Shinae Kizaka-Kondoh

List of Publications by Year
in descending order

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97	4,844	87888 38	95266 68
papers	citations	h-index	g-index

97	97	97	7036
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Tumor hypoxia: A target for selective cancer therapy. Cancer Science, 2003, 94, 1021-1028.	3.9	329
2	Single-cell bioluminescence imaging of deep tissue in freely moving animals. Science, 2018, 359, 935-939.	12.6	319
3	Hypoxia and Hypoxia-Inducible Factor-1 Expression Enhance Osteolytic Bone Metastases of Breast Cancer. Cancer Research, 2007, 67, 4157-4163.	0.9	217
4	Significance of nitroimidazole compounds and hypoxiaâ€inducible factorâ€1 for imaging tumor hypoxia. Cancer Science, 2009, 100, 1366-1373.	3.9	201
5	Nitric Oxide Induces Hypoxia-inducible Factor 1 Activation That Is Dependent on MAPK and Phosphatidylinositol 3-Kinase Signaling. Journal of Biological Chemistry, 2004, 279, 2550-2558.	3.4	193
6	A luciferin analogue generating near-infrared bioluminescence achieves highly sensitive deep-tissue imaging. Nature Communications, 2016, 7, 11856.	12.8	190
7	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, 13063-13068.	7.1	154
8	2-Nitroimidazole-Tricarbocyanine Conjugate as a Near-Infrared Fluorescent Probe for in Vivo Imaging of Tumor Hypoxia. Bioconjugate Chemistry, 2012, 23, 324-329.	3.6	150
9	The Akt/mTOR Pathway Assures the Synthesis of HIF-1Î± Protein in a Glucose- and Reoxygenation-dependent Manner in Irradiated Tumors. Journal of Biological Chemistry, 2009, 284, 5332-5342.	3.4	145
10	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.	0.9	130
11	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, 8921-8926.	7.1	128
12	Significance of HIF-1-active cells in angiogenesis and radioresistance. Oncogene, 2007, 26, 7508-7516.	5.9	124
13	Near-infrared fluorescence tumor imaging using nanocarrier composed of poly(l-lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	11.4	120
14	Near-Infrared Fluorescent Labeled Peptosome for Application to Cancer Imaging. Bioconjugate Chemistry, 2008, 19, 109-117.	3.6	110
15	High resolution imaging of intracellular oxygen concentration by phosphorescence lifetime. Scientific Reports, 2015, 5, 10657.	3.3	100
16	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, 26176-26183.	3.4	97
17	Identification of a Novel Thioredoxin-related Transmembrane Protein. Journal of Biological Chemistry, 2001, 276, 10032-10038.	3.4	91
18	Optical Imaging of Tumor Hypoxia and Evaluation of Efficacy of a Hypoxia-Targeting Drug in Living Animals. Molecular Imaging, 2005, 4, 153535002005051.	1.4	89

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19	Intracellular CO Release from Composite of Ferritin and Ruthenium Carbonyl Complexes. Journal of the American Chemical Society, 2014, 136, 16902-16908.	13.7	89
20	Selective Killing of Hypoxia-Inducible Factor-1â€“Active Cells Improves Survival in a Mouse Model of Invasive and Metastatic Pancreatic Cancer. Clinical Cancer Research, 2009, 15, 3433-3441.	7.0	84
21	A reliable murine model of bone metastasis by injecting cancer cells through caudal arteries. Nature Communications, 2018, 9, 2981.	12.8	83
22	Cytokine-mediated induction of anti-apoptotic genes that are linked to nuclear factor kappa-B (NF-ÎºB) signalling in human islets and in a mouse beta cell line. Diabetologia, 2009, 52, 1092-1101.	6.3	78
23	Preparation of a Cross-Linked Porous Protein Crystal Containing Ru Carbonyl Complexes as a CO-Releasing Extracellular Scaffold. Inorganic Chemistry, 2015, 54, 215-220.	4.0	72
24	The HIF-1-active microenvironment: An environmental target for cancer therapy. Advanced Drug Delivery Reviews, 2009, 61, 623-632.	13.7	67
25	Thioredoxin-Binding Protein-2-Like Inducible Membrane Protein Is a Novel Vitamin D3 and Peroxisome Proliferator-Activated Receptor (PPAR)Î³ Ligand Target Protein that Regulates PPARÎ³ Signaling. Endocrinology, 2006, 147, 733-743.	2.8	64
26	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, 791-796.	2.1	61
27	Early Protective Effect of Bone Marrow Mononuclear Cells Against Ischemic White Matter Damage Through Augmentation of Cerebral Blood Flow. Stroke, 2010, 41, 2938-2943.	2.0	58
28	Induction of Hypoxia-inducible Factor 1 Activity by Muscarinic Acetylcholine Receptor Signaling. Journal of Biological Chemistry, 2004, 279, 41521-41528.	3.4	53
29	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.	2.9	53
30	Optical imaging of tumor hypoxia and evaluation of efficacy of a hypoxia-targeting drug in living animals. Molecular Imaging, 2005, 4, 182-93.	1.4	52
31	MT1-MMP plays a critical role in hematopoiesis by regulating HIF-mediated chemokine/cytokine gene transcription within niche cells. Blood, 2012, 119, 5405-5416.	1.4	51
32	Biomedical applications of imidazolium cationâ€•modified iron oxide nanoparticles. Polymers for Advanced Technologies, 2008, 19, 1421-1429.	3.2	49
33	TSâ€1 enhances the effect of radiotherapy by suppressing radiationâ€•induced hypoxiaâ€•inducible factorâ€1 activation and inducing endothelial cell apoptosis. Cancer Science, 2008, 99, 2327-2335.	3.9	47
34	Cell penetrating peptides improve tumor delivery of cargos through neuropilin-1-dependent extravasation. Journal of Controlled Release, 2015, 201, 14-21.	9.9	47
35	Hypoxia inducible factor-1 influences sensitivity to paclitaxel of human lung cancer cell lines under normoxic conditions. Cancer Science, 2007, 98, 1394-1401.	3.9	45
36	Identification of a Series of Transforming Growth Factor Î²-Responsive Genes by Retrovirus-Mediated Gene Trap Screening. Molecular and Cellular Biology, 2000, 20, 3266-3273.	2.3	40

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37	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, 81-87.	3.0	39
38	Persisting mild hypothermia suppresses hypoxia-inducible factor-1Î± protein synthesis and hypoxia-inducible factor-1-mediated gene expression. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 298, R661-R671.	1.8	39
39	Radiosynthesis and initial evaluation of 18F labeled nanocarrier composed of poly(L-lactic) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 387-394.	0.6	38
40	In Vivo Imaging of HIF-Active Tumors by an Oxygen-Dependent Degradation Protein Probe with an Interchangeable Labeling System. PLoS ONE, 2010, 5, e15736.	2.5	34
41	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, 942-949.	5.0	33
42	Functional molecular imaging of ILK-mediated Akt/PKB signaling cascades and the associated role of Î²-parvin. Journal of Cell Science, 2010, 123, 747-755.	2.0	32
43	Mechanism of hypoxia-specific cytotoxicity of procaspase-3 fused with a VHL-mediated protein destruction motif of HIF-1Î± containing Pro564. FEBS Letters, 2006, 580, 5718-5722.	2.8	31
44	Enhanced Percolation and Gene Expression in Tumor Hypoxia by PEGylated Polyplex Micelles. Molecular Therapy, 2009, 17, 1404-1410.	8.2	30
45	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, 4552-4562.	2.1	30
46	Raf-1 is not a major upstream regulator of MAP kinases in rat fibroblasts. FEBS Letters, 1993, 336, 255-258.	2.8	29
47	c-IAP2 is induced by ionizing radiation through NF-Î°B binding sites. FEBS Letters, 2001, 491, 40-44.	2.8	29
48	A hypoxia-inducible factor (HIF)-3Î± splicing variant, HIF-3Î±4 impairs angiogenesis in hypervascular malignant meningiomas with epigenetically silenced HIF-3Î±4. Biochemical and Biophysical Research Communications, 2013, 433, 139-144.	2.1	29
49	Suppression of VEGF transcription in renal cell carcinoma cells by pyrrole-imidazole hairpin polyamides targeting the hypoxia responsive element. Acta OncolÃ³gica, 2006, 45, 317-324.	1.8	28
50	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, 1003-1010.	2.6	22
51	Synthesis and biological activity of furanylindazoles as inhibitors of hypoxia inducible factor (HIF)-1 transcriptional activity. MedChemComm, 2012, 3, 1455.	3.4	21
52	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.	3.2	21
53	Development of a Hypoxia-Selective Near-Infrared Fluorescent Probe for Non-invasive Tumor Imaging. Chemical and Pharmaceutical Bulletin, 2012, 60, 402-407.	1.3	18
54	The effect of triamcinolone acetonide on laser-induced choroidal neovascularization in mice using a hypoxia visualization bio-imaging probe. Scientific Reports, 2015, 5, 9898.	3.3	18

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55	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.	3.3	18
56	Noninvasive Tracking of Donor Cell Homing by Near-Infrared Fluorescence Imaging Shortly after Bone Marrow Transplantation. PLoS ONE, 2010, 5, e11114.	2.5	17
57	Hypoxiaâ€inducible factorâ€targeting prodrug <scp>TOP</scp>3 combined with gemcitabine or <scp>TS</scp>â€1 improves pancreatic cancer survival in an orthotopic model. Cancer Science, 2016, 107, 1151-1158.	3.9	17
58	n-Propyl gallate activates hypoxia-inducible factor 1 by modulating intracellular oxygen-sensing systems. Biochemical Journal, 2008, 411, 97-105.	3.7	16
59	Rapid detection of hypoxia-inducible factor-1-active tumours: pretargeted imaging with a protein degrading in a mechanism similar to hypoxia-inducible factor-1Î±. European Journal of Nuclear Medicine and Molecular Imaging, 2010, 37, 1566-1574.	6.4	16
60	A metal carbonylâ€“protein needle composite designed for intracellular CO delivery to modulate NF-ÎºB activity. Molecular BioSystems, 2015, 11, 3111-3118.	2.9	16
61	Evaluation of [¹²⁵I]IPOS as a molecular imaging probe for hypoxiaâ€inducible factorâ€1â€active regions in a tumor: Comparison among singleâ€photon emission computed tomography/Xâ€ray computed tomography imaging, autoradiography, and immunohistochemistry. Cancer Science, 2011, 102, 2090-2096.	3.9	14
62	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.	3.0	14
63	Design Strategy to Create Antibody Mimetics Harbouring Immobilised Complementarity Determining Region Peptides for Practical Use. Scientific Reports, 2020, 10, 891.	3.3	14
64	The Protective Role of the Transmembrane Thioredoxin-Related Protein TMX in Inflammatory Liver Injury. Antioxidants and Redox Signaling, 2013, 18, 1263-1272.	5.4	13
65	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, 713-721.	2.6	12
66	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, 155.	2.9	12
67	Pathophysiological Response to Hypoxia â€" 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, 440-445.	2.5	11
68	Bone resorption facilitates osteoblastic bone metastatic colonization by cooperation of insulinâ€like growth factor and hypoxia. Cancer Science, 2014, 105, 553-559.	3.9	11
69	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.	2.5	10
70	Domain architecture of vasohibins required for their chaperoneâ€dependent unconventional extracellular release. Protein Science, 2017, 26, 452-463.	7.6	10
71	Constitutive Association of EGF Receptor with the CrkII-23 Mutant that Inhibits Transformation of NRK Cells by EGF and TGF-Î². Cellular Signalling, 1998, 10, 283-290.	3.6	9
72	Targeting hypoxic cancer cells with a protein prodrug is effective in experimental malignant ascites. International Journal of Oncology, 2004, 25, 713.	3.3	9

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73	Imaging and Targeting of the Hypoxia-inducible Factor 1-active Microenvironment. Journal of Toxicologic Pathology, 2009, 22, 93-100.	0.7	9
74	In VivoVisualization of Heterogeneous Intratumoral Distribution of Hypoxia-Inducible Factor-1<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="bold">Î±</mml:mi></mml:math>Activity by the Fusion of High-Resolution SPECT and Morphological Imaging Tests. Journal of Biomedicine and Biotechnology, 2012, 2012, 1-6.	3.0	9
75	Reconstitution of an Antiâ€HER2 Antibody Paratope by Grafting Dual CDRâ€Derived Peptides onto a Small Protein Scaffold. Biotechnology Journal, 2020, 15, 2000078.	3.5	9
76	Detection of the Onset of Ischemia and Carcinogenesis by Hypoxia-Inducible Transcription Factor-Based In Vivo Bioluminescence Imaging. PLoS ONE, 2011, 6, e26640.	2.5	8
77	Slicing Spheroids in Microfluidic Devices for Morphological and Immunohistochemical Analysis. Micromachines, 2020, 11, 480.	2.9	8
78	Novel adherent CD11b+ Gr-1+ tumor-infiltrating cells initiate an immunosuppressive tumor microenvironment. Oncotarget, 2018, 9, 11209-11226.	1.8	8
79	Role of TGF-Î² in EGF-induced transformation of NRK cells is sustaining high-level EGF-signaling1. FEBS Letters, 2000, 466, 160-164.	2.8	7
80	In Vivo Imaging of Brain Ischemia Using an Oxygen-Dependent Degradative Fusion Protein Probe. PLoS ONE, 2012, 7, e48051.	2.5	7
81	Uniform Cell Distribution Achieved by Using Cell Deformation in a Micropillar Array. Micromachines, 2015, 6, 409-422.	2.9	7
82	Novel lymphoid enhancerâ€binding factor 1â€cytoglobin axis promotes extravasation of osteosarcoma cells into the lungs. Cancer Science, 2018, 109, 2746-2756.	3.9	7
83	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.	3.6	6
84	Microfluidic Device for Screening for Target Cell-Specific Binding Molecules by Using Adherent Cells. Micromachines, 2019, 10, 41.	2.9	4
85	Transient over-expression of NGFI-A gene suppresses NGF-induced neurite outgrowth in PC12 cells. NeuroReport, 2000, 11, 1001-1005.	1.2	3
86	Microfluidic High-Migratory Cell Collector Suppressing Artifacts Caused by Microstructures. Micromachines, 2019, 10, 116.	2.9	3
87	Development of a novel fluorescent imaging probe for tumor hypoxia by use of a fusion protein with oxygen-dependent degradation domain of HIF-1Î±. , 2007, , .		2
88	Taip2 is a novel cell death-related gene expressed in the brain during development. Biochemical and Biophysical Research Communications, 2008, 369, 426-431.	2.1	2
89	Development of a novel interferon-Î±2b 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.	2.2	2
90	Antibody-guided design and identification of CD25-binding small antibody mimetics using mammalian cell surface display. Scientific Reports, 2021, 11, 22098.	3.3	2

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91	A Murine Bone Metastasis Model Using Caudal Artery Injection and Bioluminescence Imaging. Methods in Molecular Biology, 2021, 2274, 37-42.	0.9	1
92	Hypoxia inducible factor-1 influences sensitivity to paclitaxel of human lung cancer cell lines under normoxic conditions. Cell Biology International, 2008, 32, S38-S38.	3.0	0
93	Intravenously administered bone marrow cells alleviates white matter lesions in a model of chronic cerebral hypoperfusion. Neuroscience Research, 2009, 65, S123.	1.9	0
94	Imaging probe for tumor malignancy. , 2009, , .		0
95	Imaging and Targeting Tumors by Fusion Proteins with ODD Domain of HIF-1Î±. Journal of the Society of Japanese Women Scientists, 2008, 9, 13-19.	0.0	0
96	Application of HaloTagÂ® Technology to <i>in Vivo</i> Molecular Imaging Using Protein Probes Labeled by Metallic Radionuclides. Radioisotopes, 2016, 65, 247-255.	0.2	0
97	Droplet-based valveless microfluidic system for phage-display screening against spheroids. Biomicrofluidics, 2022, 16, 024107.	2.4	0