mathematical Journal</i> , 1992, 128, 1-14.	0.8	7
31	An efficient fluorescent method for selective detection of mature miRNA species. <i>Nucleic Acids Symposium Series</i> , 2008, 52, 71-72.	0.3	7
32	Stress responsive miR-23a attenuates skeletal muscle atrophy by targeting MAFbx /atrogen-1. <i>Nature Precedings</i> , 2008, , .	0.1	7
33	ATP-mediated Release of a DNA-binding Protein from a Silicon Nanoneedle Array. <i>Electrochemistry</i> , 2016, 84, 305-307.	1.4	6
34	DNA aptamers against FokI nuclease domain for genome editing applications. <i>Biosensors and Bioelectronics</i> , 2017, 93, 26-31.	10.1	6
35	Live-cell imaging of microRNA expression with post-transcriptional feedback control. <i>Molecular Therapy - Nucleic Acids</i> , 2021, 26, 547-556.	5.1	5
36	Microneedle Array-Assisted, Direct Delivery of Genome-Editing Proteins Into Plant Tissue. <i>Frontiers in Plant Science</i> , 0, 13, .	3.6	5

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37	Asymmetric Roles of Two Histidine Residues in Streptococcus pyogenes Cas9 Catalytic Domains upon Chemical Rescue. <i>Biochemistry</i> , 2021, 60, 194-200.	2.5	4
38	Functional Gene Discovery Using Hybrid Ribozyme Libraries. , 2004, 252, 245-256.		3
39	Analysis of processing-defective variants of human tRNA(Val). <i>Nucleic Acids Symposium Series</i> , 2003, 3, 283-284.	0.3	1
40	Selection and Characterization of DNA Aptamers Against FokI Nuclease Domain. <i>Methods in Molecular Biology</i> , 2018, 1867, 165-174.	0.9	0
41	Translational Suppression of Atrogin-1 and MuRF1 by miR-23a Integrates Resistance to Skeletal Muscle Atrophy. <i>FASEB Journal</i> , 2012, 26, 1086.3.	0.5	0