

# Shinae Kizaka-Kondoh

## 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.

95 papers	4,031 citations	36 h-index	62 g-index
97 ext. papers	4,418 ext. citations	5.9 avg, IF	5.04 L-index

#	Paper	IF	Citations
95	Tumor hypoxia: a target for selective cancer therapy. <i>Cancer Science</i> , <b>2003</b> , 94, 1021-8	6.9	290
94	Hypoxia and hypoxia-inducible factor-1 expression enhance osteolytic bone metastases of breast cancer. <i>Cancer Research</i> , <b>2007</b> , 67, 4157-63	10.1	193
93	Single-cell bioluminescence imaging of deep tissue in freely moving animals. <i>Science</i> , <b>2018</b> , 359, 935-939	33.3	181
92	Significance of nitroimidazole compounds and hypoxia-inducible factor-1 for imaging tumor hypoxia. <i>Cancer Science</i> , <b>2009</b> , 100, 1366-73	6.9	165
91	Nitric oxide induces hypoxia-inducible factor 1 activation that is dependent on MAPK and phosphatidylinositol 3-kinase signaling. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 2550-8	5.4	160
90	A luciferin analogue generating near-infrared bioluminescence achieves highly sensitive deep-tissue imaging. <i>Nature Communications</i> , <b>2016</b> , 7, 11856	17.4	137
89	2-Nitroimidazole-tricarbocyanine conjugate as a near-infrared fluorescent probe for in vivo imaging of tumor hypoxia. <i>Bioconjugate Chemistry</i> , <b>2012</b> , 23, 324-9	6.3	133
88	The Akt/mTOR pathway assures the synthesis of HIF-1 $\alpha$ protein in a glucose- and reoxygenation-dependent manner in irradiated tumors. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 5332-42	5.4	130
87	Inactivation of chemokine (C-C motif) receptor 1 (CCR1) suppresses colon cancer liver metastasis by blocking accumulation of immature myeloid cells in a mouse model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 13063-8	11.5	124
86	Inhibition of apoptosis in normal and transformed intestinal epithelial cells by cAMP through induction of inhibitor of apoptosis protein (IAP)-2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 8921-6	11.5	115
85	Antitumor effect of TAT-oxygen-dependent degradation-caspase-3 fusion protein specifically stabilized and activated in hypoxic tumor cells. <i>Cancer Research</i> , <b>2002</b> , 62, 2013-8	10.1	112
84	Near-infrared fluorescence tumor imaging using nanocarrier composed of poly(L-lactic acid)-block-poly(sarcosine) amphiphilic polydepsipeptide. <i>Biomaterials</i> , <b>2009</b> , 30, 5156-60	15.6	110
83	Significance of HIF-1-active cells in angiogenesis and radioresistance. <i>Oncogene</i> , <b>2007</b> , 26, 7508-16	9.2	108
82	Near-infrared fluorescent labeled peptosome for application to cancer imaging. <i>Bioconjugate Chemistry</i> , <b>2008</b> , 19, 109-17	6.3	102
81	Cyclic AMP promotes cAMP-responsive element-binding protein-dependent induction of cellular inhibitor of apoptosis protein-2 and suppresses apoptosis of colon cancer cells through ERK1/2 and p38 MAPK. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 26176-83	5.4	85
80	High resolution imaging of intracellular oxygen concentration by phosphorescence lifetime. <i>Scientific Reports</i> , <b>2015</b> , 5, 10657	4.9	84
79	Intracellular CO release from composite of ferritin and ruthenium carbonyl complexes. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 16902-8	16.4	82

78	Identification of a novel thioredoxin-related transmembrane protein. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 10032-8	5.4	80
77	Optical Imaging of Tumor Hypoxia and Evaluation of Efficacy of a Hypoxia-Targeting Drug in Living Animals. <i>Molecular Imaging</i> , <b>2005</b> , 4, 153535002005051	3.7	74
76	Selective killing of hypoxia-inducible factor-1-active cells improves survival in a mouse model of invasive and metastatic pancreatic cancer. <i>Clinical Cancer Research</i> , <b>2009</b> , 15, 3433-41	12.9	72
75	Cytokine-mediated induction of anti-apoptotic genes that are linked to nuclear factor kappa-B (NF-kappaB) signalling in human islets and in a mouse beta cell line. <i>Diabetologia</i> , <b>2009</b> , 52, 1092-101	10.3	71
74	Preparation of a cross-linked porous protein crystal containing Ru carbonyl complexes as a CO-releasing extracellular scaffold. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 215-20	5.1	63
73	The combination of hypoxia-response enhancers and an oxygen-dependent proteolytic motif enables real-time imaging of absolute HIF-1 activity in tumor xenografts. <i>Biochemical and Biophysical Research Communications</i> , <b>2007</b> , 360, 791-6	3.4	57
72	Thioredoxin-binding protein-2-like inducible membrane protein is a novel vitamin D3 and peroxisome proliferator-activated receptor (PPAR)gamma ligand target protein that regulates PPARgamma signaling. <i>Endocrinology</i> , <b>2006</b> , 147, 733-43	4.8	55
71	The HIF-1-active microenvironment: an environmental target for cancer therapy. <i>Advanced Drug Delivery Reviews</i> , <b>2009</b> , 61, 623-32	18.5	52
70	Early protective effect of bone marrow mononuclear cells against ischemic white matter damage through augmentation of cerebral blood flow. <i>Stroke</i> , <b>2010</b> , 41, 2938-43	6.7	51
69	Biomedical applications of imidazolium cation-modified iron oxide nanoparticles. <i>Polymers for Advanced Technologies</i> , <b>2008</b> , 19, 1421-1429	3.2	48
68	A reliable murine model of bone metastasis by injecting cancer cells through caudal arteries. <i>Nature Communications</i> , <b>2018</b> , 9, 2981	17.4	46
67	Antitumor protein therapy; application of the protein transduction domain to the development of a protein drug for cancer treatment. <i>Breast Cancer</i> , <b>2006</b> , 13, 16-26	3.4	45
66	Induction of hypoxia-inducible factor 1 activity by muscarinic acetylcholine receptor signaling. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 41521-8	5.4	45
65	Optical imaging of tumor hypoxia and evaluation of efficacy of a hypoxia-targeting drug in living animals. <i>Molecular Imaging</i> , <b>2005</b> , 4, 182-93	3.7	45
64	TS-1 enhances the effect of radiotherapy by suppressing radiation-induced hypoxia-inducible factor-1 activation and inducing endothelial cell apoptosis. <i>Cancer Science</i> , <b>2008</b> , 99, 2327-35	6.9	44
63	Hypoxia inducible factor-1 influences sensitivity to paclitaxel of human lung cancer cell lines under normoxic conditions. <i>Cancer Science</i> , <b>2007</b> , 98, 1394-401	6.9	42
62	MT1-MMP plays a critical role in hematopoiesis by regulating HIF-mediated chemokine/cytokine gene transcription within niche cells. <i>Blood</i> , <b>2012</b> , 119, 5405-16	2.2	37
61	Identification of a series of transforming growth factor beta-responsive genes by retrovirus-mediated gene trap screening. <i>Molecular and Cellular Biology</i> , <b>2000</b> , 20, 3266-73	4.8	37

60	Cell penetrating peptides improve tumor delivery of cargos through neuropilin-1-dependent extravasation. <i>Journal of Controlled Release</i> , <b>2015</b> , 201, 14-21	11.7	36
59	TMX, a human transmembrane oxidoreductase of the thioredoxin family: the possible role in disulfide-linked protein folding in the endoplasmic reticulum. <i>Archives of Biochemistry and Biophysics</i> , <b>2004</b> , 423, 81-7	4.1	35
58	Persisting mild hypothermia suppresses hypoxia-inducible factor-1alpha protein synthesis and hypoxia-inducible factor-1-mediated gene expression. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2010</b> , 298, R661-71	3.2	34
57	Radiosynthesis and initial evaluation of (18)F labeled nanocarrier composed of poly(L-lactic acid)-block-poly(sarcosine) amphiphilic polydepsipeptide. <i>Nuclear Medicine and Biology</i> , <b>2013</b> , 40, 387-94 <sup>2.1</sup>		33
56	In vivo imaging of HIF-active tumors by an oxygen-dependent degradation protein probe with an interchangeable labeling system. <i>PLoS ONE</i> , <b>2010</b> , 5, e15736	3.7	33
55	Enhanced percolation and gene expression in tumor hypoxia by PEGylated polyplex micelles. <i>Molecular Therapy</i> , <b>2009</b> , 17, 1404-10	11.7	28
54	Physical and functional interaction of transmembrane thioredoxin-related protein with major histocompatibility complex class I heavy chain: redox-based protein quality control and its potential relevance to immune responses. <i>Molecular Biology of the Cell</i> , <b>2009</b> , 20, 4552-62	3.5	28
53	Mechanism of hypoxia-specific cytotoxicity of procaspase-3 fused with a VHL-mediated protein destruction motif of HIF-1alpha containing Pro564. <i>FEBS Letters</i> , <b>2006</b> , 580, 5718-22	3.8	28
52	c-IAP2 is induced by ionizing radiation through NF-kappaB binding sites. <i>FEBS Letters</i> , <b>2001</b> , 491, 40-4	3.8	28
51	Functional molecular imaging of ILK-mediated Akt/PKB signaling cascades and the associated role of beta-parvin. <i>Journal of Cell Science</i> , <b>2010</b> , 123, 747-55	5.3	27
50	Imaging of HIF-1-active tumor hypoxia using a protein effectively delivered to and specifically stabilized in HIF-1-active tumor cells. <i>Journal of Nuclear Medicine</i> , <b>2009</b> , 50, 942-9	8.9	27
49	Suppression of VEGF transcription in renal cell carcinoma cells by pyrrole-imidazole hairpin polyamides targeting the hypoxia responsive element. <i>Acta Oncologica</i> , <b>2006</b> , 45, 317-24	3.2	27
48	Raf-1 is not a major upstream regulator of MAP kinases in rat fibroblasts. <i>FEBS Letters</i> , <b>1993</b> , 336, 255-8	3.8	27
47	A hypoxia-inducible factor (HIF)-3β splicing variant, HIF-3β impairs angiogenesis in hypervascular malignant meningiomas with epigenetically silenced HIF-3β. <i>Biochemical and Biophysical Research Communications</i> , <b>2013</b> , 433, 139-44	3.4	26
46	Synthesis and biological activity of furanylindazoles as inhibitors of hypoxia inducible factor (HIF)-1 transcriptional activity. <i>MedChemComm</i> , <b>2012</b> , 3, 1455	5	19
45	Development of a hypoxia-selective near-infrared fluorescent probe for non-invasive tumor imaging. <i>Chemical and Pharmaceutical Bulletin</i> , <b>2012</b> , 60, 402-7	1.9	18
44	PET imaging of hypoxia-inducible factor-1-active tumor cells with pretargeted oxygen-dependent degradable streptavidin and a novel 18F-labeled biotin derivative. <i>Molecular Imaging and Biology</i> , <b>2011</b> , 13, 1003-10	3.8	18
43	A novel injectable BRET-based in vivo imaging probe for detecting the activity of hypoxia-inducible factor regulated by the ubiquitin-proteasome system. <i>Scientific Reports</i> , <b>2016</b> , 6, 34311	4.9	17

42	Synthesis and Luminescence Properties of Near-Infrared N-Heterocyclic Luciferin Analogues for In Vivo Optical Imaging. <i>Bulletin of the Chemical Society of Japan</i> , <b>2019</b> , 92, 608-618	5.1	17
41	Noninvasive tracking of donor cell homing by near-infrared fluorescence imaging shortly after bone marrow transplantation. <i>PLoS ONE</i> , <b>2010</b> , 5, e11114	3.7	15
40	n-Propyl gallate activates hypoxia-inducible factor 1 by modulating intracellular oxygen-sensing systems. <i>Biochemical Journal</i> , <b>2008</b> , 411, 97-105	3.8	15
39	Hypoxia-inducible factor-targeting prodrug TOP3 combined with gemcitabine or TS-1 improves pancreatic cancer survival in an orthotopic model. <i>Cancer Science</i> , <b>2016</b> , 107, 1151-8	6.9	14
38	The effect of triamcinolone acetonide on laser-induced choroidal neovascularization in mice using a hypoxia visualization bio-imaging probe. <i>Scientific Reports</i> , <b>2015</b> , 5, 9898	4.9	14
37	A metal carbonyl-protein needle composite designed for intracellular CO delivery to modulate NF- $\kappa$ B activity. <i>Molecular BioSystems</i> , <b>2015</b> , 11, 3111-8		11
36	Design Strategy to Create Antibody Mimetics Harboring Immobilised Complementarity Determining Region Peptides for Practical Use. <i>Scientific Reports</i> , <b>2020</b> , 10, 891	4.9	11
35	Rapid detection of hypoxia-inducible factor-1-active tumours: pretargeted imaging with a protein degrading in a mechanism similar to hypoxia-inducible factor-1 $\alpha$ . <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2010</b> , 37, 1566-74	8.8	11
34	The protective role of the transmembrane thioredoxin-related protein TMX in inflammatory liver injury. <i>Antioxidants and Redox Signaling</i> , <b>2013</b> , 18, 1263-72	8.4	10
33	Pathophysiological response to hypoxia - from the molecular mechanisms of malady to drug discovery: hypoxia-inducible factor-1 (HIF-1)-active cells as a target for cancer therapy. <i>Journal of Pharmacological Sciences</i> , <b>2011</b> , 115, 440-5	3.7	10
32	Development of an oxygen-sensitive degradable peptide probe for the imaging of hypoxia-inducible factor-1-active regions in tumors. <i>Molecular Imaging and Biology</i> , <b>2013</b> , 15, 713-21	3.8	9
31	Bone resorption facilitates osteoblastic bone metastatic colonization by cooperation of insulin-like growth factor and hypoxia. <i>Cancer Science</i> , <b>2014</b> , 105, 553-9	6.9	9
30	Constitutive association of EGF receptor with the CrkII-23 mutant that inhibits transformation of NRK cells by EGF and TGF- $\beta$ . <i>Cellular Signalling</i> , <b>1998</b> , 10, 283-90	4.9	9
29	Design, synthesis, and evaluation of indeno[2,1-c]pyrazolones for use as inhibitors against hypoxia-inducible factor (HIF)-1 transcriptional activity. <i>Bioorganic and Medicinal Chemistry</i> , <b>2020</b> , 28, 115207	3.4	9
28	Investigation of the Influence of Glucose Concentration on Cancer Cells by Using a Microfluidic Gradient Generator without the Induction of Large Shear Stress. <i>Micromachines</i> , <b>2016</b> , 7,	3.3	9
27	A fluorescent protein scaffold for presenting structurally constrained peptides provides an effective screening system to identify high affinity target-binding peptides. <i>PLoS ONE</i> , <b>2014</b> , 9, e103397	3.7	8
26	Evaluation of [ $^{125}$ I]IPOS as a molecular imaging probe for hypoxia-inducible factor-1-active regions in a tumor: comparison among single-photon emission computed tomography/X-ray computed tomography imaging, autoradiography, and immunohistochemistry. <i>Cancer Science</i> , <b>2011</b> , 102, 2090-6	6.9	8
25	Novel lymphoid enhancer-binding factor 1-cytoglobin axis promotes extravasation of osteosarcoma cells into the lungs. <i>Cancer Science</i> , <b>2018</b> , 109, 2746-2756	6.9	7

24	Domain architecture of vasohibins required for their chaperone-dependent unconventional extracellular release. <i>Protein Science</i> , <b>2017</b> , 26, 452-463	6.3	7
23	Imaging and Targeting of the Hypoxia-inducible Factor 1-active Microenvironment. <i>Journal of Toxicologic Pathology</i> , <b>2009</b> , 22, 93-100	1.4	7
22	Strategic design to create HER2-targeting proteins with target-binding peptides immobilized on a fibronectin type III domain scaffold.. <i>RSC Advances</i> , <b>2020</b> , 10, 15154-15162	3.7	6
21	In vivo visualization of heterogeneous intratumoral distribution of hypoxia-inducible factor-1 activity by the fusion of high-resolution SPECT and morphological imaging tests. <i>Journal of Biomedicine and Biotechnology</i> , <b>2012</b> , 2012, 262741		6
20	Detection of the onset of ischemia and carcinogenesis by hypoxia-inducible transcription factor-based in vivo bioluminescence imaging. <i>PLoS ONE</i> , <b>2011</b> , 6, e26640	3.7	6
19	Novel adherent CD11b Gr-1 tumor-infiltrating cells initiate an immunosuppressive tumor microenvironment. <i>Oncotarget</i> , <b>2018</b> , 9, 11209-11226	3.3	6
18	Role of TGF-beta in EGF-induced transformation of NRK cells is sustaining high-level EGF-signaling. <i>FEBS Letters</i> , <b>2000</b> , 466, 160-4	3.8	5
17	Uniform Cell Distribution Achieved by Using Cell Deformation in a Micropillar Array. <i>Micromachines</i> , <b>2015</b> , 6, 409-422	3.3	4
16	In vivo imaging of brain ischemia using an oxygen-dependent degradative fusion protein probe. <i>PLoS ONE</i> , <b>2012</b> , 7, e48051	3.7	4
15	Microfluidic High-Migratory Cell Collector Suppressing Artifacts Caused by Microstructures. <i>Micromachines</i> , <b>2019</b> , 10,	3.3	3
14	Microfluidic Device for Screening for Target Cell-Specific Binding Molecules by Using Adherent Cells. <i>Micromachines</i> , <b>2019</b> , 10,	3.3	3
13	Transient over-expression of NGFI-A gene suppresses NGF-induced neurite outgrowth in PC12 cells. <i>NeuroReport</i> , <b>2000</b> , 11, 1001-5	1.7	3
12	Reconstitution of an Anti-HER2 Antibody Paratope by Grafting Dual CDR-Derived Peptides onto a Small Protein Scaffold. <i>Biotechnology Journal</i> , <b>2020</b> , 15, e2000078	5.6	3
11	Taip2 is a novel cell death-related gene expressed in the brain during development. <i>Biochemical and Biophysical Research Communications</i> , <b>2008</b> , 369, 426-31	3.4	2
10	Targeting hypoxic cancer cells with a protein prodrug is effective in experimental malignant ascites <b>2004</b> , 25, 713		2
9	Slicing Spheroids in Microfluidic Devices for Morphological and Immunohistochemical Analysis. <i>Micromachines</i> , <b>2020</b> , 11,	3.3	1
8	Development of a novel interferon- $\gamma$ gene construct with a repetitive hypoxia-inducible factor binding site and its suppressive effects on human renal cell carcinoma cell lines in vitro. <i>International Journal of Clinical Oncology</i> , <b>2014</b> , 19, 497-504	4.2	1
7	Development of a novel fluorescent imaging probe for tumor hypoxia by use of a fusion protein with oxygen-dependent degradation domain of HIF-1 <b>2007</b> ,		1

6	Antibody-guided design and identification of CD25-binding small antibody mimetics using mammalian cell surface display. <i>Scientific Reports</i> , <b>2021</b> , 11, 22098	4.9	1
5	Hypoxia inducible factor-1 influences sensitivity to paclitaxel of human lung cancer cell lines under normoxic conditions. <i>Cell Biology International</i> , <b>2008</b> , 32, S38-S38	4.5	
4	Imaging and Targeting Tumors by Fusion Proteins with ODD Domain of HIF-1 <i>Journal of the Society of Japanese Women Scientists</i> , <b>2008</b> , 9, 13-19	0	
3	Application of HaloTag Technology to in Vivo Molecular Imaging Using Protein Probes Labeled by Metallic Radionuclides. <i>Radioisotopes</i> , <b>2016</b> , 65, 247-255	0.1	
2	A Murine Bone Metastasis Model Using Caudal Artery Injection and Bioluminescence Imaging. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2274, 37-42	1.4	
1	Droplet-based valveless microfluidic system for phage-display screening against spheroids.. <i>Biomicrofluidics</i> , <b>2022</b> , 16, 024107	3.2	