

Mahito Nakanishi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114 papers	3,806 citations	33 h-index	59 g-index
120 ext. papers	4,404 ext. citations	6 avg, IF	4.64 L-index

#	Paper	IF	Citations
114	Generation of rejuvenated antigen-specific T cells by reprogramming to pluripotency and redifferentiation. <i>Cell Stem Cell</i> , 2013 , 12, 114-26	18	257
113	Transient activation of c-MYC expression is critical for efficient platelet generation from human induced pluripotent stem cells. <i>Journal of Experimental Medicine</i> , 2010 , 207, 2817-30	16.6	255
112	Development of defective and persistent Sendai virus vector: a unique gene delivery/expression system ideal for cell reprogramming. <i>Journal of Biological Chemistry</i> , 2011 , 286, 4760-71	5.4	251
111	Protein transduction domain of HIV-1 Tat protein promotes efficient delivery of DNA into mammalian cells. <i>Journal of Biological Chemistry</i> , 2001 , 276, 26204-10	5.4	222
110	Initiation of Sendai virus multiplication from transfected cDNA or RNA with negative or positive sense. <i>Genes To Cells</i> , 1996 , 1, 569-79	2.3	216
109	Genetic Variability Overrides the Impact of Parental Cell Type and Determines iPSC Differentiation Potential. <i>Stem Cell Reports</i> , 2016 , 6, 200-12	8	150
108	Prediction of interindividual differences in hepatic functions and drug sensitivity by using human iPS-derived hepatocytes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16772-7	11.5	139
107	C9orf72 Hexanucleotide Expansions Are Associated with Altered Endoplasmic Reticulum Calcium Homeostasis and Stress Granule Formation in Induced Pluripotent Stem Cell-Derived Neurons from Patients with Amyotrophic Lateral Sclerosis and Frontotemporal Dementia. <i>Stem Cells</i> , 2016 , 34, 2063-78	5.8	133
106	Positively charged liposome functions as an efficient immunoadjuvant in inducing cell-mediated immune response to soluble proteins. <i>Journal of Controlled Release</i> , 1999 , 61, 233-40	11.7	122
105	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
104	Efficient introduction of contents of liposomes into cells using HVJ (Sendai virus). <i>Experimental Cell Research</i> , 1985 , 159, 399-409	4.2	84
103	Development of Sendai virus vectors and their potential applications in gene therapy and regenerative medicine. <i>Current Gene Therapy</i> , 2012 , 12, 410-6	4.3	75
102	Enhancing T Cell Receptor Stability in Rejuvenated iPSC-Derived T Cells Improves Their Use in Cancer Immunotherapy. <i>Cell Stem Cell</i> , 2018 , 23, 850-858.e4	18	69
101	Efficient gene transfer into mammalian cells using fusogenic liposome. <i>Biochemical and Biophysical Research Communications</i> , 1996 , 218, 402-7	3.4	68
100	Expansion of functional human mucosal-associated invariant T cells via reprogramming to pluripotency and redifferentiation. <i>Cell Stem Cell</i> , 2013 , 12, 546-58	18	66
99	Assessing similarity to primary tissue and cortical layer identity in induced pluripotent stem cell-derived cortical neurons through single-cell transcriptomics. <i>Human Molecular Genetics</i> , 2016 , 25, 989-1000	5.6	64
98	Podocalyxin is a glycoprotein ligand of the human pluripotent stem cell-specific probe rBC2LCN. <i>Stem Cells Translational Medicine</i> , 2013 , 2, 265-73	6.9	57

97	Fusogenic liposomes efficiently deliver exogenous antigen through the cytoplasm into the MHC class I processing pathway. <i>European Journal of Immunology</i> , 2000 , 30, 1740-7	6.1	56
96	Systematic Cellular Disease Models Reveal Synergistic Interaction of Trisomy 21 and GATA1 Mutations in Hematopoietic Abnormalities. <i>Cell Reports</i> , 2016 , 15, 1228-41	10.6	56
95	Biosynthesis of ribosomal RNA in nucleoli regulates pluripotency and differentiation ability of pluripotent stem cells. <i>Stem Cells</i> , 2014 , 32, 3099-111	5.8	53
94	A Safeguard System for Induced Pluripotent Stem Cell-Derived Rejuvenated T Cell Therapy. <i>Stem Cell Reports</i> , 2015 , 5, 597-608	8	49
93	Expression of long anti-HIV-1 hairpin RNAs for the generation of multiple siRNAs: advantages and limitations. <i>Molecular Therapy</i> , 2008 , 16, 170-7	11.7	48
92	Cellular Adjuvant Properties, Direct Cytotoxicity of Re-differentiated V α 4 Invariant NKT-like Cells from Human Induced Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2016 , 6, 213-27	8	48
91	GPAT2, a mitochondrial outer membrane protein, in piRNA biogenesis in germline stem cells. <i>Rna</i> , 2013 , 19, 803-10	5.8	45
90	Optimization of nuclear localization signal for nuclear transport of DNA-encapsulating particles. <i>Journal of Controlled Release</i> , 2005 , 104, 507-19	11.7	45
89	Morphological features of iPS cells generated from Fabry disease skin fibroblasts using Sendai virus vector (SeVdp). <i>Molecular Genetics and Metabolism</i> , 2013 , 109, 386-9	3.7	43
88	Simple and effective generation of transgene-free induced pluripotent stem cells using an auto-erasable Sendai virus vector responding to microRNA-302. <i>Stem Cell Research</i> , 2017 , 23, 13-19	1.6	42
87	Basic peptides as functional components of non-viral gene transfer vehicles. <i>Current Protein and Peptide Science</i> , 2003 , 4, 141-50	2.8	38
86	Novel mucosal insulin delivery systems based on fusogenic liposomes. <i>Pharmaceutical Research</i> , 2006 , 23, 384-91	4.5	37
85	Functional Neurons Generated from T Cell-Derived Induced Pluripotent Stem Cells for Neurological Disease Modeling. <i>Stem Cell Reports</i> , 2016 , 6, 422-35	8	36
84	Repurposing the Cord Blood Bank for Haplobanking of HLA-Homozygous iPSCs and Their Usefulness to Multiple Populations. <i>Stem Cells</i> , 2018 , 36, 1552-1566	5.8	36
83	Interspecific in vitro assay for the chimera-forming ability of human pluripotent stem cells. <i>Development (Cambridge)</i> , 2015 , 142, 3222-30	6.6	36
82	Manipulation of KLF4 expression generates iPSCs paused at successive stages of reprogramming. <i>Stem Cell Reports</i> , 2014 , 3, 915-29	8	33
81	Persistent and stable gene expression by a cytoplasmic RNA replicon based on a noncytopathic variant Sendai virus. <i>Journal of Biological Chemistry</i> , 2007 , 282, 27383-27391	5.4	33
80	Vascular Smooth Muscle Cells From Hypertensive Patient-Derived Induced Pluripotent Stem Cells to Advance Hypertension Pharmacogenomics. <i>Stem Cells Translational Medicine</i> , 2015 , 4, 1380-90	6.9	31

79	Development Refractoriness of MLL-Rearranged Human B Cell Acute Leukemias to Reprogramming into Pluripotency. <i>Stem Cell Reports</i> , 2016 , 7, 602-618	8	29
78	Reprogramming human B cells into induced pluripotent stem cells and its enhancement by C/EBP β . <i>Leukemia</i> , 2016 , 30, 674-82	10.7	29
77	TRF1 is a critical trans-acting factor required for de novo telomere formation in human cells. <i>Human Molecular Genetics</i> , 2000 , 9, 2639-50	5.6	26
76	Advanced feeder-free generation of induced pluripotent stem cells directly from blood cells. <i>Stem Cells Translational Medicine</i> , 2014 , 3, 1402-9	6.9	24
75	CRISPR/Cas9 knockout of USP18 enhances type I IFN responsiveness and restricts HIV-1 infection in macrophages. <i>Journal of Leukocyte Biology</i> , 2018 , 103, 1225	6.5	23
74	The Fab portion of immunoglobulin G contributes to its binding to Fc γ Receptor III. <i>Scientific Reports</i> , 2019 , 9, 11957	4.9	23
73	Gene transfer vectors based on Sendai virus. <i>Journal of Controlled Release</i> , 1998 , 54, 61-8	11.7	23
72	Nuclear targeting of DNA. <i>European Journal of Pharmaceutical Sciences</i> , 2001 , 13, 17-24	5.1	23
71	A Role for KLF4 in Promoting the Metabolic Shift via TCL1 during Induced Pluripotent Stem Cell Generation. <i>Stem Cell Reports</i> , 2017 , 8, 787-801	8	22
70	Intratumor administration of fusogenic liposomes containing fragment A of diphtheria toxin suppresses tumor growth. <i>Cancer Letters</i> , 1996 , 100, 63-9	9.9	20
69	Targeted reversion of induced pluripotent stem cells from patients with human cleidocranial dysplasia improves bone regeneration in a rat calvarial bone defect model. <i>Stem Cell Research and Therapy</i> , 2018 , 9, 12	8.3	18
68	Cytoplasmic gene expression system enhances the efficiency of cationic liposome-mediated in vivo gene transfer into mouse brain. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 234, 15-8	3.4	18
67	Robust and highly efficient hiPSC generation from patient non-mobilized peripheral blood-derived CD34 cells using the auto-erasable Sendai virus vector. <i>Stem Cell Research and Therapy</i> , 2019 , 10, 185	8.3	17
66	Transforming growth factor-beta1 stimulates contraction of human glioblastoma cell-mediated collagen lattice through enhanced alpha2 integrin expression. <i>Journal of Neuropathology and Experimental Neurology</i> , 2000 , 59, 18-28	3.1	17
65	Generation of Footprint-Free Canine Induced Pluripotent Stem Cells Using Auto-Erasable Sendai Virus Vector. <i>Stem Cells and Development</i> , 2018 , 27, 1577-1586	4.4	17
64	Status of KRAS in iPSCs Impacts upon Self-Renewal and Differentiation \square Propensity. <i>Stem Cell Reports</i> , 2018 , 11, 380-394	8	16
63	Differential susceptibility of cells expressing allogeneic MHC or viral antigen to killing by antigen-specific CTL. <i>Microbiology and Immunology</i> , 2004 , 48, 15-25	2.7	15
62	Gene delivery systems using the Sendai virus. <i>Molecular Membrane Biology</i> , 1999 , 16, 123-7	3.4	15

61	iPSC Modeling of Presenilin1 Mutation in Alzheimer's Disease with Cerebellar Ataxia. <i>Experimental Neurobiology</i> , 2018 , 27, 350-364	4	15
60	Generation of TCR-Expressing Innate Lymphoid-like Helper Cells that Induce Cytotoxic T Cell-Mediated Anti-leukemic Cell Response. <i>Stem Cell Reports</i> , 2018 , 10, 1935-1946	8	15
59	Limited capacity of the nuclear matrix to bind telomere repeat binding factor TRF1 may restrict the proliferation of mortal human fibroblasts. <i>Human Molecular Genetics</i> , 2004 , 13, 285-93	5.6	13
58	Cellular Ontogeny and Hierarchy Influence the Reprogramming Efficiency of Human B Cells into Induced Pluripotent Stem Cells. <i>Stem Cells</i> , 2016 , 34, 581-7	5.8	13
57	Heme oxygenase-1 affects generation and spontaneous cardiac differentiation of induced pluripotent stem cells. <i>IUBMB Life</i> , 2018 , 70, 129-142	4.7	12
56	An inhibitor of fibroblast growth factor receptor-1 (FGFR1) promotes late-stage terminal differentiation from NGN3+ pancreatic endocrine progenitors. <i>Scientific Reports</i> , 2016 , 6, 35908	4.9	12
55	Identification and characterization of cell lines with a defect in a post-adsorption stage of Sendai virus-mediated membrane fusion. <i>Journal of Biological Chemistry</i> , 2000 , 275, 17549-55	5.4	12
54	Generation and characterization of a human iPSC cell line expressing inducible Cas9 in the "safe harbor" AAVS1 locus. <i>Stem Cell Research</i> , 2017 , 21, 137-140	1.6	11
53	Generation of cleidocranial dysplasia-specific human induced pluripotent stem cells in completely serum-, feeder-, and integration-free culture. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2016 , 52, 252-64	2.6	11
52	Enhancement of phage-mediated gene transfer by nuclear localization signal. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 297, 779-86	3.4	11
51	High Frequency Production of T Cell-Derived iPSC Clones Capable of Generating Potent Cytotoxic T Cells. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020 , 16, 126-135	6.4	11
50	Target-cell specificity of fusogenic liposomes: membrane fusion-mediated macromolecule delivery into human blood mononuclear cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1999 , 1416, 339-48	3.8	10
49	Epigenetic-scale comparison of human iPSCs generated by retrovirus, Sendai virus or episomal vectors. <i>Regenerative Therapy</i> , 2018 , 9, 71-78	3.7	10
48	Functional Analysis of Dendritic Cells Generated from T-iPSCs from CD4+ T Cell Clones of Sjögren's Syndrome. <i>Stem Cell Reports</i> , 2017 , 8, 1155-1163	8	9
47	Sensitive and long-term monitoring of intracellular microRNAs using a non-integrating cytoplasmic RNA vector. <i>Scientific Reports</i> , 2017 , 7, 12673	4.9	9
46	Sustainable Tumor-Suppressive Effect of iPSC-Derived Rejuvenated T Cells Targeting Cervical Cancers. <i>Molecular Therapy</i> , 2020 , 28, 2394-2405	11.7	9
45	Elimination of protein aggregates prevents premature senescence in human trisomy 21 fibroblasts. <i>PLoS ONE</i> , 2019 , 14, e0219592	3.7	9
44	A novel strategy for cancer therapy by mutated mammalian degenerin gene transfer. <i>Cancer Gene Therapy</i> , 2000 , 7, 1341-7	5.4	9

43	Gorlin syndrome-derived induced pluripotent stem cells are hypersensitive to hedgehog-mediated osteogenic induction. <i>PLoS ONE</i> , 2017 , 12, e0186879	3.7	8
42	HN glycoprotein of HVJ (Sendai virus) enhances the selective cytotoxicity of diphtheria toxin fragment A-containing liposomes on subacute sclerosing panencephalitis virus-infected cells. <i>Experimental Cell Research</i> , 1984 , 152, 313-21	4.2	8
41	Induction of integration-free human-induced pluripotent stem cells under serum- and feeder-free conditions. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2020 , 56, 85-95	2.6	8
40	4-Phenylbutyrate ameliorates apoptotic neural cell death in Down syndrome by reducing protein aggregates. <i>Scientific Reports</i> , 2020 , 10, 14047	4.9	8
39	IFN-gamma: a cytokine essential for rejection of CTL-resistant, virus-infected cells. <i>Journal of Interferon and Cytokine Research</i> , 2005 , 25, 328-37	3.5	7
38	Growth inhibition of human leukemia HL-60 cells by an antisense phosphodiester oligonucleotide encapsulated into fusogenic liposomes. <i>Biological and Pharmaceutical Bulletin</i> , 2000 , 23, 1011-3	2.3	7
37	Fusion of sendai virus with liposome depends on only F protein, but not HN protein. <i>Virus Research</i> , 1999 , 59, 191-201	6.4	7
36	Pathological manifestation of the induced pluripotent stem cell-derived cortical neurons from an early-onset Alzheimer's disease patient carrying a presenilin-1 mutation (S170F). <i>Cell Proliferation</i> , 2020 , 53, e12798	7.9	6
35	An assessment of the effects of ectopic gp91phox expression in XCGD iPSC-derived neutrophils. <i>Molecular Therapy - Methods and Clinical Development</i> , 2015 , 2, 15046	6.4	6
34	Sendai virus-mediated gene delivery into hepatocytes via isolated hepatic perfusion. <i>Biological and Pharmaceutical Bulletin</i> , 2006 , 29, 1728-34	2.3	6
33	Introduction of plasmid DNA and nuclear protein into cells by using erythrocyte ghosts, liposomes, and Sendai virus. <i>Methods in Enzymology</i> , 1993 , 221, 317-27	1.7	6
32	Distinctive features of single nucleotide alterations in induced pluripotent stem cells with different types of DNA repair deficiency disorders. <i>Scientific Reports</i> , 2016 , 6, 26342	4.9	6
31	Improved secretion of glycoproteins using an N-glycan-restricted passport sequence tag recognized by cargo receptor. <i>Nature Communications</i> , 2020 , 11, 1368	17.4	5
30	Novel Strategy to Control Transgene Expression Mediated by a Sendai Virus-Based Vector Using a Nonstructural C Protein and Endogenous MicroRNAs. <i>PLoS ONE</i> , 2016 , 11, e0164720	3.7	5
29	Modeling of Frontotemporal Dementia Using iPSC Technology. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
28	Regeneration of Tumor-Antigen-Specific Cytotoxic T Lymphocytes from iPSCs Transduced with Exogenous TCR Genes. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020 , 19, 250-260	6.4	5
27	Template Activating Factor-1 Regulates Retroviral Silencing during Reprogramming. <i>Cell Reports</i> , 2019 , 29, 1909-1922.e5	10.6	5
26	Efficient Reprogramming of Canine Peripheral Blood Mononuclear Cells into Induced Pluripotent Stem Cells. <i>Stem Cells and Development</i> , 2021 , 30, 79-90	4.4	5

25	The First Generation of iPSC Line from a Korean Alzheimer's Disease Patient Carrying APP-V715M Mutation Exhibits a Distinct Mitochondrial Dysfunction. <i>Experimental Neurobiology</i> , 2019 , 28, 329-336	4	4
24	Escherichia coli RecA protein modified with a nuclear location signal binds to chromosomes in living mammalian cells. <i>Experimental Cell Research</i> , 1992 , 198, 107-14	4.2	4
23	A Sendai Virus-Based Cytoplasmic RNA Vector as a Novel Platform for Long-Term Expression of MicroRNAs. <i>Molecular Therapy - Methods and Clinical Development</i> , 2019 , 15, 371-382	6.4	4
22	Novel Near-Infrared Fluorescence-Guided Surgery With Vesicular Stomatitis Virus for Complete Surgical Resection of Osteosarcomas in Mice. <i>Journal of Orthopaedic Research</i> , 2019 , 37, 1192-1201	3.8	3
21	Induction of Noonan syndrome-specific human-induced pluripotent stem cells under serum-, feeder-, and integration-free conditions. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2020 , 56, 888-895	2.6	3
20	Generation of three induced pluripotent stem cell lines from postmortem tissue derived following sudden death of a young patient with STXBP1 mutation. <i>Stem Cell Research</i> , 2019 , 39, 101485	1.6	3
19	Sufficiency for inducible Caspase-9 safety switch in human pluripotent stem cells and disease cells. <i>Gene Therapy</i> , 2019 , 27, 525-534	4	3
18	Generation of Footprint-Free Canine Induced Pluripotent Stem Cells from Peripheral Blood Mononuclear Cells Using Sendai Virus Vector. <i>Molecular Reproduction and Development</i> , 2020 , 87, 663-665	2.6	2
17	Metastatic tumor cells detection and anti-metastatic potential with vesicular stomatitis virus in immunocompetent murine model of osteosarcoma. <i>Journal of Orthopaedic Research</i> , 2018 , 36, 2562-2569	3.8	2
16	Dual usage of a stage-specific fluorescent reporter system based on a helper-dependent adenoviral vector to visualize osteogenic differentiation. <i>Scientific Reports</i> , 2019 , 9, 9705	4.9	2
15	Dual-antigen targeted iPSC-derived chimeric antigen receptor-T cell therapy for refractory lymphoma. <i>Molecular Therapy</i> , 2021 ,	11.7	2
14	Utilization of a novel Sendai virus vector in ex vivo gene therapy for hemophilia A. <i>International Journal of Hematology</i> , 2021 , 113, 493-499	2.3	2
13	Transient activation of c-MYC expression is critical for efficient platelet generation from human induced pluripotent stem cells. <i>Journal of Cell Biology</i> , 2010 , 191, i11-i11	7.3	1
12	Generation of disease-specific and CRISPR/Cas9-mediated gene-corrected iPS cells from a patient with adult progeria Werner syndrome. <i>Stem Cell Research</i> , 2021 , 53, 102360	1.6	1
11	Generation of a control human induced pluripotent stem cell line using the defective and persistent Sendai virus vector system. <i>Stem Cell Research</i> , 2021 , 56, 102549	1.6	1
10	Biological and Chemical Hybrid Vectors 2005 , 118-132		1
9	CD81 inhibition with the cytoplasmic RNA vector producing anti-CD81 antibodies suppresses arthritis in a rat CIA model.. <i>Biochemical and Biophysical Research Communications</i> , 2022 , 604, 22-29	3.4	1
8	Characterization of fusogenic liposomes as a gene transfer vector.. <i>Drug Delivery System</i> , 1996 , 11, 411-417		0

7	Canine induced pluripotent stem cell maintenance under feeder-free and chemically-defined conditions. <i>Molecular Reproduction and Development</i> , 2021 , 88, 395-404	2.6	○
6	iPSC-Derived Neoantigen-Specific CTL Therapy for Ewing Sarcoma. <i>Cancer Immunology Research</i> , 2021 , 9, 1175-1186	12.5	○
5	Production of therapeutic iduronate-2-sulfatase enzyme with a novel single-stranded RNA virus vector. <i>Genes To Cells</i> , 2021 , 26, 891-904	2.3	○
4	Development of novel RNA vectors capable of stable and persistent gene expression. <i>Drug Delivery System</i> , 2007 , 22, 620-627	○	
3	Efficient gene transfer using unilamellar fusogenic liposomes.. <i>Drug Delivery System</i> , 1994 , 9, 81-87	○	
2	Spatial and temporal control of drug delivery. Development of new vector systems for human gene therapy.. <i>Drug Delivery System</i> , 1995 , 10, 371-376	○	
1	Induced pluripotent stem cells from homozygous Runx2-deficient mice show poor response to vitamin D during osteoblastic differentiation.. <i>Medical Molecular Morphology</i> , 2022 , 1	2.3	