Stanford



Seung K. Kim M.D., Ph.D.

KM Mulberry Professor, Professor of Developmental Biology, of Medicine (Endocrinology) and, by courtesy, of Pediatrics (Endocrinology)

CONTACT INFORMATION

- **Alternate Contact**

  Ngan Tefera - Administrative Assistant

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Bio

ACADEMIC APPOINTMENTS

- Professor, Developmental Biology
- Professor, Medicine - Endocrinology, Gerontology, & Metabolism
- Professor (By courtesy), Pediatrics - Endocrinology
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Co-director, Breakthrough T1D Northern California Center of Excellence (Stanford), (2019- present)
- Director, Stanford Diabetes Research Center, (2016- present)
- Director, Stanford MSTP, (2008-2013)
- Associate Director, Stanford Medical Scientist Training Program, (2000-2008)

HONORS AND AWARDS

- AAP, Elected Member, Association of American Physicians (2021)
- JDRF Innovation Award, JDRF, Juvenile Diabetes Research Foundation (2020)
- Faculty Award for Excellence in Mentoring and Service, Office of Graduate Education, Stanford University School of Medicine (2015)
- Ho-Am Prize in Medicine, Ho-Am Foundation (2014)
- Gerald and Kayla Grodsky Basic Science Research Award, Juvenile Diabetes Research Foundation (JDRF) (2013)
- Investigator, Howard Hughes Medical Institute (2008-2016)
- Living and Giving Award, Juvenile Diabetes Research Foundation Northern California Chapter (2004)

- Henry J. Kaiser Family Foundation Award for Excellence in Preclinical Teaching, Stanford University School of Medicine (2002)
- Named Investigator Award, Stanford-NIH Digestive Diseases Center (2000)
- Career Development Award, American Diabetes Association (1999-2003)
- Pew Biomedical Research Scholar, The Pew Charitable Trusts (1999-2003)
- Faculty Scholar Award, Donald E. and Delia B. Baxter Foundation (1999-2001)
- Faculty Scholar Award, SmithKline Beecham-Stanford University School of Medicine (1999-2001)
- Junior Faculty Scholar, Howard Hughes Medical Institute/Stanford University School of Medicine (1999-2001)

PROFESSIONAL EDUCATION

- A.B., Harvard University , Biochemical Sciences (1985)
- M.D., Stanford University , Medicine (1992)
- Ph.D., Stanford University , Biochemistry (1992)

LINKS

- Kim Lab Website: http://seungkimlab.stanford.edu/
- Stanford Diabetes Research Center: https://sdrc.stanford.edu
- Stan-X and Discovery Now: https://www.stan-x.org/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Understanding organ development and achieving functional restoration of diseased organs is a broad goal motivating effort in our group. Pancreatic islets of Langerhans, endocrine organs that secrete insulin and glucagon, have emerged as a paradigm for investigating both organ development and restoration. Deficiency of insulin-producing islet β-cells or their function underlies the pathogenesis of diabetes mellitus, a disease with devastating autoimmune (type 1), pandemic (type 2), and exocrine-associated (type 3c) forms. However, islet replacement, or preservation in diabetes, is ultimately limited by our inadequate understanding of mechanisms controlling islet formation, growth and immunological protection. To discover these mechanisms, my laboratory is using a combination of genetic, developmental, immunological, physiological and genomic approaches in different experimental systems, with a focus on several fundamental questions:

What are the cellular, molecular, signaling and genetic mechanisms regulating pancreatic development and functional maturation?

Can we harness our growing understanding of pancreatic islet development to generate replacement islets for diabetes, including islet cells generated from human stem cell lines?

What are the genetic programs underlying diabetes risk?

What immunological and transplantation paradigms can be developed to protect native or replacement islets in type 1 diabetes?

Can we advance understanding of normal pancreas development and function to discover the basis of devastating exocrine pancreatic diseases, including pancreatic cancer?

To address these challenges, our group has developed new approaches in mice, fruit flies, pigs, primates, primary human pancreatic cells, and multipotent human stem cells. Each of these systems offers different experimental advantages. Discoveries from our systems have created unprecedented opportunities for harnessing knowledge about pancreatic development and growth to restore pancreas islet function, and to identify the molecular, genetic, signaling, and immune basis of pancreatic diseases like diabetes mellitus, pancreatitis and pancreatic cancer.

Teaching

COURSES

2026-27

- Elements of Grant Writing: DBIO 234 (Aut)

2025-26

- Elements of Grant Writing: DBIO 234 (Aut)

2024-25

- Elements of Grant Writing: DBIO 234 (Aut)

2023-24

- Elements of Grant Writing: DBIO 234 (Aut)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Arjun Rajan

Postdoctoral Faculty Sponsor

Christina Gangemi, Hsin Hsien Lin, Martin Neukam, Stephan Ramos, Yuqi Zhou

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (PhD Program)
- Dermatology (Fellowship Program)
- Developmental Biology (PhD Program)
- Endocrinology (Fellowship Program)
- Medicine (Masters Program)
- Neurosciences (PhD Program)
- Oncology (Fellowship Program)

Publications

PUBLICATIONS

- **Improved conditioning for hematopoietic chimerism induces islet tolerance to cure diabetes.** *JCI insight*
  Ramos, S. A., Bhagchandani, P., Burgos, D. M., Gu, X., Rodriguez, R., Nourin, N., Neukam, M., Pathak, S., Shizuru, J., Kim, S. K.
  2026
- **Curing autoimmune diabetes in mice with islet and hematopoietic cell transplantation after CD117 antibody-based conditioning.** *The Journal of clinical investigation*
  Bhagchandani, P., Ramos, S. A., Rodriguez, B., Gu, X., Pathak, S., Zhou, Y., Moon, Y., Nourin, N., Chang, C. A., Poyser, J., Velasco, B. J., Zhao, W., Kwon, et al
  2025

- **Age-Dependent Pancreatic Gene Regulation Reveals Mechanisms Governing Human beta Cell Function** *CELL METABOLISM*
  Arda, H. E., Li, L., Tsai, J., Torre, E. A., Rosli, Y., Peiris, H., Spitale, R. C., Dai, C., Gu, X., Qu, K., Wang, P., Wang, J., Grompe, et al
  2016; 23 (5): 909-920
- **PDGF signalling controls age-dependent proliferation in pancreatic beta-cells** *NATURE*
  Chen, H., Gu, X., Liu, Y., Wang, J., Wirt, S. E., Bottino, R., Schorle, H., Sage, J., Kim, S. K.
  2011; 478 (7369): 349-?
- **Calcineurin/NFAT signalling regulates pancreatic beta-cell growth and function** *NATURE*
  Heit, J. J., Apelqvist, A. A., Gu, X., Winslow, M. M., Neilson, J. R., Crabtree, G. R., Kim, S. K.
  2006; 443 (7109): 345-349
- **Poor Glycemic Status Is Associated With Diabetes Distress After Total Pancreatectomy With Islet Autotransplantation.** *Clinical transplantation*
  Ishola, F. A., Eaton, A., Kim, S., Basina, M., Beilman, G., Bellin, M.
  2026; 40 (5): e70573
- **Isolation of Live Human delta Cells for Genetic and Functional Analysis.** *Molecular metabolism*
  Hang, Y., Miranda, M. A., Yan, Z., Zhao, W., Kim, S. K.
  2025: 102188
- **Stromal KITL/SCF maintains pancreas tissue homeostasis and restrains tumor progression.** *Cancer discovery*
  Oñate, M. K., Oon, C., Bhattacharyya, S., Low, V., Chen, C., Zhao, X., Arnold, F., Yan, Z., Pramod, S., Hang, Y., Ho, Y. J., Lowe, S. W., Kim, et al
  2025
- **Identification of a vimentin-expressing alpha-cell phenotype in CF and normal pancreas.** *The Journal of endocrinology*
  Kattner, N., Hang, Y., Krentz, N. A., Russell, L. A., Palmer, M., Flaxman, C., Plett, N., Coulthard, R., Al-Selwi, Y., Dyson, N., Honkanen-Scott, M., Kim, S., Tiniakos, et al
  2025
- **CD39 delineates chimeric antigen receptor regulatory T cell subsets with distinct cytotoxic & regulatory functions against human islets** *FRONTIERS IN IMMUNOLOGY*
  Wu, X., Chen, P., Whitener, R. L., MacDougall, M. S., Coykendall, V. M. N., Yan, H., Kim, Y., Harper, W., Pathak, S., Iliopoulou, B. P., Hestor, A., Saunders, D. C., Spears, et al
  2024; 15: 1415102
- **An organism-wide atlas of hormonal signaling based on the mouse lemur single-cell transcriptome.** *Nature communications*
  Liu, S., Ezran, C., Wang, M. F., Li, Z., Awayan, K., Long, J. Z., De Vlaminck, I., Wang, S., Epelbaum, J., Kuo, C. S., Terrien, J., Krasnow, M. A., Ferrell, et al
  2024; 15 (1): 2188
- **Multiplexed CRISPR gene editing in primary human islet cells with Cas9 ribonucleoprotein.** *iScience*
  Bevacqua, R. J., Zhao, W., Merheb, E., Kim, S. H., Marson, A., Gloyn, A. L., Kim, S. K.
  2024; 27 (1): 108693
- **RFX6 maintains gene expression and function of adult human islet α cells.** *Diabetes*
  Coykendall, V. M., Qian, M. F., Tellez, K., Bautista, A., Bevacqua, R. J., Gu, X., Hang, Y., Neukam, M., Zhao, W., Chang, C., MacDonald, P. E., Kim, S. K.
  2023
- **Simplified homology-assisted CRISPR for gene editing in Drosophila.** *G3 (Bethesda, Md.)*
  Rankin, A. E., Fox, E., Chisholm, T., Lantz, N., Rajan, A., Phillips, W., Griffin, E., Harper, J., Suhr, C., Tan, M., Wang, J., Yang, A., Kim, et al
  2023
- **HNF1α maintains pancreatic α and β cell functions in primary human islets.** *JCI insight*
  Qian, M. F., Bevacqua, R. J., Coykendall, V. M., Liu, X., Zhao, W., Chang, C. A., Gu, X., Dai, X. Q., MacDonald, P. E., Kim, S. K.
  2023
- **Generation of LexA enhancer-trap lines in Drosophila by an international scholastic network.** *G3 (Bethesda, Md.)*
  Kim, E. S., Rajan, A., Chang, K., Govindarajan, S., Gulick, C., English, E., Rodriguez, B., Bloomfield, O., Nakada, S., Beard, C., O'Connor, S., Mastroianni, S., Downey, et al

2023

- **Integrating genetics with single-cell multiomic measurements across disease states identifies mechanisms of beta cell dysfunction in type 2 diabetes.** *Nature genetics*
  Wang, G., Chiou, J., Zeng, C., Miller, M., Matta, I., Han, J. Y., Kadakia, N., Okino, M., Beebe, E., Mallick, M., Camunas-Soler, J., Dos Santos, T., Dai, et al
  2023

- **Multifaceted role for p53 in pancreatic cancer suppression.** *Proceedings of the National Academy of Sciences of the United States of America*
  Mello, S. S., Flowers, B. M., Mazur, P. K., Lee, J. J., Müller, F., Denny, S. K., Ferreira, S., Hanson, K., Kim, S. K., Greenleaf, W. J., Wood, L. D., Attardi, L. D.
  2023; 120 (10): e2211937120

- **A genetic strategy to measure insulin signaling regulation and physiology in Drosophila.** *PLoS genetics*
  Tsao, D. D., Chang, K. R., Kockel, L., Park, S., Kim, S. K.
  2023; 19 (2): e1010619

- **A genome-wide CRISPR screen identifies CALCOCO2 as a regulator of beta cell function influencing type 2 diabetes risk.** *Nature genetics*
  Rottner, A. K., Ye, Y., Navarro-Guerrero, E., Rajesh, V., Pollner, A., Bevacqua, R. J., Yang, J., Spigelman, A. F., Baronio, R., Bautista, A., Thomsen, S. K., Lyon, J., Nawaz, et al
  2022

- **Curative islet and hematopoietic cell transplantation in diabetic mice without toxic bone marrow conditioning.** *Cell reports*
  Chang, C. A., Bhagchandani, P., Poyser, J., Velasco, B. J., Zhao, W., Kwon, H., Meyer, E., Shizuru, J. A., Kim, S. K.
  2022; 41 (6): 111615

- **Single-cell transcriptome and accessible chromatin dynamics during endocrine pancreas development.** *Proceedings of the National Academy of Sciences of the United States of America*
  Duvall, E., Benitez, C. M., Tellez, K., Enge, M., Pauerstein, P. T., Li, L., Baek, S., Quake, S. R., Smith, J. P., Sheffield, N. C., Kim, S. K., Arda, H. E.
  2022; 119 (26): e2201267119

- **Islet cell replacement and transplantation immunology in a mouse strain with inducible diabetes.** *Scientific reports*
  Bhagchandani, P., Chang, C. A., Zhao, W., Ghila, L., Herrera, P. L., Chera, S., Kim, S. K.
  2022; 12 (1): 9033

- **The Tabula Sapiens: A multiple-organ, single-cell transcriptomic atlas of humans.** *Science (New York, N.Y.)*
  Jones, R. C., Karkanias, J., Krasnow, M. A., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaup, B., Brown, P., Harper, W., Hemenez, M., Ponnusamy, R., Salehi, et al
  2022; 376 (6594): eabl4896

- **A LexAop > UAS > QUAS trimeric plasmid to generate inducible and interconvertible Drosophila overexpression transgenes.** *Scientific reports*
  Wendler, F., Park, S., Hill, C., Galasso, A., Chang, K. R., Awan, I., Sudarikova, Y., Bustamante-Sequeiros, M., Liu, S., Sung, E. Y., Aisa-Bonoko, G., Kim, S. K., Baena-Lopez, et al
  2022; 12 (1): 3835

- **Fly Cell Atlas: A single-nucleus transcriptomic atlas of the adult fruit fly.** *Science (New York, N.Y.)*
  Li, H., Janssens, J., De Waegeneer, M., Kolluru, S. S., Davie, K., Gardeux, V., Saelens, W., David, F. P., Brbic, M., Spanier, K., Leskovec, J., McLaughlin, C. N., Xie, et al
  2022; 375 (6584): eabk2432

- **Heterogenous impairment of alpha cell function in type 2 diabetes is linked to cell maturation state.** *Cell metabolism*
  Dai, X., Camunas-Soler, J., Briant, L. J., Dos Santos, T., Spigelman, A. F., Walker, E. M., Arrojo E Drigo, R., Bautista, A., Jones, R. C., Avrahami, D., Lyon, J., Nie, A., Smith, et al
  1800; 34 (2): 256

- **Transgenic Drosophila lines for LexA-dependent gene and growth regulation.** *G3 (Bethesda, Md.)*
  Chang, K. R., Tsao, D. D., Bennett, C., Wang, E., Floyd, J. F., Tay, A. S., Greenwald, E., Kim, E. S., Griffin, C., Morse, E., Chisholm, T., Rankin, A. E., Baena-Lopez, et al
  2022

- **Cryopreservation and post-thaw characterization of dissociated human islet cells.** *PloS one*
  Marquez-Curtis, L. A., Dai, X., Hang, Y., Lam, J. Y., Lyon, J., Manning Fox, J. E., McGann, L. E., MacDonald, P. E., Kim, S. K., Elliott, J. A.
  1800; 17 (1): e0263005
- **Discovery of ciliary G protein-coupled receptors regulating pancreatic islet insulin and glucagon secretion.** *Genes & development*
  Wu, C., Hilgendorf, K. I., Bevacqua, R. J., Hang, Y., Demeter, J., Kim, S. K., Jackson, P. K.
  2021
- **Discovering signaling mechanisms governing metabolism and metabolic diseases with Drosophila.** *Cell metabolism*
  Kim, S. K., Tsao, D. D., Suh, G. S., Miguel-Aliaga, I.
  2021
- **Pancreatic Pseudoislets: An Organoid Archetype for Metabolism Research.** *Diabetes*
  Friedlander, M. S., Nguyen, V. M., Kim, S. K., Bevacqua, R. J.
  2021
- **CRISPR-based genome editing in primary human pancreatic islet cells.** *Nature communications*
  Bevacqua, R. J., Dai, X., Lam, J. Y., Gu, X., Friedlander, M. S., Tellez, K., Miguel-Escalada, I., Bonas-Guarch, S., Atla, G., Zhao, W., Kim, S. H., Dominguez, A. A., Qi, et al
  2021; 12 (1): 2397
- **SIX2 and SIX3 coordinately regulate functional maturity and fate of human pancreatic β cells.** *Genes & development*
  Bevacqua, R. J., Lam, J. Y., Peiris, H. n., Whitener, R. L., Kim, S. n., Gu, X. n., Friedlander, M. S., Kim, S. K.
  2021
- **In vivo studies of glucagon secretion by human islets transplanted in mice.** *Nature metabolism*
  Tellez, K., Hang, Y., Gu, X., Chang, C. A., Stein, R. W., Kim, S. K.
  2020; 2 (6): 547-557
- **Lactation improves pancreatic beta cell mass and function through serotonin production** *SCIENCE TRANSLATIONAL MEDICINE*
  Moon, J., Kim, H., Kim, H., Park, J., Choi, W., Choi, W., Hong, H., Ro, H., Jun, S., Choi, S., Banerjee, R. R., Shong, M., Cho, et al
  2020; 12 (541)
- **Patch-Seq Links Single-Cell Transcriptomes to Human Islet Dysfunction in Diabetes.** *Cell metabolism*
  Camunas-Soler, J., Dai, X., Hang, Y., Bautista, A., Lyon, J., Suzuki, K., Kim, S. K., Quake, S. R., MacDonald, P. E.
  2020
- **Serotonin Regulates Adult beta-Cell Mass by Stimulating Perinatal beta-Cell Proliferation** *DIABETES*
  Moon, J., Kim, Y., Kim, K., Osonoi, S., Wang, S., Saunders, D. C., Wang, J., Yang, K., Kim, H., Lee, J., Jeong, J., Banerjee, R. R., Kim, et al
  2020; 69 (2): 205–14
- **Molecular and genetic regulation of pig pancreatic islet cell development.** *Development (Cambridge, England)*
  Kim, S. n., Whitener, R. L., Peiris, H. n., Gu, X. n., Chang, C. A., Lam, J. Y., Camunas-Soler, J. n., Park, I. n., Bevacqua, R. J., Tellez, K. n., Quake, S. R., Lakey, J. R., Bottino, et al
  2020
- **A single-cell transcriptomic atlas characterizes ageing tissues in the mouse.** *Nature*
  2020
- **Ageing hallmarks exhibit organ-specific temporal signatures.** *Nature*
  Schaum, N. n., Lehallier, B. n., Hahn, O. n., Pálovics, R. n., Hosseinzadeh, S. n., Lee, S. E., Sit, R. n., Lee, D. P., Losada, P. M., Zardeneta, M. E., Fehlmann, T. n., Webber, J. T., McGeever, et al
  2020
- **Single nucleus and in situ RNA sequencing reveals cell topographies in the human pancreas** *Gastroenterology*
  Tosti, L.
  2020: 1330-1344.e11
- **An Interscholastic Network To Generate LexA Enhancer Trap Lines in Drosophila** *G3-GENES GENOMES GENETICS*

Kockel, L., Griffin, C., Ahmed, Y., Fidelak, L., Rajan, A., Gould, E. P., Haigney, M., Ralston, B., Tercek, R. J., Galligani, L., Rao, S., Huq, L., Bhargava, et al
2019; 9 (7): 2097–2106

- **Discovering human diabetes-risk gene function with genetics and physiological assays** *NATURE COMMUNICATIONS*
  Peiris, H., Park, S., Louis, S., Gu, X., Lam, J. Y., Asplund, O., Ippolito, G. C., Bottino, R., Groop, L., Tucker, H., Kim, S. K.
  2018; 9: 3855
- **A Chromatin Basis for Cell Lineage and Disease Risk in the Human Pancreas.** *Cell systems*
  Arda, H. E., Tsai, J., Rosli, Y. R., Giresi, P., Bottino, R., Greenleaf, W. J., Chang, H. Y., Kim, S. K.
  2018
- **The Interface of Pancreatic Cancer With Diabetes, Obesity, and Inflammation: Research Gaps and Opportunities: Summary of a National Institute of Diabetes and Digestive and Kidney Diseases Workshop** *PANCREAS*
  Abbruzzese, J. L., Andersen, D. K., Borrebaeck, C. A. K., Chari, S. T., Costello, E., Cruz-Monserrate, Z., Eibl, G., Engleman, E. G., Fisher, W. E., Habtezion, A., Kim, S. K., Korc, M., Logsdon, et al
  2018; 47 (5): 516–25
- **Single-cell transcriptomics of 20 mouse organs creates a Tabula Muris.** *Nature*
  2018; 562 (7727): 367–72
- **Age-dependent human β cell proliferation induced by glucagon-like peptide 1 and calcineurin signaling.** *The Journal of clinical investigation*
  Dai, C., Hang, Y., Shostak, A., Poffenberger, G., Hart, N., Prasad, N., Phillips, N., Levy, S. E., Greiner, D. L., Shultz, L. D., Bottino, R., Kim, S. K., Powers, et al
  2017; 127 (10): 3835-3844
- **Reconstituting development of pancreatic intraepithelial neoplasia from primary human pancreas duct cells.** *Nature communications*
  Lee, J., Snyder, E. R., Liu, Y., Gu, X., Wang, J., Flowers, B. M., Kim, Y. J., Park, S., Szot, G. L., Hruban, R. H., Longacre, T. A., Kim, S. K.
  2017; 8: 14686-?
- **Converting Adult Pancreatic Islet a Cells into ß Cells by Targeting Both Dnmt1 and Arx.** *Cell metabolism*
  Chakravarthy, H., Gu, X., Enge, M., Dai, X., Wang, Y., Damond, N., Downie, C., Liu, K., Wang, J., Xing, Y., Chera, S., Thorel, F., Quake, et al
  2017
- **Pathways to clinical CLARITY: volumetric analysis of irregular, soft, and heterogeneous tissues in development and disease.** *Scientific reports*
  Hsueh, B. n., Burns, V. M., Pauerstein, P. n., Holzem, K. n., Ye, L. n., Engberg, K. n., Wang, A. C., Gu, X. n., Chakravarthy, H. n., Arda, H. E., Charville, G. n., Vogel, H. n., Efimov, et al
  2017; 7 (1): 5899
- **A p53 Super-tumor Suppressor Reveals a Tumor Suppressive p53-Ptpn14-Yap Axis in Pancreatic Cancer.** *Cancer cell*
  Mello, S. S., Valente, L. J., Raj, N. n., Seoane, J. A., Flowers, B. M., McClendon, J. n., Bieging-Rolett, K. T., Lee, J. n., Ivanochko, D. n., Kozak, M. M., Chang, D. T., Longacre, T. A., Koong, et al
  2017; 32 (4): 460–73.e6
- **T cells expressing chimeric antigen receptor promote immune tolerance.** *JCI insight*
  Pierini, A. n., Iliopoulou, B. P., Peiris, H. n., Pérez-Cruz, M. n., Baker, J. n., Hsu, K. n., Gu, X. n., Zheng, P. P., Erkers, T. n., Tang, S. W., Strober, W. n., Alvarez, M. n., Ring, et al
  2017; 2 (20)
- **A radial axis defined by semaphorin-to-neuropilin signaling controls pancreatic islet morphogenesis.** *Development (Cambridge, England)*
  Pauerstein, P. T., Tellez, K. n., Willmarth, K. B., Park, K. M., Hsueh, B. n., Efsun Arda, H. n., Gu, X. n., Aghajanian, H. n., Deisseroth, K. n., Epstein, J. A., Kim, S. K.
  2017; 144 (20): 3744–54
- **Single-Cell Analysis of Human Pancreas Reveals Transcriptional Signatures of Aging and Somatic Mutation Patterns.** *Cell*
  Enge, M. n., Arda, H. E., Mignardi, M. n., Beausang, J. n., Bottino, R. n., Kim, S. K., Quake, S. R.
  2017; 171 (2): 321–30.e14
- **A Drosophila LexA Enhancer-Trap Resource for Developmental Biology and Neuroendocrine Research.** *G3 (Bethesda, Md.)*

Kockel, L., Huq, L. M., Ayyar, A., Herold, E., MacAlpine, E., Logan, M., Savvides, C., Kim, G. E., Chen, J., Clark, T., Duong, T., Fazel-Rezai, V., Havey, et al
2016; 6 (10): 3017-3026

- **Gestational Diabetes Mellitus From Inactivation of Prolactin Receptor and MafB in Islet ß-Cells.** *Diabetes*
  Banerjee, R. R., Cyphert, H. A., Walker, E. M., Chakravarthy, H., Peiris, H., Gu, X., Liu, Y., Conrad, E., Goodrich, L., Stein, R. W., Kim, S. K.
  2016; 65 (8): 2331-2341
- **iPSCs: 10 Years and Counting.** *Cell*
  2016; 165 (5): 1041-2
- **Using Drosophila to discover mechanisms underlying type 2 diabetes** *DISEASE MODELS & MECHANISMS*
  Alfa, R. W., Kim, S. K.
  2016; 9 (4): 365-376
- **Research Resource: Genetic Labeling of Human Islet Alpha Cells.** *Molecular endocrinology*
  Pauerstein, P. T., Park, K. M., Peiris, H. S., Wang, J., Kim, S. K.
  2016; 30 (2): 248-253
- **Efficient generation of pancreatic β-like cells from the mouse gallbladder.** *Stem cell research*
  Wang, Y. n., Galivo, F. n., Pelz, C. n., Haft, A. n., Lee, J. n., Kim, S. K., Grompe, M. n.
  2016; 17 (3): 587–96
- **A cellular, molecular, and pharmacological basis for appendage regeneration in mice.** *Genes & development*
  Leung, T. H., Snyder, E. R., Liu, Y., Wang, J., Kim, S. K.
  2015; 29 (20): 2097-2107
- **Dissecting Human Gene Functions Regulating Islet Development With Targeted Gene Transduction** *DIABETES*
  Pauerstein, P. T., Sugiyama, T., Stanley, S. E., McLean, G. W., Wang, J., Martin, M. G., Kim, S. K.
  2015; 64 (8): 3037-3049
- **Pancreatic cancer modeling using retrograde viral vector delivery and in vivo CRISPR/Cas9-mediated somatic genome editing** *GENES & DEVELOPMENT*
  Chiou, S., Winters, I. P., Wang, J., Naranjo, S., Dudgeon, C., Tamburini, F. B., Brady, J. J., Yang, D., Gruener, B. M., Chuang, C., Caswell, D. R., Zeng, H., Chu, et al
  2015; 29 (14): 1576-1585
- **Suppression of insulin production and secretion by a decretin hormone.** *Cell metabolism*
  Alfa, R. W., Park, S., Skelly, K., Poffenberger, G., Jain, N., Gu, X., Kockel, L., Wang, J., Liu, Y., Powers, A. C., Kim, S. K.
  2015; 21 (2): 323-333
- **Novel GATA6 mutations in patients with pancreatic agenesis and congenital heart malformations.** *PloS one*
  Chao, C. S., McKnight, K. D., Cox, K. L., Chang, A. L., Kim, S. K., Feldman, B. J.
  2015; 10 (2)
- **Human COL7A1-corrected induced pluripotent stem cells for the treatment of recessive dystrophic epidermolysis bullosa.** *Science translational medicine*
  Sebastiano, V., Zhen, H. H., Haddad, B., Bashkirova, E., Melo, S. P., Wang, P., Leung, T. L., Siprashvili, Z., Tichy, A., Li, J., Ameen, M., Hawkins, J., Lee, et al
  2014; 6 (264): 264ra163-?
- **An integrated cell purification and genomics strategy reveals multiple regulators of pancreas development.** *PLoS genetics*
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