

Kwon-ho Hong

List of Publications by Year in descending order

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88
papers

5,385
citations

218381

26
h-index

85405

71
g-index

91
all docs

91
docs citations

91
times ranked

9003
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of Tet proteins in 5mC to 5hmC conversion, ES-cell self-renewal and inner cell mass specification. Nature, 2010, 466, 1129-1133.	13.7	2,224
2	A role for the elongator complex in zygotic paternal genome demethylation. Nature, 2010, 463, 554-558.	13.7	258
3	Tet1 controls meiosis by regulating meiotic gene expression. Nature, 2012, 492, 443-447.	13.7	255
4	Genetic Ablation of the <i>Bmpr2</i> Gene in Pulmonary Endothelium Is Sufficient to Predispose to Pulmonary Arterial Hypertension. Circulation, 2008, 118, 722-730.	1.6	222
5	ALK5- and TGFBR2-independent role of ALK1 in the pathogenesis of hereditary hemorrhagic telangiectasia type 2. Blood, 2008, 111, 633-642.	0.6	212
6	Antiviral Potential of Nanoparticles—Can Nanoparticles Fight Against Coronaviruses?. Nanomaterials, 2020, 10, 1645.	1.9	162
7	Dynamics of 5-methylcytosine and 5-hydroxymethylcytosine during germ cell reprogramming. Cell Research, 2013, 23, 329-339.	5.7	152
8	Prevention of Pulmonary Hypertension by Angiotensin-Converting Enzyme 2 Gene Transfer. Hypertension, 2009, 54, 365-371.	1.3	138
9	Melatonin prevents cisplatin-induced primordial follicle loss via suppression of <i>PTEN</i> / <i>AKT</i> / <i>FOXO3a</i> pathway activation in the mouse ovary. Journal of Pineal Research, 2016, 60, 336-347.	3.4	129
10	Cytotoxic Potential and Molecular Pathway Analysis of Silver Nanoparticles in Human Colon Cancer Cells HCT116. International Journal of Molecular Sciences, 2018, 19, 2269.	1.8	119
11	Nonoverlapping expression patterns of ALK1 and ALK5 reveal distinct roles of each receptor in vascular development. Laboratory Investigation, 2006, 86, 116-129.	1.7	100
12	Roles of microRNAs in mammalian reproduction: from the commitment of germ cells to peri-implantation embryos. Biological Reviews, 2019, 94, 415-438.	4.7	94
13	Cytotoxicity and Transcriptomic Analysis of Silver Nanoparticles in Mouse Embryonic Fibroblast Cells. International Journal of Molecular Sciences, 2018, 19, 3618.	1.8	68
14	B-Cell Translocation Gene 2 (<i>Btg2</i>) Regulates Vertebral Patterning by Modulating Bone Morphogenetic Protein/Smad Signaling. Molecular and Cellular Biology, 2004, 24, 10256-10262.	1.1	67
15	Synergistic effect of melatonin and ghrelin in preventing cisplatin-induced ovarian damage via regulation of <i>FOXO3a</i> phosphorylation and binding to the <i>p27</i> / <i>Kip1</i> promoter in primordial follicles. Journal of Pineal Research, 2017, 63, e12432.	3.4	65
16	Evaluation of Graphene Oxide Induced Cellular Toxicity and Transcriptome Analysis in Human Embryonic Kidney Cells. Nanomaterials, 2019, 9, 969.	1.9	65
17	Hydrodynamic shear stress promotes epithelial-mesenchymal transition by downregulating ERK and GSK3 ^β activities. Breast Cancer Research, 2019, 21, 6.	2.2	65
18	Biodegradable Nanotopography Combined with Neurotrophic Signals Enhances Contact Guidance and Neuronal Differentiation of Human Neural Stem Cells. Macromolecular Bioscience, 2015, 15, 1348-1356.	2.1	53

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19	Marine Biomaterial-Based Bioinks for Generating 3D Printed Tissue Constructs. <i>Marine Drugs</i> , 2018, 16, 484.	2.2	48
20	Emerging function of N6-methyladenosine in cancer (Review). <i>Oncology Letters</i> , 2018, 16, 5519-5524.	0.8	42
21	SMAD1 Deficiency in Either Endothelial or Smooth Muscle Cells Can Predispose Mice to Pulmonary Hypertension. <i>Hypertension</i> , 2013, 61, 1044-1052.	1.3	41
22	Melatonin and Fertoprotective Adjuvants: Prevention against Premature Ovarian Failure during Chemotherapy. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1221.	1.8	38
23	Isolation of a Regulatory Region of Activin Receptor-Like Kinase 1 Gene Sufficient for Arterial Endothelium-Specific Expression. <i>Circulation Research</i> , 2004, 94, e72-7.	2.0	36
24	Cytotoxicity and Transcriptomic Analyses of Biogenic Palladium Nanoparticles in Human Ovarian Cancer Cells (SKOV3). <i>Nanomaterials</i> , 2019, 9, 787.	1.9	36
25	Cytotoxicity Evaluation of Turmeric Extract Incorporated Oil-in-Water Nanoemulsion. <i>International Journal of Molecular Sciences</i> , 2018, 19, 280.	1.8	29
26	Piperlongumine decreases cell proliferation and the expression of cell cycle-associated proteins by inhibiting Akt pathway in human lung cancer cells. <i>Food and Chemical Toxicology</i> , 2018, 111, 9-18.	1.8	28
27	Stage-specific expression of DDX4 and c-kit at different developmental stages of the porcine testis. <i>Animal Reproduction Science</i> , 2018, 190, 18-26.	0.5	26
28	Anisotropic Platinum Nanoparticle-Induced Cytotoxicity, Apoptosis, Inflammatory Response, and Transcriptomic and Molecular Pathways in Human Acute Monocytic Leukemia Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 440.	1.8	26
29	Oxidative stress-induced inflammatory responses and effects of N-acetylcysteine in bovine mammary alveolar cells. <i>Journal of Dairy Research</i> , 2017, 84, 418-425.	0.7	25
30	Role of mitochondrial fission-related genes in mitochondrial morphology and energy metabolism in mouse embryonic stem cells. <i>Redox Biology</i> , 2020, 36, 101599.	3.9	25
31	Fusion of Reprogramming Factors Alters the Trajectory of Somatic Lineage Conversion. <i>Cell Reports</i> , 2019, 27, 30-39.e4.	2.9	23
32	Nonylphenol Induces Apoptosis through ROS/JNK Signaling in a Spermatogonia Cell Line. <i>International Journal of Molecular Sciences</i> , 2021, 22, 307.	1.8	21
33	Role of estrogen and RAS signaling in repeated implantation failure. <i>BMB Reports</i> , 2018, 51, 225-229.	1.1	21
34	Anti-apoptotic Regulation Contributes to the Successful Nuclear Reprogramming Using Cryopreserved Oocytes. <i>Stem Cell Reports</i> , 2019, 12, 545-556.	2.3	20
35	Comparative analysis of the mitochondrial morphology, energy metabolism, and gene expression signatures in three types of blastocyst-derived stem cells. <i>Redox Biology</i> , 2020, 30, 101437.	3.9	20
36	Activin receptor-like kinase 1 is essential for placental vascular development in mice. <i>Laboratory Investigation</i> , 2007, 87, 670-679.	1.7	18

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37	Indispensable role for mouse ELP3 in embryonic stem cell maintenance and early development. <i>Biochemical and Biophysical Research Communications</i> , 2016, 478, 631-636.	1.0	18
38	Epigenetic priming by Dot1l in lymphatic endothelial progenitors ensures normal lymphatic development and function. <i>Cell Death and Disease</i> , 2020, 11, 14.	2.7	17
39	Severe combined immunodeficiency pig as an emerging animal model for human diseases and regenerative medicines. <i>BMB Reports</i> , 2019, 52, 625-634.	1.1	17
40	The novel cathelicidin of naked mole rats, Hg-CATH, showed potent antimicrobial activity and low cytotoxicity. <i>Gene</i> , 2018, 676, 164-170.	1.0	16
41	TMEM100 is a key factor for specification of lymphatic endothelial progenitors. <i>Angiogenesis</i> , 2020, 23, 339-355.	3.7	15
42	Recombination activating gene-2null severe combined immunodeficient pigs and mice engraft human induced pluripotent stem cells differently. <i>Oncotarget</i> , 2017, 8, 69398-69407.	0.8	15
43	Copy number variation of PR-39 cathelicidin, and identification of PR-35, a natural variant of PR-39 with reduced mammalian cytotoxicity. <i>Gene</i> , 2019, 692, 88-93.	1.0	14
44	DMSO impairs the transcriptional program for maternal-to-embryonic transition by altering histone acetylation. <i>Biomaterials</i> , 2020, 230, 119604.	5.7	14
45	Insights from the Applications of Single-Cell Transcriptomic Analysis in Germ Cell Development and Reproductive Medicine. <i>International Journal of Molecular Sciences</i> , 2021, 22, 823.	1.8	14
46	Exercise Ameliorates Spinal Cord Injury by Changing DNA Methylation. <i>Cells</i> , 2021, 10, 143.	1.8	14
47	SOHLH2 is essential for synaptonemal complex formation during spermatogenesis in early postnatal mouse testes. <i>Scientific Reports</i> , 2016, 6, 20980.	1.6	13
48	Changes in the Expression of Mitochondrial Morphology-Related Genes during the Differentiation of Murine Embryonic Stem Cells. <i>Stem Cells International</i> , 2020, 2020, 1-12.	1.2	13
49	Generation of activin receptor type IIB isoform-specific hypomorphic alleles. <i>Genesis</i> , 2006, 44, 487-494.	0.8	12
50	Cellular reprogramming and its application in regenerative medicine. <i>Tissue Engineering and Regenerative Medicine</i> , 2015, 12, 80-89.	1.6	11
51	RASD1 Knockdown Results in Failure of Oocyte Maturation. <i>Cellular Physiology and Biochemistry</i> , 2016, 40, 1289-1302.	1.1	11
52	CD14 is a unique membrane marker of porcine spermatogonial stem cells, regulating their differentiation. <i>Scientific Reports</i> , 2019, 9, 9980.	1.6	11
53	Ascorbic Acid Promotes Functional Restoration after Spinal Cord Injury Partly by Epigenetic Modulation. <i>Cells</i> , 2020, 9, 1310.	1.8	11
54	Determination of complete sequence information of the human ABO blood group orthologous gene in pigs and breed difference in blood type frequencies. <i>Gene</i> , 2018, 640, 1-5.	1.0	10

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55	Opossum Cathelicidins Exhibit Antimicrobial Activity Against a Broad Spectrum of Pathogens Including West Nile Virus. <i>Frontiers in Immunology</i> , 2020, 11, 347.	2.2	10
56	Mouse JMJD4 is dispensable for embryogenesis. <i>Molecular Reproduction and Development</i> , 2016, 83, 588-593.	1.0	9
57	Rapid expression of RASD1 is regulated by estrogen receptor-dependent intracellular signaling pathway in the mouse uterus. <i>Molecular and Cellular Endocrinology</i> , 2017, 446, 32-39.	1.6	9
58	Microarray profiling of miRNA and mRNA expression in Rag2 knockout and wild-type mouse spleens. <i>Scientific Data</i> , 2018, 5, 170199.	2.4	9
59	Tudor Domain Containing Protein TDRD12 Expresses at the Acrosome of Spermatids in Mouse Testis. <i>Asian-Australasian Journal of Animal Sciences</i> , 2016, 29, 944-951.	2.4	8
60	Species-specific expression of phosphoglycerate kinase 2 (PGK2) in the developing porcine testis. <i>Theriogenology</i> , 2018, 110, 158-167.	0.9	8
61	Activation of peroxisome proliferator-activated receptor delta suppresses BACE1 expression by upregulating SOCS1 in a JAK2/STAT1-dependent manner. <i>Journal of Neurochemistry</i> , 2019, 151, 370-385.	2.1	8
62	Tubastatin A inhibits HDAC and Sirtuin activity rather than being a HDAC6-specific inhibitor in mouse oocytes. <i>Aging</i> , 2019, 11, 1759-1777.	1.4	8
63	The expression of aminoacyl-tRNA-synthetase-interacting multifunctional protein-1 (Aimp1) is regulated by estrogen in the mouse uterus. <i>Molecular and Cellular Endocrinology</i> , 2015, 399, 78-86.	1.6	7
64	Analysis of peptide-SLA binding by establishing immortalized porcine alveolar macrophage cells with different SLA class II haplotypes. <i>Veterinary Research</i> , 2018, 49, 96.	1.1	7
65	Hippo Signaling in the Endometrium. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3852.	1.8	7
66	TE composition of human long noncoding RNAs and their expression patterns in human tissues. <i>Genes and Genomics</i> , 2015, 37, 87-95.	0.5	6
67	Estrogen-dependent expression of sine oculis homeobox 1 in the mouse uterus during the estrous cycle. <i>Biochemical and Biophysical Research Communications</i> , 2016, 472, 489-495.	1.0	6
68	Activation of PPAR γ attenuates neurotoxicity by inhibiting lipopolysaccharide-triggered glutamate release in BV-2 microglial cells. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 5609-5619.	1.2	6
69	Identification and Evaluation of Cytotoxicity of Peptide Liposome Incorporated Citron Extracts in an In Vitro System. <i>International Journal of Molecular Sciences</i> , 2018, 19, 626.	1.8	6
70	Differential Regulation of TLE3 in Sertoli Cells of the Testes during Postnatal Development. <i>Cells</i> , 2019, 8, 1156.	1.8	6
71	Expression and Regulation of CD73 during the Estrous Cycle in Mouse Uterus. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9403.	1.8	6
72	Epitranscriptome: m6A and its function in stem cell biology. <i>Genes and Genomics</i> , 2017, 39, 371-378.	0.5	4

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73	Expression of Insulin-like Growth Factor Binding Protein-3 and Regulation of the Insulin-like Growth Factor-I Axis in Pig Testis. <i>Biotechnology and Bioprocess Engineering</i> , 2018, 23, 278-285.	1.4	4
74	ATP-Dependent Chromatin Remodeler CHD9 Controls the Proliferation of Embryonic Stem Cells in a Cell Culture Condition-Dependent Manner. <i>Biology</i> , 2020, 9, 428.	1.3	4
75	High-Quality Nucleic Acid Isolation from Hard-to-Lyse Bacterial Strains Using PMAP-36, a Broad-Spectrum Antimicrobial Peptide. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4149.	1.8	4
76	Efficient Generation of Neural Stem Cells from Embryonic Stem Cells Using a Three-Dimensional Differentiation System. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8322.	1.8	4
77	Generation of Mouse Parthenogenetic Epiblast Stem Cells and Their Imprinting Patterns. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5428.	1.8	3
78	Derivation of primitive neural stem cells from human-induced pluripotent stem cells. <i>Journal of Comparative Neurology</i> , 2019, 527, 3023-3033.	0.9	3
79	Generation of brain organoids from mouse ESCs via teratoma formation. <i>Stem Cell Research</i> , 2020, 49, 102100.	0.3	3
80	BIRC5 Expression Is Regulated in Uterine Epithelium during the Estrous Cycle. <i>Genes</i> , 2020, 11, 282.	1.0	3
81	Reprogramming of Extraembryonic Trophoblast Stem Cells into Embryonic Pluripotent State by Fusion with Embryonic Stem Cells. <i>Stem Cells and Development</i> , 2018, 27, 1350-1359.	1.1	2
82	Influence of habitat change from land to sea on the evolution of antimicrobial peptide gene families, including <i>defensin</i> gene clusters, in mammals. <i>Journal of Zoological Systematics and Evolutionary Research</i> , 2021, 59, 510-521.	0.6	2
83	High Allelic Diversity of Dog Leukocyte Antigen Class II in East Asian Dogs: Identification of New Alleles and Haplotypes. <i>Journal of Mammalian Evolution</i> , 2021, 28, 773-784.	1.0	2
84	5mC and 5hmC dynamics during PGC reprogramming and role of Tet1 in female meiosis. <i>Epigenetics and Chromatin</i> , 2013, 6, .	1.8	1
85	Function of TET proteins in germ cell reprogramming. <i>Genes and Genomics</i> , 2015, 37, 223-229.	0.5	1
86	Comparison of DNA/RNA yield and integrity between PMAP36-mediated and other bacterial lysis methods. <i>Journal of Microbiological Methods</i> , 2022, 193, 106396.	0.7	1
87	RNA sequencing data of mouse 2-cell embryos treated with DMSO. <i>Data in Brief</i> , 2020, 28, 105025.	0.5	0
88	Epigenetic Factors as Etiological Agents, Diagnostic Markers, and Therapeutic Targets for Luminal Breast Cancer. <i>Biomedicines</i> , 2022, 10, 748.	1.4	0