Seung K Kim

List of Publications by Year
in descending order

77 papers	10,207 citations	71102 41 h-index	71685 76 g-index
90 all docs	90 docs citations	90 times ranked	14521 citing authors

#	Article	IF	Citations
1	The Human Cell Atlas. ELife, 2017, 6, .	6.0	1,547
2	Ablation of Insulin-Producing Neurons in Flies: Growth and Diabetic Phenotypes. Science, 2002, 296, 1118-1120.	12.6	981
3	Single-Cell Analysis of Human Pancreas Reveals Transcriptional Signatures of Aging and Somatic Mutation Patterns. Cell, 2017, 171, 321-330.e14.	28.9	443
4	Calcineurin/NFAT signalling regulates pancreatic Î²-cell growth and function. Nature, 2006, 443, 345-349.	27.8	397
5	Growth inhibitors promote differentiation of insulin-producing tissue from embryonic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 16105-16110.	7.1	394
6	Conserved mechanisms of glucose sensing and regulation by Drosophila corpora cardiaca cells. Nature, 2004, 431, 316-320.	27.8	379
7	Menin regulates pancreatic islet growth by promoting histone methylation and expression of genes encoding p27 <i> ^{Kip1} </i> and p18 <i> ^{INK4c} </i>. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14659-14664.	7.1	377
8	Polycomb protein Ezh2 regulates pancreatic Î²-cell <i>Ink4a/Arf</i> expression and regeneration in diabetes mellitus. Genes and Development, 2009, 23, 975-985.	5.9	332
9	Menin Controls Growth of Pancreatic ÃŸ-Cells in Pregnant Mice and Promotes Gestational Diabetes Mellitus. Science, 2007, 318, 806-809.	12.6	313
10	Fly Cell Atlas: A single-nucleus transcriptomic atlas of the adult fruit fly. Science, 2022, 375, eabk2432.	12.6	295
11	PDGF signalling controls age-dependent proliferation in pancreatic Î²-cells. Nature, 2011, 478, 349-355.	27.8	241
12	Glucose Infusion in Mice: A New Model to Induce Â-Cell Replication. Diabetes, 2007, 56, 1792-1801.	0.6	236
13	Signaling and transcriptional control of pancreatic organogenesis. Current Opinion in Genetics and Development, 2002, 12, 540-547.	3.3	230
14	Pancreatic cancer modeling using retrograde viral vector delivery and in vivo CRISPR/Cas9-mediated somatic genome editing. Genes and Development, 2015, 29, 1576-1585.	5.9	223
15	Age-Dependent Pancreatic Gene Regulation Reveals Mechanisms Governing Human Î² Cell Function. Cell Metabolism, 2016, 23, 909-920.	16.2	205
16	Human <i>COL7A1</i> -corrected induced pluripotent stem cells for the treatment of recessive dystrophic epidermolysis bullosa. Science Translational Medicine, 2014, 6, 264ra163.	12.4	194
17	Patch-Seq Links Single-Cell Transcriptomes to Human Islet Dysfunction in Diabetes. Cell Metabolism, 2020, 31, 1017-1031.e4.	16.2	177
18	Pbx1 inactivation disrupts pancreas development and in Ipf1-deficient mice promotes diabetes mellitus. Nature Genetics, 2002, 30, 430-435.	21.4	170

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19	Converting Adult Pancreatic Islet Î± Cells into Î² Cells by Targeting Both Dnmt1 and Arx. Cell Metabolism, 2017, 25, 622-634.	16.2	165
20	Conserved markers of fetal pancreatic epithelium permit prospective isolation of islet progenitor cells by FACS. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 175-180.	7.1	150
21	Gene Regulatory Networks Governing Pancreas Development. Developmental Cell, 2013, 25, 5-13.	7.0	148
22	A p53 Super-tumor Suppressor Reveals a Tumor Suppressive p53-Ptpn14-Yap Axis in Pancreatic Cancer. Cancer Cell, 2017, 32, 460-473.e6.	16.8	142
23	Expansion and conversion of human pancreatic ductal cells into insulin-secreting endocrine cells. ELife, 2013, 2, e00940.	6.0	135
24	A Genetic Strategy to Measure Circulating Drosophila Insulin Reveals Genes Regulating Insulin Production and Secretion. PLoS Genetics, 2014, 10, e1004555.	3.5	132
25	Age-dependent human Î² cell proliferation induced by glucagon-like peptide 1 and calcineurin signaling. Journal of Clinical Investigation, 2017, 127, 3835-3844.	8.2	118
26	Single-Nucleus and In Situ RNAâ€“Sequencing Reveal Cell Topographies in the Human Pancreas. Gastroenterology, 2021, 160, 1330-1344.e11.	1.3	112
27	Suppression of Insulin Production and Secretion by a Decretin Hormone. Cell Metabolism, 2015, 21, 323-334.	16.2	111
28	Neonatal Î² Cell Development in Mice and Humans Is Regulated by Calcineurin/NFAT. Developmental Cell, 2012, 23, 21-34.	7.0	97
29	Gestational Diabetes Mellitus From Inactivation of Prolactin Receptor and MafB in Islet Î²-Cells. Diabetes, 2016, 65, 2331-2341.	0.6	96
30	Using <i>Drosophila</i> to discover mechanisms underlying type 2 diabetes. DMM Disease Models and Mechanisms, 2016, 9, 365-376.	2.4	89
31	Topical hypochlorite ameliorates NF-ÎºBâ€“mediated skin diseases in mice. Journal of Clinical Investigation, 2013, 123, 5361-5370.	8.2	88
32	The ATP-sensitive potassium (KATP) channel-encoded dSUR gene is required for Drosophila heart function and is regulated by tinman. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11999-12004.	7.1	84
33	Control of Cell Density and Pattern by Intercellular Signaling in Myxococcus Development. Annual Review of Microbiology, 1992, 46, 117-139.	7.3	79
34	Deconstructing Pancreas Developmental Biology. Cold Spring Harbor Perspectives in Biology, 2012, 4, a012401-a012401.	5.5	77
35	T cells expressing chimeric antigen receptor promote immune tolerance. JCI Insight, 2017, 2, .	5.0	68
36	Reconstituting pancreas development from purified progenitor cells reveals genes essential for islet differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12691-12696.	7.1	67

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37	Deconstructing Pancreas Development to Reconstruct Human Islets from Pluripotent Stem Cells. Cell Stem Cell, 2010, 6, 300-308.	11.1	59
38	An Integrated Cell Purification and Genomics Strategy Reveals Multiple Regulators of Pancreas Development. PLoS Genetics, 2014, 10, e1004645.	3.5	49
39	Reconstituting development of pancreatic intraepithelial neoplasia from primary human pancreas duct cells. Nature Communications, 2017, 8, 14686.	12.8	47
40	Discovering human diabetes-risk gene function with genetics and physiological assays. Nature Communications, 2018, 9, 3855.	12.8	47
41	Combined modulation of polycomb and trithorax genes rejuvenates ÃŽÂ² cell replication. Journal of Clinical Investigation, 2013, 123, 4849-4858.	8.2	47
42	A fluorescence sandwich immunoassay for the real-time continuous detection of glucose and insulin in live animals. Nature Biomedical Engineering, 2021, 5, 53-63.	22.5	44
43	Discovering signaling mechanisms governing metabolism and metabolic diseases with Drosophila. Cell Metabolism, 2021, 33, 1279-1292.	16.2	43
44	Insight into Insulin Secretion from Transcriptome and Genetic Analysis of Insulin-Producing Cells of <i>Drosophila</i>. Genetics, 2014, 197, 175-192.	2.9	41
45	Novel GATA6 Mutations in Patients with Pancreatic Agenesis and Congenital Heart Malformations. PLoS ONE, 2015, 10, e0118449.	2.5	39
46	Heterogenous impairment of Î± cell function in type 2 diabetes is linked to cell maturation state. Cell Metabolism, 2022, 34, 256-268.e5.	16.2	39
47	A Chromatin Basis for Cell Lineage and Disease Risk in the Human Pancreas. Cell Systems, 2018, 7, 310-322.e4.	6.2	38
48	Menin-mediated Caspase 8 Expression in Suppressing Multiple Endocrine Neoplasia Type 1. Journal of Biological Chemistry, 2007, 282, 31332-31340.	3.4	37
49	Discovery of ciliary G protein-coupled receptors regulating pancreatic islet insulin and glucagon secretion. Genes and Development, 2021, 35, 1243-1255.	5.9	34
50	Pathways to clinical CLARITY: volumetric analysis of irregular, soft, and heterogeneous tissues in development and disease. Scientific Reports, 2017, 7, 5899.	3.3	33
51	Serotonin Regulates Adult Î²-Cell Mass by Stimulating Perinatal Î²-Cell Proliferation. Diabetes, 2020, 69, 205-214.	0.6	33
52	Lactation improves pancreatic Î² cell mass and function through serotonin production. Science Translational Medicine, 2020, 12, .	12.4	33
53	A radial axis defined by Semaphorin to Neuropilin signaling controls pancreatic islet morphogenesis. Development (Cambridge), 2017, 144, 3744-3754.	2.5	29
54	Characterization of Six New Human Embryonic Stem Cell Lines (HSF7, -8, -9, -10, -12, and -13) Derived Under Minimal-Animal Component Conditions. Stem Cells and Development, 2008, 17, 535-546.	2.1	28

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55	A<i>Drosophila</i>LexA Enhancer-Trap Resource for Developmental Biology and Neuroendocrine Research. G3: Genes, Genomes, Genetics, 2016, 6, 3017-3026.	1.8	28
56	Dicer Regulates Differentiation and Viability during Mouse Pancreatic Cancer Initiation. PLoS ONE, 2014, 9, e95486.	2.5	27
57	SIX2 and SIX3 coordinately regulate functional maturity and fate of human pancreatic Î² cells. Genes and Development, 2021, 35, 234-249.	5.9	26
58	CRISPR-based genome editing in primary human pancreatic islet cells. Nature Communications, 2021, 12, 2397.	12.8	26
59	Specification of Drosophila Corpora Cardiaca Neuroendocrine Cells from Mesoderm Is Regulated by Notch Signaling. PLoS Genetics, 2011, 7, e1002241.	3.5	23
60	Molecular and genetic regulation of pig pancreatic islet cell development. Development (Cambridge), 2020, 147, .	2.5	21
61	What is a Î² cell? â€“ Chapter I in the Human Islet Research Network (HIRN) review series. Molecular Metabolism, 2021, 53, 101323.	6.5	20
62	Single-cell transcriptome and accessible chromatin dynamics during endocrine pancreas development. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	20
63	A cellular, molecular, and pharmacological basis for appendage regeneration in mice. Genes and Development, 2015, 29, 2097-2107.	5.9	19
64	In vivo studies of glucagon secretion by human islets transplanted in mice. Nature Metabolism, 2020, 2, 547-557.	11.9	18
65	Pancreatic Pseudoislets: An Organoid Archetype for Metabolism Research. Diabetes, 2021, 70, 1051-1060.	0.6	17
66	Efficient generation of pancreatic Î²-like cells from the mouse gallbladder. Stem Cell Research, 2016, 17, 587-596.	0.7	13
67	An Interscholastic Network To Generate LexA Enhancer Trap Lines in<i>Drosophila</i>. G3: Genes, Genomes, Genetics, 2019, 9, 2097-2106.	1.8	11
68	Cryopreservation and post-thaw characterization of dissociated human islet cells. PLoS ONE, 2022, 17, e0263005.	2.5	11
69	Dissecting Human Gene Functions Regulating Islet Development With Targeted Gene Transduction. Diabetes, 2015, 64, 3037-3049.	0.6	9
70	Modeling Spatial Correlation of Transcripts with Application to Developing Pancreas. Scientific Reports, 2019, 9, 5592.	3.3	7
71	Transgenic <i>Drosophila</i> lines for LexA-dependent gene and growth regulation. G3: Genes, Genomes, Genetics, 2022, 12, .	1.8	7
72	Research Resource: Genetic Labeling of Human Islet Alpha Cells. Molecular Endocrinology, 2016, 30, 248-253.	3.7	6

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73	Dnmt1 activity is dispensable in Î´-cells but is essential for Î±-cell homeostasis. International Journal of Biochemistry and Cell Biology, 2017, 88, 226-235.	2.8	6
74	A LexAopâ€‰>â€‰UASâ€‰>â€‰QUASÂtrimeric plasmid to generate inducible and interconvertible Drosophila overexpression transgenes. Scientific Reports, 2022, 12, 3835.	3.3	6
75	Islet cell replacement and transplantation immunology in a mouse strain with inducible diabetes. Scientific Reports, 2022, 12, .	3.3	2
76	Gut insulin from Foxo1 loss. Nature Genetics, 2012, 44, 363-364.	21.4	0
77	Spheroid Culture of Human Pancreatic Ductal Cells to Reconstitute Development of Pancreatic Intraepithelial Neoplasia. Methods in Molecular Biology, 2019, 1882, 63-71.	0.9	0