

# Shigeru Kawakami

## List of Publications by Year in descending order

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73  
papers

2,246  
citations

218677

26  
h-index

233421

45  
g-index

74  
all docs

74  
docs citations

74  
times ranked

2421  
citing authors

#	ARTICLE	IF	CITATIONS
1	In vivo gene delivery to the liver using novel galactosylated cationic liposomes. <i>Pharmaceutical Research</i> , 2000, 17, 306-313.	3.5	155
2	Nonviral approaches for targeted delivery of plasmid DNA and oligonucleotide. <i>Journal of Pharmaceutical Sciences</i> , 2008, 97, 726-745.	3.3	124
3	Strategies for In Vivo Delivery of siRNAs. <i>BioDrugs</i> , 2010, 24, 195-205.	4.6	105
4	The role of dioleoylphosphatidylethanolamine (DOPE) in targeted gene delivery with mannosylated cationic liposomes via intravenous route. <i>Journal of Controlled Release</i> , 2005, 108, 484-495.	9.9	90
5	Lipid Carrier Systems for Targeted Drug and Gene Delivery. <i>Chemical and Pharmaceutical Bulletin</i> , 2005, 53, 871-880.	1.3	86
6	Development of an ultrasound-responsive and mannose-modified gene carrier for DNA vaccine therapy. <i>Biomaterials</i> , 2010, 31, 7813-7826.	11.4	85
7	piggyBac Transposon-mediated Long-term Gene Expression in Mice. <i>Molecular Therapy</i> , 2010, 18, 707-714.	8.2	84
8	Effect of mannose density on mannose receptor-mediated cellular uptake of mannosylated O/W emulsions by macrophages. <i>Journal of Controlled Release</i> , 2006, 114, 193-201.	9.9	77
9	The development of a gene vector electrostatically assembled with a polysaccharide capsule. <i>Biomaterials</i> , 2009, 30, 4427-4434.	11.4	69
10	Suppression of Melanoma Growth and Metastasis by DNA Vaccination Using an Ultrasound-Responsive and Mannose-Modified Gene Carrier. <i>Molecular Pharmaceutics</i> , 2011, 8, 543-554.	4.6	68
11	Mannosylated semiconductor quantum dots for the labeling of macrophages. <i>Journal of Controlled Release</i> , 2008, 125, 131-136.	9.9	62
12	Glycosylation-mediated targeting of carriers. <i>Journal of Controlled Release</i> , 2014, 190, 542-555.	9.9	62
13	Enhanced Transfection Efficiency into Macrophages and Dendritic Cells by a Combination Method Using Mannosylated Lipoplexes and Bubble Liposomes with Ultrasound Exposure. <i>Human Gene Therapy</i> , 2010, 21, 65-74.	2.7	59
14	Targeted co-delivery of protein and drug to a tumor in vivo by sophisticated RGD-modified lipid-calcium carbonate nanoparticles. <i>Journal of Controlled Release</i> , 2019, 302, 42-53.	9.9	57
15	Tumor growth suppression by the combination of nanobubbles and ultrasound. <i>Cancer Science</i> , 2016, 107, 217-223.	3.9	48
16	Optimization of tumor-selective targeting by basic fibroblast growth factor-binding peptide grafted PEGylated liposomes. <i>Journal of Controlled Release</i> , 2007, 119, 262-270.	9.9	43
17	Efficient suppression of murine intracellular adhesion molecule-1 using ultrasound-responsive and mannose-modified lipoplexes inhibits acute hepatic inflammation. <i>Hepatology</i> , 2012, 56, 259-269.	7.3	41
18	Focused ultrasound/microbubbles-assisted BBB opening enhances LNP-mediated mRNA delivery to brain. <i>Journal of Controlled Release</i> , 2022, 348, 34-41.	9.9	40

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19	Renal press-mediated transfection method for plasmid DNA and siRNA to the kidney. <i>Biochemical and Biophysical Research Communications</i> , 2008, 372, 383-387.	2.1	38
20	Evaluation of the potential of doxorubicin loaded microbubbles as a theranostic modality using a murine tumor model. <i>Acta Biomaterialia</i> , 2015, 19, 112-118.	8.3	36
21	Recent advances in lipid nanoparticles for delivery of nucleic acid, mRNA, and gene editing-based therapeutics. <i>Drug Metabolism and Pharmacokinetics</i> , 2022, 44, 100450.	2.2	33
22	Ligand peptide-grafted PEGylated liposomes using HER2 targeted peptide-lipid derivatives for targeted delivery in breast cancer cells: The effect of serine-glycine repeated peptides as a spacer. <i>International Journal of Pharmaceutics</i> , 2017, 521, 361-364.	5.2	31
23	Three-Dimensional Imaging of the Intracellular Fate of Plasmid DNA and Transgene Expression: ZsGreen1 and Tissue Clearing Method CUBIC Are an Optimal Combination for Multicolor Deep Imaging in Murine Tissues. <i>PLoS ONE</i> , 2016, 11, e0148233.	2.5	31
24	Evaluation of proinflammatory cytokine production and liver injury induced by plasmid DNA/cationic liposome complexes with various mixing ratios in mice. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 71, 303-309.	4.3	30
25	The elucidation of gene transferring mechanism by ultrasound-responsive unmodified and mannose-modified lipoplexes. <i>Biomaterials</i> , 2011, 32, 4659-4669.	11.4	30
26	Liver- and lobe-selective gene transfection following the instillation of plasmid DNA to the liver surface in mice. <i>Biochemical and Biophysical Research Communications</i> , 2002, 294, 46-50.	2.1	29
27	Peptide-Based Cancer-Targeted DDS and Molecular Imaging. <i>Chemical and Pharmaceutical Bulletin</i> , 2017, 65, 618-624.	1.3	28
28	Efficient gene transfection to the brain with ultrasound irradiation in mice using stabilized bubble lipopolyplexes prepared by the surface charge regulation method. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 2309-2320.	6.7	27
29	Tissue and intrahepatic distribution and subcellular localization of a mannosylated lipoplex after intravenous administration in mice. <i>Journal of Controlled Release</i> , 2004, 98, 157-167.	9.9	26
30	Key Physiological Phenomena Governing Transgene Expression Based on Tissue Pressure-Mediated Transfection in Mice. <i>Biological and Pharmaceutical Bulletin</i> , 2010, 33, 1627-1632.	1.4	26
31	In vivo Site-Specific Transfection of Naked Plasmid DNA and siRNAs in Mice by Using a Tissue Suction Device. <i>PLoS ONE</i> , 2012, 7, e41319.	2.5	26
32	Development of anionic bubble lipopolyplexes for efficient and safe gene transfection with ultrasound exposure in mice. <i>Journal of Controlled Release</i> , 2014, 176, 24-34.	9.9	25
33	The development of mechanically formed stable nanobubbles intended for sonoporation-mediated gene transfection. <i>Drug Delivery</i> , 2017, 24, 320-327.	5.7	25
34	Synthesis and Functional Characterization of Novel Sialyl LewisX Mimic-Decorated Liposomes for E-selectin-Mediated Targeting to Inflamed Endothelial Cells. <i>Molecular Pharmaceutics</i> , 2017, 14, 1528-1537.	4.6	23
35	Development of High-Functionality and -Quality Lipids with RGD Peptide Ligands: Application for PEGylated Liposomes and Analysis of Intratumoral Distribution in a Murine Colon Cancer Model. <i>Molecular Pharmaceutics</i> , 2018, 15, 4481-4490.	4.6	22
36	Development of fluororous lipid-based nanobubbles for efficiently containing perfluoropropane. <i>International Journal of Pharmaceutics</i> , 2015, 487, 64-71.	5.2	21

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37	Pressure-Mediated Transfection of Murine Spleen and Liver. <i>Human Gene Therapy</i> , 2009, 20, 1157-1167.	2.7	20
38	Synthesis of high functionality and quality mannose-grafted lipids to produce macrophage-targeted liposomes. <i>European Journal of Pharmaceutical Sciences</i> , 2018, 123, 153-161.	4.0	20
39	Tumour-associated macrophages targeted transfection with NF- $\kappa$ B decoy/mannose-modified bubble lipoplexes inhibits tumour growth in tumour-bearing mice. <i>Journal of Drug Targeting</i> , 2014, 22, 439-449.	4.4	18
40	Recent Strategies for Targeted Brain Drug Delivery. <i>Chemical and Pharmaceutical Bulletin</i> , 2020, 68, 567-582.	1.3	18
41	Combination of Nanoparticles with Physical Stimuli toward Cancer Therapy. <i>Biological and Pharmaceutical Bulletin</i> , 2014, 37, 212-216.	1.4	17
42	Effective intraperitoneal gene transfection system using nanobubbles and ultrasound irradiation. <i>Drug Delivery</i> , 2017, 24, 737-744.	5.7	17
43	Kidney- and Site-Selective Delivery of 5-Fluorouracil Utilizing the Absorption on the Kidney Surface in Rats.. <i>Biological and Pharmaceutical Bulletin</i> , 2002, 25, 928-930.	1.4	16
44	Kidney-selective gene transfection using anionic bubble lipopolyplexes with renal ultrasound irradiation in mice. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2014, 10, 1829-1838.	3.3	16
45	Development of a DNA Vaccine for Melanoma Metastasis by Inhalation Based on an Analysis of Transgene Expression Characteristics of Naked pDNA and a Ternary Complex in Mouse Lung Tissues. <i>Pharmaceutics</i> , 2020, 12, 540.	4.5	16
46	Evaluation of Osteoclastogenesis via NF $\kappa$ B Decoy/mannosylated Cationic Liposome-Mediated Inhibition of Pro-inflammatory Cytokine Production from Primary Cultured Macrophages. <i>Pharmaceutical Research</i> , 2011, 28, 742-751.	3.5	15
47	Characterization of transgene expression and pDNA distribution of the suctioned kidney in mice. <i>Drug Delivery</i> , 2017, 24, 906-917.	5.7	15
48	Ultrasound-responsive nanobubble-mediated gene transfection in the cerebroventricular region by intracerebroventricular administration in mice. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2019, 137, 1-8.	4.3	14
49	Synthesis and evaluation of a novel adapter lipid derivative for preparation of cyclic peptide-modified PEGylated liposomes: Application of cyclic RGD peptide. <i>European Journal of Pharmaceutical Sciences</i> , 2022, 176, 106239.	4.0	14
50	Synthesis of a high functionality and quality lipid with gp130 binding hydrophobic peptide for the preparation of human glioma cell-targeted PEGylated liposomes. <i>Journal of Drug Delivery Science and Technology</i> , 2019, 49, 668-673.	3.0	13
51	Application of Direct Sonoporation from a Defined Surface Area of the Peritoneum: Evaluation of Transfection Characteristics in Mice. <i>Pharmaceutics</i> , 2019, 11, 244.	4.5	13
52	Efficient Messenger RNA Delivery to the Kidney Using Renal Pelvis Injection in Mice. <i>Pharmaceutics</i> , 2021, 13, 1810.	4.5	12
53	Implantable pneumatically actuated microsystem for renal pressure-mediated transfection in mice. <i>Journal of Controlled Release</i> , 2012, 159, 85-91.	9.9	10
54	Synthesis of a Novel Pyrazine- $\pi$ -Pyridone Biheteroaryl-Based Fluorescence Sensor and Detection of Endogenous Labile Zinc Ions in Lung Cancer Cells. <i>Sensors</i> , 2019, 19, 2049.	3.8	10

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55	A pH-Adjustable Tissue Clearing Solution That Preserves Lipid Ultrastructures: Suitable Tissue Clearing Method for DDS Evaluation. <i>Pharmaceutics</i> , 2020, 12, 1070.	4.5	10
56	Evaluation of the targeted delivery of 5-fluorouracil and ascorbic acid into the brain with ultrasound-responsive nanobubbles. <i>Journal of Drug Targeting</i> , 2018, 26, 684-691.	4.4	9
57	Suppression of Peritoneal Fibrosis by Sonoporation of Hepatocyte Growth Factor Gene-Encoding Plasmid DNA in Mice. <i>Pharmaceutics</i> , 2021, 13, 115.	4.5	9
58	Evaluation of Long-Term Gene Expression in Mouse Liver Using PhiC31 Integrase and Hydrodynamic Injection. <i>Biological and Pharmaceutical Bulletin</i> , 2012, 35, 1182-1186.	1.4	8
59	Evaluation of the neurochemical effects of methoxetamine using brain microdialysis in mice. <i>Forensic Toxicology</i> , 2015, 33, 374-379.	2.4	8
60	Evaluation of miR-122 to Predict High Dose Acetaminophen-Induced Liver Injury in Mice: The Combination Uses of 5-Fluorouracil. <i>Biological and Pharmaceutical Bulletin</i> , 2018, 41, 1732-1735.	1.4	8
61	Brain Microdialysis Study of Vancomycin in the Cerebrospinal Fluid After Intracerebroventricular Administration in Mice. <i>AAPS PharmSciTech</i> , 2019, 20, 5.	3.3	7
62	Effects of Tissue Pressure on Transgene Expression Characteristics via Renal Local Administration Routes from Ureter or Renal Artery in the Rat Kidney. <i>Pharmaceutics</i> , 2020, 12, 114.	4.5	7
63	Liver Suction-Mediated Transfection in Mice Using a Pressure-Controlled Computer System. <i>Biological and Pharmaceutical Bulletin</i> , 2014, 37, 569-575.	1.4	6
64	Optimization of renal transfection using a renal suction-mediated transfection method in mice. <i>Journal of Drug Targeting</i> , 2016, 24, 450-456.	4.4	6
65	Determining Transgene Expression Characteristics Using a Suction Device with Multiple Hole Adjusting a Left Lateral Lobe of the Mouse Liver. <i>Biological and Pharmaceutical Bulletin</i> , 2018, 41, 944-950.	1.4	6
66	Long-term <i>in vivo</i> gene expression in mouse kidney using $\Phi$ C31 integrase and electroporation. <i>Journal of Drug Targeting</i> , 2015, 23, 427-435.	4.4	5
67	Synthesis and Evaluation of High Functionality and Quality Cell-penetrating Peptide Conjugated Lipid for Octaarginine Modified PEGylated Liposomes In U251 and U87 Glioma Cells. <i>Journal of Pharmaceutical Sciences</i> , 2022, 111, 1719-1727.	3.3	4
68	Evaluation of inflammatory responses due to small interfering RNA transfer using unmodified- and mannose-modified bubble lipoplexes with ultrasound exposure in primary cultured macrophages. <i>Journal of Drug Targeting</i> , 2014, 22, 732-738.	4.4	3
69	Investigation of Intracellular Delivery of NuBCP-9 by Conjugation with Oligoarginines Peptides in MDA-MB-231 Cells. <i>Biological and Pharmaceutical Bulletin</i> , 2018, 41, 1448-1455.	1.4	3
70	Tissue suction-mediated gene transfer to the beating heart in mice. <i>PLoS ONE</i> , 2020, 15, e0228203.	2.5	3
71	Evaluation of transgene expression characteristics and DNA vaccination against melanoma metastasis of an intravenously injected ternary complex with biodegradable dendrigraft poly-L-lysine in mice. <i>Drug Delivery</i> , 2021, 28, 542-549.	5.7	3
72	Gene delivery system of pDNA using the blood glycoprotein fetuin. <i>Journal of Drug Targeting</i> , 2018, 26, 604-609.	4.4	2

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73	Ligand Design for Specific MHC Class I Molecules on the Cell Surface. <i>Biochemistry</i> , 2020, 59, 4646-4653.	2.5	1