Kathy O Lui

List of Publications by Year
in descending order

86 papers	4,361 citations	136740 32 h-index	118652 62 g-index
89 all docs	89 docs citations	89 times ranked	6586 citing authors

#	Article	IF	Citations
1	Harnessing orthogonal recombinases to decipher cell fate with enhanced precision. Trends in Cell Biology, 2022, 32, 324-337.	3.6	13
2	Endothelial contribution to COVID-19: an update on mechanisms and therapeutic implications. Journal of Molecular and Cellular Cardiology, 2022, 164, 69-82.	0.9	34
3	Genetic Proliferation Tracing Reveals a Rapid Cell Cycle Withdrawal in Preadolescent Cardiomyocytes. Circulation, 2022, 145, 410-412.	1.6	9
4	YY1 Regulates Glucose Homeostasis Through Controlling Insulin Transcription in Pancreatic Î²-Cells. Diabetes, 2022, 71, 961-977.	0.3	6
5	Loss of m6A Methyltransferase METTL5 Promotes Cardiac Hypertrophy Through Epitranscriptomic Control of SUZ12 Expression. Frontiers in Cardiovascular Medicine, 2022, 9, 852775.	1.1	10
6	A human pluripotent stem cell-based model of SARS-CoV-2 infection reveals an ACE2-independent inflammatory activation of vascular endothelial cells through TLR4. Stem Cell Reports, 2022, 17, 538-555.	2.3	22
7	Dual Genetic Lineage Tracing Reveals Capillary to Artery Formation in the Adult Heart. Circulation, 2022, 145, 1179-1181.	1.6	3
8	Targeting endothelial dysfunction and inflammation. Journal of Molecular and Cellular Cardiology, 2022, 168, 58-67.	0.9	40
9	Dual Cre and Dre recombinases mediate synchronized lineage tracing and cell subset ablation inÂvivo. Journal of Biological Chemistry, 2022, 298, 101965.	1.6	4
10	Effects of nucleases on cell-free extrachromosomal circular DNA. JCI Insight, 2022, 7, .	2.3	12
11	Lineage tracing clarifies the cellular origin of tissue-resident macrophages in the developing heart. Journal of Cell Biology, 2022, 221, .	2.3	12
12	Calcitonin Gene-Related Peptide Enhances Distraction Osteogenesis by Increasing Angiogenesis. Tissue Engineering - Part A, 2021, 27, 87-102.	1.6	44
13	Pre-existing beta cells but not progenitors contribute to new beta cells in the adult pancreas. Nature Metabolism, 2021, 3, 352-365.	5.1	35
14	The cardiac translational landscape reveals that micropeptides are new players involved in cardiomyocyte hypertrophy. Molecular Therapy, 2021, 29, 2253-2267.	3.7	24
15	Nuclease deficiencies alter plasma cell-free DNA methylation profiles. Genome Research, 2021, 31, 2008-2021.	2.4	4
16	Chaperone Mediated Autophagy Regulates eNOS Uncoupling in Cardiovascular Events. Circulation Research, 2021, 129, 946-948.	2.0	0
17	Pancreatic beta cell neogenesis: Debates and updates. Cell Metabolism, 2021, 33, 2105-2107.	7.2	1
18	Smooth muscle-derived macrophage-like cells contribute to multiple cell lineages in the atherosclerotic plaque. Cell Discovery, 2021, 7, 111.	3.1	19

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19	Seamless Genetic Recording of Transiently Activated Mesenchymal Gene Expression in Endothelial Cells During Cardiac Fibrosis. Circulation, 2021, 144, 2004-2020.	1.6	25
20	Endothelial Agrin Is Dispensable for Normal and Tumor Angiogenesis. Frontiers in Cardiovascular Medicine, 2021, 8, 810477.	1.1	1
21	The Formation of Coronary Vessels in Cardiac Development and Disease. Cold Spring Harbor Perspectives in Biology, 2020, 12, a037168.	2.3	12
22	Single-cell transcriptomics uncover distinct innate and adaptive cell subsets during tissue homeostasis and regeneration. Journal of Leukocyte Biology, 2020, 108, 1593-1602.	1.5	6
23	Genetic Fate Mapping of Transient Cell Fate Reveals N-Cadherin Activity and Function in Tumor Metastasis. Developmental Cell, 2020, 54, 593-607.e5.	3.1	70
24	An emerging role of regulatory T-cells in cardiovascular repair and regeneration. Theranostics, 2020, 10, 8924-8938.	4.6	25
25	Single-Cell RNA-Seq Reveals that CD9 Is a Negative Marker of Glucose-Responsive Pancreatic Î^2-like Cells Derived from Human Pluripotent Stem Cells. Stem Cell Reports, 2020, 15, 1111-1126.	2.3	35
26	Premature Activation of Immune Transcription Programs in Autoimmune-Predisposed Mouse Embryonic Stem Cells and Blastocysts. International Journal of Molecular Sciences, 2020, 21, 5743.	1.8	0
27	A Roadmap for Fixing the Heart: RNA Regulatory Networks in Cardiac Disease. Molecular Therapy - Nucleic Acids, 2020, 20, 673-686.	2.3	17
28	Specific ablation of CD4⁺ T-cells promotes heart regeneration in juvenile mice. Theranostics, 2020, 10, 8018-8035.	4.6	43
29	Generation of a selfâ€cleaved inducible Cre recombinase for efficient temporal genetic manipulation. EMBO Journal, 2020, 39, e102675.	3.5	22
30	The Biology of Cell-free DNA Fragmentation and the Roles of DNASE1, DNASE1L3, and DFFB. American Journal of Human Genetics, 2020, 106, 202-214.	2.6	127
31	Coreceptor blockade targeting CD4 and CD8 allows acceptance of allogeneic human pluripotent stem cell grafts in humanized mice. Biomaterials, 2020, 248, 120013.	5.7	10
32	CD8⁺ T-cell plasticity regulates vascular regeneration in type-2 diabetes. Theranostics, 2020, 10, 4217-4232.	4.6	29
33	Ectopic expression of recipient CD47 inhibits mouse macrophageâ€mediated immune rejection against human stem cell transplants. FASEB Journal, 2019, 33, 484-493.	0.2	17
34	Regulatory T-cells regulate neonatal heart regeneration by potentiating cardiomyocyte proliferation in a paracrine manner. Theranostics, 2019, 9, 4324-4341.	4.6	79
35	Gain-of-Function Mutations of SLC16A11 Contribute to the Pathogenesis of Type 2 Diabetes. Cell Reports, 2019, 26, 884-892.e4.	2.9	21
36	Genetic Tracing Identifies Early Segregation of the Cardiomyocyte and Nonmyocyte Lineages. Circulation Research, 2019, 125, 343-355.	2.0	29

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37	Lineage Tracing Reveals the Bipotency of SOX9+ Hepatocytes during Liver Regeneration. Stem Cell Reports, 2019, 12, 624-638.	2.3	65
38	Vedolizumab-mediated integrin Î±4Î²7 blockade does not control HIV-1SF162 rebound after combination antiretroviral therapy interruption in humanized mice. Aids, 2019, 33, F1-F12.	1.0	10
39	Endocardial Cell Plasticity in Cardiac Development, Diseases and Regeneration. Circulation Research, 2018, 122, 774-789.	2.0	88
40	Genetic Fate Mapping Defines the Vascular Potential of Endocardial Cells in the Adult Heart. Circulation Research, 2018, 122, 984-993.	2.0	65
41	Replenishing the damaged heart with oxygen by nature-inspired photosynthesis. Future Cardiology, 2018, 14, 101-103.	0.5	0
42	Genetic Lineage Tracing of Nonmyocyte Population by Dual Recombinases. Circulation, 2018, 138, 793-805.	1.6	163
43	DNase1 Does Not Appear to Play a Major Role in the Fragmentation of Plasma DNA in a Knockout Mouse Model. Clinical Chemistry, 2018, 64, 406-408.	1.5	34
44	Fate Mapping of Sca1 + Cardiac Progenitor Cells in the Adult Mouse Heart. Circulation, 2018, 138, 2967-2969.	1.6	42
45	Single-cell transcriptomics reveal that PD-1 mediates immune tolerance by regulating proliferation of regulatory T cells. Genome Medicine, 2018, 10, 71.	3.6	30
46	Genetic lineage tracing of resident stem cells by DeaLT. Nature Protocols, 2018, 13, 2217-2246.	5.5	17
47	Deconstructive somatic cell nuclear transfer reveals novel regulatory T-cell subsets. Journal of Allergy and Clinical Immunology, 2018, 142, 997-1000.e4.	1.5	9
48	Regulatory T-Cells: Potential Regulator of Tissue Repair and Regeneration. Frontiers in Immunology, 2018, 9, 585.	2.2	214
49	Reassessing endothelial-to-mesenchymal transition in cardiovascular diseases. Nature Reviews Cardiology, 2018, 15, 445-456.	6.1	179
50	Dual genetic tracing system identifies diverse and dynamic origins of cardiac valve mesenchyme. Development (Cambridge), 2018, 145, .	1.2	35
51	Regulatory T Cells Promote Apelin-Mediated Sprouting Angiogenesis in Type 2 Diabetes. Cell Reports, 2018, 24, 1610-1626.	2.9	60
52	Embryonic senescent cells re-enter cell cycle and contribute to tissues after birth. Cell Research, 2018, 28, 775-778.	5.7	37
53	Deciphering the Role of microRNAs in Regulation of Immune Surveillance, Self-Tolerance and Allograft Transplant Outcome. Current Stem Cell Research and Therapy, 2018, 13, 336-344.	0.6	2
54	Integrative single-cell and cell-free plasma RNA transcriptomics elucidates placental cellular dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E7786-E7795.	3.3	242

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55	Fibroblasts in an endocardial fibroelastosis disease model mainly originate from mesenchymal derivatives of epicardium. Cell Research, 2017, 27, 1157-1177.	5.7	39
56	Individual Variation in Conditional Î² Cell Ablation Mice Contributes Significant Biases in Evaluating Î² Cell Functional Recovery. Frontiers in Endocrinology, 2017, 8, 242.	1.5	2
57	Preexisting endothelial cells mediate cardiac neovascularization after injury. Journal of Clinical Investigation, 2017, 127, 2968-2981.	3.9	146
58	Vascular Development and Regeneration in the Mammalian Heart. Journal of Cardiovascular Development and Disease, 2016, 3, 23.	0.8	4
59	A Self-restricted CRISPR System to Reduce Off-target Effects. Molecular Therapy, 2016, 24, 1508-1510.	3.7	66
60	Mfsd2a+ hepatocytes repopulate the liver during injury and regeneration. Nature Communications, 2016, 7, 13369.	5.8	87
61	Genetic Modification of Human Pancreatic Progenitor Cells Through Modified mRNA. Methods in Molecular Biology, 2016, 1428, 307-317.	0.4	2
62	Genetic lineage tracing identifies in situ Kit-expressing cardiomyocytes. Cell Research, 2016, 26, 119-130.	5.7	122
63	GATA4 regulates Fgf16 to promote heart repair after injury. Development (Cambridge), 2016, 143, 936-49.	1.2	79
64	Endocardium Contributes to Cardiac Fat. Circulation Research, 2016, 118, 254-265.	2.0	42
65	Dickkopf-3, a Tissue-Derived Modulator of Local T-Cell Responses. Frontiers in Immunology, 2015, 6, 78.	2.2	40
66	A Src inhibitor regulates the cell cycle of human pluripotent stem cells and improves directed differentiation. Journal of Cell Biology, 2015, 210, 1257-1268.	2.3	27
67	Synthetic Chemically Modified mRNA (modRNA): Toward a New Technology Platform for Cardiovascular Biology and Medicine. Cold Spring Harbor Perspectives in Medicine, 2015, 5, a014035-a014035.	2.9	45
68	A Src inhibitor regulates the cell cycle of human pluripotent stem cells and improves directed differentiation. Journal of Experimental Medicine, 2015, 212, 21211OIA91.	4.2	1
69	Editorial (Thematic Issue: Advances in Pluripotent Stem Cell-Derived Endothelial Cells: From) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	0.6	0
70	Manipulation of a VEGF-Notch signaling circuit drives formation of functional vascular endothelial progenitors from human pluripotent stem cells. Cell Research, 2014, 24, 820-841.	5.7	81
71	Cardiovascular regenerative therapeutics via synthetic paracrine factor modified mRNA. Stem Cell Research, 2014, 13, 693-704.	0.3	26
72	Tolerance induction to human stem cell transplants with extension to their differentiated progeny. Nature Communications, 2014, 5, 5629.	5.8	26

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73	Reprogramming for cardiac regeneration. Global Cardiology Science & Practice, 2014, 2014, 44.	0.3	4
74	Protein Kinases and Associated Pathways in Pluripotent State and Lineage Differentiation. Current Stem Cell Research and Therapy, 2014, 9, 366-387.	0.6	9
75	VEGF-A: The Inductive Angiogenic Factor for Development, Regeneration and Function of Pancreatic Beta Cells. Current Stem Cell Research and Therapy, 2014, 9, 396-400.	0.6	10
76	Modified mRNA directs the fate of heart progenitor cells and induces vascular regeneration after myocardial infarction. Nature Biotechnology, 2013, 31, 898-907.	9.4	528
77	Driving vascular endothelial cell fate of human multipotent Isl1+ heart progenitors with VEGF modified mRNA. Cell Research, 2013, 23, 1172-1186.	5.7	89
78	Highly efficient derivation of ventricular cardiomyocytes from induced pluripotent stem cells with a distinct epigenetic signature. Cell Research, 2012, 22, 142-154.	5.7	77
79	Human pluripotent stem cell-derived cardiovascular progenitors for heart regeneration. Drug Discovery Today: Disease Models, 2012, 9, e189-e197.	1.2	5
80	Induced pluripotent stem cells as a disease model for studying inherited arrhythmias: promises and hurdles. Drug Discovery Today: Disease Models, 2012, 9, e199-e207.	1.2	5
81	Concise Review: Immune Recognition of Induced Pluripotent Stem Cells. Stem Cells, 2012, 30, 797-803.	1.4	58
82	Pluripotent stem cellâ€based heart regeneration: From the developmental and immunological perspectives. Birth Defects Research Part C: Embryo Today Reviews, 2012, 96, 98-108.	3.6	9
83	Bioengineering Heart Muscle: A Paradigm for Regenerative Medicine. Annual Review of Biomedical Engineering, 2011, 13, 245-267.	5.7	172
84	A Role for Regulatory T Cells in Acceptance of ESC-Derived Tissues Transplanted Across an Major Histocompatibility Complex Barrier Â. Stem Cells, 2010, 28, 1905-1914.	1.4	43
85	Embryonic Stem Cells: Overcoming the Immunological Barriers to Cell Replacement Therapy. Current Stem Cell Research and Therapy, 2009, 4, 70-80.	0.6	57
86	Infectious tolerance via the consumption of essential amino acids and mTOR signaling. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 12055-12060.	3.3	293