

Yuki Takahashi

List of Publications by Citations

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113
papers

3,758
citations

30
h-index

59
g-index

126
ext. papers

4,592
ext. citations

6.7
avg, IF

5.56
L-index

#	Paper	IF	Citations
113	Visualization and in vivo tracking of the exosomes of murine melanoma B16-BL6 cells in mice after intravenous injection. <i>Journal of Biotechnology</i> , 2013 , 165, 77-84	3.7	412
112	Macrophage-dependent clearance of systemically administered B16BL6-derived exosomes from the blood circulation in mice. <i>Journal of Extracellular Vesicles</i> , 2015 , 4, 26238	16.4	279
111	Exosome-based tumor antigens-adjuvant co-delivery utilizing genetically engineered tumor cell-derived exosomes with immunostimulatory CpG DNA. <i>Biomaterials</i> , 2016 , 111, 55-65	15.6	166
110	Quantitative analysis of tissue distribution of the B16BL6-derived exosomes using a streptavidin-lactadherin fusion protein and iodine-125-labeled biotin derivative after intravenous injection in mice. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 705-13	3.9	160
109	Biodegradable CpG DNA hydrogels for sustained delivery of doxorubicin and immunostimulatory signals in tumor-bearing mice. <i>Biomaterials</i> , 2011 , 32, 488-94	15.6	155
108	Possibility of Exosome-Based Therapeutics and Challenges in Production of Exosomes Eligible for Therapeutic Application. <i>Biological and Pharmaceutical Bulletin</i> , 2018 , 41, 835-842	2.3	137
107	Design and development of nanosized DNA assemblies in polypod-like structures as efficient vehicles for immunostimulatory CpG motifs to immune cells. <i>ACS Nano</i> , 2012 , 6, 5931-40	16.7	134
106	DNA nanotechnology-based composite-type gold nanoparticle-immunostimulatory DNA hydrogel for tumor photothermal immunotherapy. <i>Biomaterials</i> , 2017 , 146, 136-145	15.6	123
105	Cell type-specific and common characteristics of exosomes derived from mouse cell lines: Yield, physicochemical properties, and pharmacokinetics. <i>European Journal of Pharmaceutical Sciences</i> , 2017 , 96, 316-322	5.1	119
104	Pharmacokinetics of Exosomes-An Important Factor for Elucidating the Biological Roles of Exosomes and For the Development of Exosome-Based Therapeutics. <i>Journal of Pharmaceutical Sciences</i> , 2017 , 106, 2265-2269	3.9	108
103	Effect of exosome isolation methods on physicochemical properties of exosomes and clearance of exosomes from the blood circulation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016 , 98, 1-8	5.7	100
102	Injectable, self-gelling, biodegradable, and immunomodulatory DNA hydrogel for antigen delivery. <i>Journal of Controlled Release</i> , 2014 , 180, 25-32	11.7	95
101	Role of Phosphatidylserine-Derived Negative Surface Charges in the Recognition and Uptake of Intravenously Injected B16BL6-Derived Exosomes by Macrophages. <i>Journal of Pharmaceutical Sciences</i> , 2017 , 106, 168-175	3.9	94
100	Nonviral vector-mediated RNA interference: its gene silencing characteristics and important factors to achieve RNAi-based gene therapy. <i>Advanced Drug Delivery Reviews</i> , 2009 , 61, 760-6	18.5	87
99	Accelerated growth of B16BL6 tumor in mice through efficient uptake of their own exosomes by B16BL6 cells. <i>Cancer Science</i> , 2017 , 108, 1803-1810	6.9	69
98	Induction of Potent Antitumor Immunity by Sustained Release of Cationic Antigen from a DNA-Based Hydrogel with Adjuvant Activity. <i>Advanced Functional Materials</i> , 2015 , 25, 5758-5767	15.6	65
97	Preservation of exosomes at room temperature using lyophilization. <i>International Journal of Pharmaceutics</i> , 2018 , 553, 1-7	6.5	64

96	Self-assembling DNA dendrimer for effective delivery of immunostimulatory CpG DNA to immune cells. <i>Biomacromolecules</i> , 2015 , 16, 1095-101	6.9	56
95	Effect of the content of unmethylated CpG dinucleotides in plasmid DNA on the sustainability of transgene expression. <i>Journal of Gene Medicine</i> , 2009 , 11, 435-43	3.5	52
94	Sustained exogenous expression of therapeutic levels of IFN-gamma ameliorates atopic dermatitis in NC/Nga mice via Th1 polarization. <i>Journal of Immunology</i> , 2010 , 184, 2729-35	5.3	50
93	Inhibition of experimental hepatic metastasis by targeted delivery of catalase in mice. <i>Clinical and Experimental Metastasis</i> , 2004 , 21, 213-21	4.7	49
92	Role of Extracellular Vesicle Surface Proteins in the Pharmacokinetics of Extracellular Vesicles. <i>Molecular Pharmaceutics</i> , 2018 , 15, 1073-1080	5.6	48
91	Blood concentrations of small extracellular vesicles are determined by a balance between abundant secretion and rapid clearance. <i>Journal of Extracellular Vesicles</i> , 2020 , 9, 1696517	16.4	44
90	Near-infrared fluorescence probes for enzymes based on binding affinity modulation of squarylium dye scaffold. <i>Analytical Chemistry</i> , 2012 , 84, 4404-10	7.8	43
89	Enhanced Class I Tumor Antigen Presentation via Cytosolic Delivery of Exosomal Cargos by Tumor-Cell-Derived Exosomes Displaying a pH-Sensitive Fusogenic Peptide. <i>Molecular Pharmaceutics</i> , 2017 , 14, 4079-4086	5.6	41
88	Gene silencing in primary and metastatic tumors by small interfering RNA delivery in mice: quantitative analysis using melanoma cells expressing firefly and sea pansy luciferases. <i>Journal of Controlled Release</i> , 2005 , 105, 332-43	11.7	38
87	The Aldo-keto reductase Akr1b7 gene is a common transcriptional target of xenobiotic receptors pregnane X receptor and constitutive androstane receptor. <i>Molecular Pharmacology</i> , 2009 , 76, 604-11	4.3	37
86	Self-assembling DNA hydrogel-based delivery of immunoinhibitory nucleic acids to immune cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 123-30	6	33
85	Reactivation of silenced transgene expression in mouse liver by rapid, large-volume injection of isotonic solution. <i>Human Gene Therapy</i> , 2008 , 19, 1009-20	4.8	31
84	Induction of tumor-specific immune response by gene transfer of Hsp70-cell-penetrating peptide fusion protein to tumors in mice. <i>Molecular Therapy</i> , 2010 , 18, 421-8	11.7	30
83	Depressive symptoms as a side effect of Interferon- β therapy induced by induction of indoleamine 2,3-dioxygenase 1. <i>Scientific Reports</i> , 2016 , 6, 29920	4.9	30
82	Efficient delivery of immunostimulatory DNA to mouse and human immune cells through the construction of polypod-like structured DNA. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014 , 10, 765-74	6	29
81	Transplantation of insulin-secreting multicellular spheroids for the treatment of type 1 diabetes in mice. <i>Journal of Controlled Release</i> , 2014 , 173, 119-24	11.7	28
80	Improved sustained release of antigen from immunostimulatory DNA hydrogel by electrostatic interaction with chitosan. <i>International Journal of Pharmaceutics</i> , 2017 , 516, 392-400	6.5	27
79	DNA nanotechnology-based development of delivery systems for bioactive compounds. <i>European Journal of Pharmaceutical Sciences</i> , 2014 , 58, 26-33	5.1	27

78	Improved anti-cancer effect of interferon gene transfer by sustained expression using CpG-reduced plasmid DNA. <i>International Journal of Cancer</i> , 2007 , 121, 401-6	7.5	26
77	Poly(N-isopropylacrylamide)-coated microwell arrays for construction and recovery of multicellular spheroids. <i>Journal of Bioscience and Bioengineering</i> , 2013 , 115, 695-9	3.3	24
76	Optimization of Albumin Secretion and Metabolic Activity of Cytochrome P450 1A1 of Human Hepatoblastoma HepG2 Cells in Multicellular Spheroids by Controlling Spheroid Size. <i>Biological and Pharmaceutical Bulletin</i> , 2017 , 40, 334-338	2.3	24
75	Gene silencing of beta-catenin in melanoma cells retards their growth but promotes the formation of pulmonary metastasis in mice. <i>International Journal of Cancer</i> , 2008 , 123, 2315-20	7.5	24
74	Adiponectin Stimulates Exosome Release to Enhance Mesenchymal Stem-Cell-Driven Therapy of Heart Failure in Mice. <i>Molecular Therapy</i> , 2020 , 28, 2203-2219	11.7	24
73	Quantitative and temporal analysis of gene silencing in tumor cells induced by small interfering RNA or short hairpin RNA expressed from plasmid vectors. <i>Journal of Pharmaceutical Sciences</i> , 2009 , 98, 74-80	3.9	22
72	Suppression of tumor growth by intratumoral injection of short hairpin RNA-expressing plasmid DNA targeting beta-catenin or hypoxia-inducible factor 1alpha. <i>Journal of Controlled Release</i> , 2006 , 116, 90-5	11.7	22
71	Efficient amplification of self-gelling polypod-like structured DNA by rolling circle amplification and enzymatic digestion. <i>Scientific Reports</i> , 2015 , 5, 14979	4.9	19
70	Retardation of Antigen Release from DNA Hydrogel Using Cholesterol-Modified DNA for Increased Antigen-Specific Immune Response. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700355	10.1	18
69	Prolonged circulation half-life of interferon β activity by gene delivery of interferon β serum albumin fusion protein in mice. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 2350-7	3.9	18
68	Combined encapsulation of a tumor antigen and immune cells using a self-assembling immunostimulatory DNA hydrogel to enhance antigen-specific tumor immunity. <i>Journal of Controlled Release</i> , 2018 , 288, 189-198	11.7	18
67	Optimal Arrangement of Four Short DNA Strands for Delivery of Immunostimulatory Nucleic Acids to Immune Cells. <i>Nucleic Acid Therapeutics</i> , 2015 , 25, 245-53	4.8	17
66	Design of PCR-amplified DNA fragments for in vivo gene delivery: size-dependency on stability and transgene expression. <i>Journal of Pharmaceutical Sciences</i> , 2007 , 96, 2251-61	3.9	17
65	In Vivo Tracking of Extracellular Vesicles in Mice Using Fusion Protein Comprising Lactadherin and Gaussia Luciferase. <i>Methods in Molecular Biology</i> , 2017 , 1660, 245-254	1.4	16
64	Enhancement of antiproliferative activity of interferons by RNA interference-mediated silencing of SOCS gene expression in tumor cells. <i>Cancer Science</i> , 2008 , 99, 1650-5	6.9	16
63	Increased Insulin Secretion from Insulin-Secreting Cells by Construction of Mixed Multicellular Spheroids. <i>Pharmaceutical Research</i> , 2016 , 33, 247-56	4.5	15
62	Role of π -Elements in a Proton-Electron Coupling of π -Hybridized Electron Systems. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11686-11693	16.4	15
61	Reconstruction of Toll-like receptor 9-mediated responses in HEK-Blue hTLR9 cells by transfection of human macrophage scavenger receptor 1 gene. <i>Scientific Reports</i> , 2017 , 7, 13661	4.9	14

60	Development of DNA-anchored assembly of small extracellular vesicle for efficient antigen delivery to antigen presenting cells. <i>Biomaterials</i> , 2019 , 225, 119518	15.6	14
59	Increased immunostimulatory activity of polypod-like structured DNA by ligation of the terminal loop structures. <i>Journal of Controlled Release</i> , 2012 , 163, 285-92	11.7	14
58	Amelioration of Experimental Autoimmune Encephalomyelitis in Mice by Interferon-Beta Gene Therapy, Using a Long-Term Expression Plasmid Vector. <i>Molecular Pharmaceutics</i> , 2017 , 14, 1212-1217	5.6	12
57	Effects of Localization of Antigen Proteins in Antigen-Loaded Exosomes on Efficiency of Antigen Presentation. <i>Molecular Pharmaceutics</i> , 2019 , 16, 2309-2314	5.6	12
56	Development of RNA/DNA Hydrogel Targeting Toll-Like Receptor 7/8 for Sustained RNA Release and Potent Immune Activation. <i>Molecules</i> , 2020 , 25,	4.8	12
55	Constant and steady transgene expression of interferon- β by optimization of plasmid construct for safe and effective interferon- β gene therapy. <i>Journal of Gene Medicine</i> , 2012 , 14, 288-95	3.5	12
54	Expression profile-dependent improvement of insulin sensitivity by gene delivery of interleukin-6 in a mouse model of type II diabetes. <i>Molecular Pharmaceutics</i> , 2013 , 10, 3812-21	5.6	12
53	Antitumor immunity by small extracellular vesicles collected from activated dendritic cells through effective induction of cellular and humoral immune responses. <i>Biomaterials</i> , 2020 , 252, 120112	15.6	12
52	In Vitro and In Vivo Stimulation of Toll-Like Receptor 9 by CpG Oligodeoxynucleotides Incorporated Into Polypod-Like DNA Nanostructures. <i>Journal of Pharmaceutical Sciences</i> , 2017 , 106, 2457-2462	3.9	11
51	Control of polarization and tumoricidal activity of macrophages by multicellular spheroid formation. <i>Journal of Controlled Release</i> , 2018 , 270, 177-183	11.7	11
50	Using size-controlled multicellular spheroids of murine adenocarcinoma cells to efficiently establish pulmonary tumors in mice. <i>Biotechnology Journal</i> , 2017 , 12, 1600513	5.6	10
49	Development of orally-deliverable DNA hydrogel by microemulsification and chitosan coating. <i>International Journal of Pharmaceutics</i> , 2018 , 547, 556-562	6.5	10
48	Prevention of adverse events of interferon β gene therapy by gene delivery of interferon β heparin-binding domain fusion protein in mice. <i>Molecular Therapy - Methods and Clinical Development</i> , 2014 , 1, 14023	6.4	10
47	Controlling the kinetics of interferon transgene expression for improved gene therapy. <i>Journal of Drug Targeting</i> , 2012 , 20, 764-9	5.4	10
46	Enhancement of anticancer effect of interferon- β gene transfer against interferon- β resistant tumor by depletion of tumor-associated macrophages. <i>Molecular Pharmaceutics</i> , 2014 , 11, 1542-9	5.6	9
45	Positive correlation between the generation of reactive oxygen species and activation/reactivation of transgene expression after hydrodynamic injections into mice. <i>Pharmaceutical Research</i> , 2011 , 28, 702-11	4.5	9
44	Nasal delivery of Japanese cedar pollen Cryj1 by using self-gelling immunostimulatory DNA for effective induction of immune responses in mice. <i>Journal of Controlled Release</i> , 2015 , 200, 52-9	11.7	8
43	Moment analysis for kinetics of gene silencing by RNA interference. <i>Biotechnology and Bioengineering</i> , 2006 , 93, 816-9	4.9	8

42	Safe and effective interferon-beta gene therapy for the treatment of multiple sclerosis by regulating biological activity through the design of interferon-beta-galectin-9 fusion proteins. <i>International Journal of Pharmaceutics</i> , 2018 , 536, 310-317	6.5	8
41	Removal of transgene-expressing cells by a specific immune response induced by sustained transgene expression. <i>Journal of Gene Medicine</i> , 2014 , 16, 97-106	3.5	7
40	Saturation of transgene protein synthesis from mRNA in cells producing a large number of transgene mRNA. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 2380-9	4.9	7
39	Persistent interferon transgene expression by RNA interference-mediated silencing of interferon receptors. <i>Journal of Gene Medicine</i> , 2010 , 12, 739-46	3.5	7
38	Interferon-Inducible Mx Promoter-Driven, Long-Term Transgene Expression System of Interferon- β for Cancer Gene Therapy. <i>Human Gene Therapy</i> , 2016 , 27, 936-945	4.8	7
37	Elucidation of the Mechanism of Increased Activity of Immunostimulatory DNA by the Formation of Polypod-like Structure. <i>Pharmaceutical Research</i> , 2017 , 34, 2362-2370	4.5	6
36	Inhibition of surgical trauma-enhanced peritoneal dissemination of tumor cells by human catalase derivatives in mice. <i>Free Radical Biology and Medicine</i> , 2011 , 51, 773-9	7.8	6
35	Therapeutic Application of Small Extracellular Vesicles (sEVs): Pharmaceutical and Pharmacokinetic Challenges. <i>Biological and Pharmaceutical Bulletin</i> , 2020 , 43, 576-583	2.3	6
34	DNA density-dependent uptake of DNA origami-based two-or three-dimensional nanostructures by immune cells. <i>Nanoscale</i> , 2020 , 12, 14818-14824	7.7	5
33	Gene delivery of albumin binding peptide-interferon-gamma fusion protein with improved pharmacokinetic properties and sustained biological activity. <i>Journal of Pharmaceutical Sciences</i> , 2013 , 102, 3110-8	3.9	5
32	SELEX-Based Screening of Exosome-Tropic RNA. <i>Biological and Pharmaceutical Bulletin</i> , 2017 , 40, 2140-2145	2.5	5
31	Contribution of Epigenetic Modifications to the Decline in Transgene Expression from Plasmid DNA in Mouse Liver. <i>Pharmaceutics</i> , 2015 , 7, 199-212	6.4	5
30	Atomic force microscopy analysis of orientation and bending of oligodeoxynucleotides in polypod-like structured DNA. <i>Nano Research</i> , 2015 , 8, 3764-3771	10	5
29	Long-term elimination of hepatitis C virus from human hepatocyte chimeric mice after interferon- β gene transfer. <i>Human Gene Therapy Clinical Development</i> , 2014 , 25, 28-39	3.2	5
28	Evaluation of antiviral effect of type I, II, and III interferons on direct-acting antiviral-resistant hepatitis C virus. <i>Antiviral Research</i> , 2017 , 146, 130-138	10.8	5
27	Enhanced Activity of Immunosuppressive Oligodeoxynucleotides by Incorporating Them into Hexapod-Like Nanostructured DNA. <i>Biological and Pharmaceutical Bulletin</i> , 2018 , 41, 564-569	2.3	4
26	Application of Magnesium Pyrophosphate-Based Sponge-Like Microparticles to Enhance the Delivery Efficiency and Adjuvant Effects of Polyriboinosinic-Polyribocytidylic Acid in Immune Cells. <i>Journal of Pharmaceutical Sciences</i> , 2016 , 105, 766-772	3.9	4
25	Development of a Nanostructured RNA/DNA Assembly as an Adjuvant Targeting Toll-Like Receptor 7/8. <i>Nucleic Acid Therapeutics</i> , 2019 , 29, 335-342	4.8	4

24	Phosphatidylserine-deficient small extracellular vesicle is a major somatic cell-derived sEV subpopulation in blood. <i>iScience</i> , 2021 , 24, 102839	6.1	4
23	Construction of nanostructured DNA harbouring phosphorodiamidate morpholino oligonucleotide for controlled tissue distribution in mice. <i>Journal of Drug Targeting</i> , 2018 , 26, 373-381	5.4	3
22	pH Responsiveness of Near-infrared Fluorescent Cyanine Dyes Encapsulated in Self-assemblies Composed of Various Amphiphiles. <i>Chemistry Letters</i> , 2018 , 47, 1147-1150	1.7	3
21	Fibronectin inhibits cytokine production induced by CpG DNA in macrophages without direct binding to DNA. <i>Cytokine</i> , 2012 , 60, 162-70	4	3
20	Intercellular delivery of NF- κ B inhibitor peptide utilizing small extracellular vesicles for the application of anti-inflammatory therapy. <i>Journal of Controlled Release</i> , 2020 , 328, 435-443	11.7	3
19	Regulation of the Distribution of Cells in Mixed Spheroids by Altering Migration Direction. <i>Tissue Engineering - Part A</i> , 2019 , 25, 390-398	3.9	3
18	Incorporation of Gelatin Microspheres into HepG2 Human Hepatocyte Spheroids for Functional Improvement through Improved Oxygen Supply to Spheroid Core. <i>Biological and Pharmaceutical Bulletin</i> , 2020 , 43, 1220-1225	2.3	2
17	Development of CD40L-modified tumor small extracellular vesicles for effective induction of antitumor immune response. <i>Nanomedicine</i> , 2020 , 15, 1641-1652	5.6	2
16	Folding of single-stranded circular DNA into rigid rectangular DNA accelerates its cellular uptake. <i>Nanoscale</i> , 2019 , 11, 23416-23422	7.7	2
15	Determining The Role of Surface Glycans in The Pharmacokinetics of Small Extracellular Vesicles. <i>Journal of Pharmaceutical Sciences</i> , 2021 , 110, 3261-3267	3.9	2
14	Targeted Delivery of Interferon Gamma Using a Recombinant Fusion Protein of a Fibrin Clot-Binding Peptide With Interferon Gamma for Cancer Gene Therapy. <i>Journal of Pharmaceutical Sciences</i> , 2017 , 106, 892-897	3.9	1
13	Development of multicellular spheroid for cell-based therapy. <i>Drug Delivery System</i> , 2013 , 28, 45-53	0	1
12	Comparison of antigen expression from plasmid DNA in tumor-free and antigen-expressing tumor-bearing mice. <i>Human Vaccines and Immunotherapeutics</i> , 2012 , 8, 194-200	4.4	1
11	Interleukin-4-carrying small extracellular vesicles with a high potential as anti-inflammatory therapeutics based on modulation of macrophage function. <i>Biomaterials</i> , 2021 , 278, 121160	15.6	1
10	Analysis of Tertiary Structural Features of Branched DNA Nanostructures with Partially Common Sequences Using Small-Angle X-ray Scattering.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 308-314	4.1	1
9	Critical contribution of macrophage scavenger receptor 1 to the uptake of nanostructured DNA by immune cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021 , 34, 102386	6	1
8	Combined use of chemically modified nucleobases and nanostructured DNA for enhanced immunostimulatory activity of CpG oligodeoxynucleotide. <i>Bioorganic and Medicinal Chemistry</i> , 2021 , 29, 115864	3.4	1
7	Calcium Peroxide-Containing Polydimethylsiloxane-Based Microwells for Inhibiting Cell Death in Spheroids through Improved Oxygen Supply. <i>Biological and Pharmaceutical Bulletin</i> , 2021 , 44, 1458-1464 ^{2,3}		1

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5 Characteristics of Exosomes and Development of Exosome-based Diagnosis and Therapy. *Oleoscience*, **2014**, 14, 291-298

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4 In vivo fate of exogenously-administered exosomes. *Drug Delivery System*, **2014**, 29, 116-124

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3 Delivery of vectors expressing short hairpin RNA for cancer therapy. *Drug Delivery System*, **2007**, 22, 123-130

2 Development of immunotherapy using extracellular vesicles. *Drug Delivery System*, **2021**, 36, 100-107

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1 Development of exosome-based DDS targeting gastrointestinal cancer. *Drug Delivery System*, **2018**, 33, 372-376

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