Shinae Kizaka-Kondoh

List of Publications by Year in Descending Order

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	Droplet-based valveless microfluidic system for phage-display screening against spheroids.. *Biomicrofluidics*, **2022**, 16, 024107	3.2	
94	Antibody-guided design and identification of CD25-binding small antibody mimetics using mammalian cell surface display. *Scientific Reports*, **2021**, 11, 22098	4.9	1
93	A Murine Bone Metastasis Model Using Caudal Artery Injection and Bioluminescence Imaging. *Methods in Molecular Biology*, **2021**, 2274, 37-42	1.4	
92	Slicing Spheroids in Microfluidic Devices for Morphological and Immunohistochemical Analysis. *Micromachines*, **2020**, 11,	3.3	1
91	Strategic design to create HER2-targeting proteins with target-binding peptides immobilized on a fibronectin type III domain scaffold.. *RSC Advances*, **2020**, 10, 15154-15162	3.7	6
90	Design Strategy to Create Antibody Mimetics Harbouring Immobilised Complementarity Determining Region Peptides for Practical Use. *Scientific Reports*, **2020**, 10, 891	4.9	11
89	Design, synthesis, and evaluation of indeno[2,1-c]pyrazolones for use as inhibitors against hypoxia-inducible factor (HIF)-1 transcriptional activity. *Bioorganic and Medicinal Chemistry*, **2020**, 28, 115207	3.4	9
88	Reconstitution of an Anti-HER2 Antibody Paratope by Grafting Dual CDR-Derived Peptides onto a Small Protein Scaffold. *Biotechnology Journal*, **2020**, 15, e2000078	5.6	3
87	Microfluidic High-Migratory Cell Collector Suppressing Artifacts Caused by Microstructures. *Micromachines*, **2019**, 10,	3.3	3
86	Microfluidic Device for Screening for Target Cell-Specific Binding Molecules by Using Adherent Cells. *Micromachines*, **2019**, 10,	3.3	3
85	Synthesis and Luminescence Properties of Near-Infrared N-Heterocyclic Luciferin Analogues for In Vivo Optical Imaging. *Bulletin of the Chemical Society of Japan*, **2019**, 92, 608-618	5.1	17
84	Single-cell bioluminescence imaging of deep tissue in freely moving animals. *Science*, **2018**, 359, 935-939	33.3	181
83	A reliable murine model of bone metastasis by injecting cancer cells through caudal arteries. *Nature Communications*, **2018**, 9, 2981	17.4	46
82	Novel lymphoid enhancer-binding factor 1-cytoglobin axis promotes extravasation of osteosarcoma cells into the lungs. *Cancer Science*, **2018**, 109, 2746-2756	6.9	7
81	Novel adherent CD11b Gr-1 tumor-infiltrating cells initiate an immunosuppressive tumor microenvironment. *Oncotarget*, **2018**, 9, 11209-11226	3.3	6
80	Domain architecture of vasohibins required for their chaperone-dependent unconventional extracellular release. *Protein Science*, **2017**, 26, 452-463	6.3	7
79	Hypoxia-inducible factor-targeting prodrug TOP3 combined with gemcitabine or TS-1 improves pancreatic cancer survival in an orthotopic model. *Cancer Science*, **2016**, 107, 1151-8	6.9	14

78	A luciferin analogue generating near-infrared bioluminescence achieves highly sensitive deep-tissue imaging. *Nature Communications*, **2016**, 7, 11856	17.4	137
77	Application of HaloTag® Technology to in Vivo Molecular Imaging Using Protein Probes Labeled by Metallic Radionuclides. *Radioisotopes*, **2016**, 65, 247-255	0.1	
76	Investigation of the Influence of Glucose Concentration on Cancer Cells by Using a Microfluidic Gradient Generator without the Induction of Large Shear Stress. *Micromachines*, **2016**, 7,	3.3	9
75	A novel injectable BRET-based in vivo imaging probe for detecting the activity of hypoxia-inducible factor regulated by the ubiquitin-proteasome system. *Scientific Reports*, **2016**, 6, 34311	4.9	17
74	High resolution imaging of intracellular oxygen concentration by phosphorescence lifetime. *Scientific Reports*, **2015**, 5, 10657	4.9	84
73	A metal carbonyl-protein needle composite designed for intracellular CO delivery to modulate NF-κB activity. *Molecular BioSystems*, **2015**, 11, 3111-8		11
72	Preparation of a cross-linked porous protein crystal containing Ru carbonyl complexes as a CO-releasing extracellular scaffold. *Inorganic Chemistry*, **2015**, 54, 215-20	5.1	63
71	The effect of triamcinolone acetonide on laser-induced choroidal neovascularization in mice using a hypoxia visualization bio-imaging probe. *Scientific Reports*, **2015**, 5, 9898	4.9	14
70	Uniform Cell Distribution Achieved by Using Cell Deformation in a Micropillar Array. *Micromachines*, **2015**, 6, 409-422	3.3	4
69	Cell penetrating peptides improve tumor delivery of cargos through neuropilin-1-dependent extravasation. *Journal of Controlled Release*, **2015**, 201, 14-21	11.7	36
68	Development of a novel interferon-β gene construct with a repetitive hypoxia-inducible factor binding site and its suppressive effects on human renal cell carcinoma cell lines in vitro. *International Journal of Clinical Oncology*, **2014**, 19, 497-504	4.2	1
67	Intracellular CO release from composite of ferritin and ruthenium carbonyl complexes. *Journal of the American Chemical Society*, **2014**, 136, 16902-8	16.4	82
66	A fluorescent protein scaffold for presenting structurally constrained peptides provides an effective screening system to identify high affinity target-binding peptides. *PLoS ONE*, **2014**, 9, e103397	3.7	8
65	Bone resorption facilitates osteoblastic bone metastatic colonization by cooperation of insulin-like growth factor and hypoxia. *Cancer Science*, **2014**, 105, 553-9	6.9	9
64	Development of an oxygen-sensitive degradable peptide probe for the imaging of hypoxia-inducible factor-1-active regions in tumors. *Molecular Imaging and Biology*, **2013**, 15, 713-21	3.8	9
63	Radiosynthesis and initial evaluation of (18)F labeled nanocarrier composed of poly(L-lactic acid)-block-poly(sarcosine) amphiphilic polydepsipeptide. *Nuclear Medicine and Biology*, **2013**, 40, 387-94	2.1	33
62	A hypoxia-inducible factor (HIF)-3α splicing variant, HIF-3α4 impairs angiogenesis in hypervascular malignant meningiomas with epigenetically silenced HIF-3α. *Biochemical and Biophysical Research Communications*, **2013**, 433, 139-44	3.4	26
61	The protective role of the transmembrane thioredoxin-related protein TMX in inflammatory liver injury. *Antioxidants and Redox Signaling*, **2013**, 18, 1263-72	8.4	10

60	MT1-MMP plays a critical role in hematopoiesis by regulating HIF-mediated chemokine/cytokine gene transcription within niche cells. *Blood*, **2012**, 119, 5405-16	2.2	37
59	Development of a hypoxia-selective near-infrared fluorescent probe for non-invasive tumor imaging. *Chemical and Pharmaceutical Bulletin*, **2012**, 60, 402-7	1.9	18
58	2-Nitroimidazole-tricarbocyanine conjugate as a near-infrared fluorescent probe for in vivo imaging of tumor hypoxia. *Bioconjugate Chemistry*, **2012**, 23, 324-9	6.3	133
57	In vivo visualization of heterogeneous intratumoral distribution of hypoxia-inducible factor-1 activity by the fusion of high-resolution SPECT and morphological imaging tests. *Journal of Biomedicine and Biotechnology*, **2012**, 2012, 262741		6
56	Synthesis and biological activity of furanylindazoles as inhibitors of hypoxia inducible factor (HIF)-1 transcriptional activity. *MedChemComm*, **2012**, 3, 1455	5	19
55	In vivo imaging of brain ischemia using an oxygen-dependent degradative fusion protein probe. *PLoS ONE*, **2012**, 7, e48051	3.7	4
54	Detection of the onset of ischemia and carcinogenesis by hypoxia-inducible transcription factor-based in vivo bioluminescence imaging. *PLoS ONE*, **2011**, 6, e26640	3.7	6
53	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. *Journal of Pharmacological Sciences*, **2011**, 115, 440-5	3.7	10
52	Evaluation of [125I]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. *Cancer Science*, **2011**, 102, 2090-6	6.9	8
51	PET imaging of hypoxia-inducible factor-1-active tumor cells with pretargeted oxygen-dependent degradable streptavidin and a novel 18F-labeled biotin derivative. *Molecular Imaging and Biology*, **2011**, 13, 1003-10	3.8	18
50	Noninvasive tracking of donor cell homing by near-infrared fluorescence imaging shortly after bone marrow transplantation. *PLoS ONE*, **2010**, 5, e11114	3.7	15
49	In vivo imaging of HIF-active tumors by an oxygen-dependent degradation protein probe with an interchangeable labeling system. *PLoS ONE*, **2010**, 5, e15736	3.7	33
48	Functional molecular imaging of ILK-mediated Akt/PKB signaling cascades and the associated role of beta-parvin. *Journal of Cell Science*, **2010**, 123, 747-55	5.3	27
47	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. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 13063-8	11.5	124
46	Early protective effect of bone marrow mononuclear cells against ischemic white matter damage through augmentation of cerebral blood flow. *Stroke*, **2010**, 41, 2938-43	6.7	51
45	Persisting mild hypothermia suppresses hypoxia-inducible factor-1alpha protein synthesis and hypoxia-inducible factor-1-mediated gene expression. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2010**, 298, R661-71	3.2	34
44	Rapid detection of hypoxia-inducible factor-1-active tumours: pretargeted imaging with a protein degrading in a mechanism similar to hypoxia-inducible factor-1alpha. *European Journal of Nuclear Medicine and Molecular Imaging*, **2010**, 37, 1566-74	8.8	11
43	Imaging and Targeting of the Hypoxia-inducible Factor 1-active Microenvironment. *Journal of Toxicologic Pathology*, **2009**, 22, 93-100	1.4	7

42	The Akt/mTOR pathway assures the synthesis of HIF-1alpha protein in a glucose- and reoxygenation-dependent manner in irradiated tumors. *Journal of Biological Chemistry*, **2009**, 284, 5332-42	5.4	130
41	Enhanced percolation and gene expression in tumor hypoxia by PEGylated polyplex micelles. *Molecular Therapy*, **2009**, 17, 1404-10	11.7	28
40	Selective killing of hypoxia-inducible factor-1-active cells improves survival in a mouse model of invasive and metastatic pancreatic cancer. *Clinical Cancer Research*, **2009**, 15, 3433-41	12.9	72
39	Imaging of HIF-1-active tumor hypoxia using a protein effectively delivered to and specifically stabilized in HIF-1-active tumor cells. *Journal of Nuclear Medicine*, **2009**, 50, 942-9	8.9	27
38	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. *Molecular Biology of the Cell*, **2009**, 20, 4552-62	3.5	28
37	Near-infrared fluorescence tumor imaging using nanocarrier composed of poly(L-lactic acid)-block-poly(sarcosine) amphiphilic polydepsipeptide. *Biomaterials*, **2009**, 30, 5156-60	15.6	110
36	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. *Diabetologia*, **2009**, 52, 1092-101	10.3	71
35	Significance of nitroimidazole compounds and hypoxia-inducible factor-1 for imaging tumor hypoxia. *Cancer Science*, **2009**, 100, 1366-73	6.9	165
34	The HIF-1-active microenvironment: an environmental target for cancer therapy. *Advanced Drug Delivery Reviews*, **2009**, 61, 623-32	18.5	52
33	TS-1 enhances the effect of radiotherapy by suppressing radiation-induced hypoxia-inducible factor-1 activation and inducing endothelial cell apoptosis. *Cancer Science*, **2008**, 99, 2327-35	6.9	44
32	Taip2 is a novel cell death-related gene expressed in the brain during development. *Biochemical and Biophysical Research Communications*, **2008**, 369, 426-31	3.4	2
31	Near-infrared fluorescent labeled peptosome for application to cancer imaging. *Bioconjugate Chemistry*, **2008**, 19, 109-17	6.3	102
30	n-Propyl gallate activates hypoxia-inducible factor 1 by modulating intracellular oxygen-sensing systems. *Biochemical Journal*, **2008**, 411, 97-105	3.8	15
29	Biomedical applications of imidazolium cation-modified iron oxide nanoparticles. *Polymers for Advanced Technologies*, **2008**, 19, 1421-1429	3.2	48
28	Hypoxia inducible factor-1 influences sensitivity to paclitaxel of human lung cancer cell lines under normoxic conditions. *Cell Biology International*, **2008**, 32, S38-S38	4.5	
27	Imaging and Targeting Tumors by Fusion Proteins with ODD Domain of HIF-1 *Journal of the Society of Japanese Women Scientists*, **2008**, 9, 13-19	0	
26	Significance of HIF-1-active cells in angiogenesis and radioresistance. *Oncogene*, **2007**, 26, 7508-16	9.2	108
25	Hypoxia inducible factor-1 influences sensitivity to paclitaxel of human lung cancer cell lines under normoxic conditions. *Cancer Science*, **2007**, 98, 1394-401	6.9	42

24	Hypoxia and hypoxia-inducible factor-1 expression enhance osteolytic bone metastases of breast cancer. *Cancer Research*, **2007**, 67, 4157-63	10.1	193
23	Development of a novel fluorescent imaging probe for tumor hypoxia by use of a fusion protein with oxygen-dependent degradation domain of HIF-1 **2007**,		1
22	The combination of hypoxia-response enhancers and an oxygen-dependent proteolytic motif enables real-time imaging of absolute HIF-1 activity in tumor xenografts. *Biochemical and Biophysical Research Communications*, **2007**, 360, 791-6	3.4	57
21	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. *Endocrinology*, **2006**, 147, 733-43	4.8	55
20	Suppression of VEGF transcription in renal cell carcinoma cells by pyrrole-imidazole hairpin polyamides targeting the hypoxia responsive element. *Acta Oncologica*, **2006**, 45, 317-24	3.2	27
19	Mechanism of hypoxia-specific cytotoxicity of procaspase-3 fused with a VHL-mediated protein destruction motif of HIF-1alpha containing Pro564. *FEBS Letters*, **2006**, 580, 5718-22	3.8	28
18	Antitumor protein therapy; application of the protein transduction domain to the development of a protein drug for cancer treatment. *Breast Cancer*, **2006**, 13, 16-26	3.4	45
17	Optical Imaging of Tumor Hypoxia and Evaluation of Efficacy of a Hypoxia-Targeting Drug in Living Animals. *Molecular Imaging*, **2005**, 4, 153535002005051	3.7	74
16	Optical imaging of tumor hypoxia and evaluation of efficacy of a hypoxia-targeting drug in living animals. *Molecular Imaging*, **2005**, 4, 182-93	3.7	45
15	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. *Journal of Biological Chemistry*, **2004**, 279, 26176-83	5.4	85
14	Induction of hypoxia-inducible factor 1 activity by muscarinic acetylcholine receptor signaling. *Journal of Biological Chemistry*, **2004**, 279, 41521-8	5.4	45
13	Targeting hypoxic cancer cells with a protein prodrug is effective in experimental malignant ascites **2004**, 25, 713		2
12	Nitric oxide induces hypoxia-inducible factor 1 activation that is dependent on MAPK and phosphatidylinositol 3-kinase signaling. *Journal of Biological Chemistry*, **2004**, 279, 2550-8	5.4	160
11	TMX, a human transmembrane oxidoreductase of the thioredoxin family: the possible role in disulfide-linked protein folding in the endoplasmic reticulum. *Archives of Biochemistry and Biophysics*, **2004**, 423, 81-7	4.1	35
10	Tumor hypoxia: a target for selective cancer therapy. *Cancer Science*, **2003**, 94, 1021-8	6.9	290
9	Inhibition of apoptosis in normal and transformed intestinal epithelial cells by cAMP through induction of inhibitor of apoptosis protein (IAP)-2. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 8921-6	11.5	115
8	Antitumor effect of TAT-oxygen-dependent degradation-caspase-3 fusion protein specifically stabilized and activated in hypoxic tumor cells. *Cancer Research*, **2002**, 62, 2013-8	10.1	112
7	Identification of a novel thioredoxin-related transmembrane protein. *Journal of Biological Chemistry*, **2001**, 276, 10032-8	5.4	80

6	c-IAP2 is induced by ionizing radiation through NF-kappaB binding sites. *FEBS Letters*, **2001**, 491, 40-4	3.8	28
5	Transient over-expression of NGFI-A gene suppresses NGF-induced neurite outgrowth in PCI2 cells. *NeuroReport*, **2000**, 11, 1001-5	1.7	3
4	Identification of a series of transforming growth factor beta-responsive genes by retrovirus-mediated gene trap screening. *Molecular and Cellular Biology*, **2000**, 20, 3266-73	4.8	37
3	Role of TGF-beta in EGF-induced transformation of NRK cells is sustaining high-level EGF-signaling. *FEBS Letters*, **2000**, 466, 160-4	3.8	5
2	Constitutive association of EGF receptor with the CrkII-23 mutant that inhibits transformation of NRK cells by EGF and TGF-beta. *Cellular Signalling*, **1998**, 10, 283-90	4.9	9
1	Raf-1 is not a major upstream regulator of MAP kinases in rat fibroblasts. *FEBS Letters*, **1993**, 336, 255-8	3.8	27