

Date	Name (First)	Name (Last)	Supervisor Name	Title of Paper or Work In Progress	PMID
2024-10-29	<b>Ekaterina</b>	Filatov	Francis Lynn	<i>IER3IP1 mutations cause neonatal diabetes due to impaired proinsulin trafficking</i>	39441964
2024-11-19	<b>Makenna</b>	Cameron	William Gibson and Daniel Gamu	<i>Fired up Fat: Role of the Lysine Acetyltransferases CBP and p300 in Brown Fat Homeostasis and Function</i>	
2024-10-31	<b>Elyn</b>	Rowe	Dr. James Johnson	<i>Mapping biological influences on the human plasma proteome beyond the genome</i>	39327534
2024-10-24	<b>Puja</b>	Biswas	Elizabeth Rideout	<i>Role of insulin signaling and gut hormones in sex-differences in Drosophila fat storage</i>	
2024-10-22	<b>Sonya</b>	Mangat	Levings	<i>TYK2 signaling promotes the development of autoreactive CD8+ cytotoxic T lymphocytes and type 1 diabetes</i>	38351043
2024-10-17	<b>Mikky</b>	Atser	Dr. James Johnson	<i>Specific activation of the integrated stress response uncovers regulation of central carbon metabolism and lipid droplet biogenesis</i>	39333061
2024-10-01	<b>Jana</b>	Thistle	Dan Luciani	<i>Stress-induced <math>\beta</math> cell early senescence confers protection against type 1 diabetes</i>	37949065
2024-09-24	<b>Samantha</b>	Mar	Francis Lynn	<i>Regulated and adaptive in vivo insulin secretion from islets only containing <math>\beta</math>-cells</i>	39169271
2024-09-19	<b>Sing-Young</b>	Chen	Jim Johnson and Liz Rideout	<i>Sex-dependent intra-islet structural rearrangements affecting alpha-to-beta cell interactions lead to adaptive enhancements of Ca2+ dynamics in prediabetic beta cells</i>	38814444
2024-06-18	<b>Dahai</b>	Zhang	Francis Lynn	<i>Impaired islet function and normal exocrine enzyme secretion occur with low inter-regional variation in type 1 diabetes</i>	38850534
2024-06-06	<b>Howard</b>	Cen	Jim Johnson	<i>Purification of time-resolved insulin granules reveals proteomic and lipidomic changes during granule aging</i>	38421874
2024-05-30	<b>Mikky</b>	Atser	Dr. James Johnson	<i>MCL-1 is a master regulator of cancer dependency on fatty acid oxidation</i>	36198266
2024-05-28	<b>Katarina</b>	Zosel	Francis Lynn	<i>Hypoxia causes pancreatic <math>\beta</math>-cell dysfunction and impairs insulin secretion by activating the transcriptional repressor BHLHE40</i>	37341148
2024-05-23	<b>Jeffrey</b>	Lin	Janel Kopp	<i>Investigating the role of hyperinsulinemia in pancreatic cancer progression</i>	
2024-05-14	<b>Wayne</b>	Fan	Francis Lynn	<i>Remodeling ceramide homeostasis promotes functional maturation of human pluripotent stem cell-derived <math>\beta</math> cells</i>	38697109
2024-05-09	<b>Liam</b>	Hall	Jim Johnson	<i>Osteocalcin protects islet identity in low-density lipoprotein receptor knockout mice on high-fat diet</i>	38305305
2024-05-07	<b>Yi-Chun</b>	Chen	Dr. Bruce Verchere	<i>Deficiency of peptidylglycine alpha-amidating monooxygenase in pancreatic beta cells does not lead to development of hyperglycemia and diabetes in mice</i>	
2024-04-30	<b>Rana</b>	Minab	Bruce Verchere	<i>Fecal microbiome transplantation and type 1 diabetes</i>	
2024-05-02	<b>Elyn</b>	Rowe	Jim Johnson	<i>Platelet-derived lipids promote insulin secretion of pancreatic <math>\beta</math> cells</i>	37490001
2024-04-25	<b>Alexander</b>	Garner	Timothy Kieffer and Francis Lynn	<i>Illuminating the complete <math>\beta</math>-cell mass of the human pancreas- signifying a new view on the islets of Langerhans</i>	38632302
2024-04-23	<b>Vriti</b>	Bhagat	Dr. Bruce Verchere	<i>Investigating Pct1/3 levels in NOD mice prior to disease onset</i>	
2024-04-18	<b>Evgeniy</b>	Panzhinskiy	James D Johnson	<i>Proteome Mapping of the Human Pancreatic Islet Microenvironment Reveals Endocrine–Exocrine Signaling Sphere of Influence</i>	37328065
2024-04-16	<b>Lindsay</b>	Pallo	Bruce Verchere	<i>Using an mRNA vaccine to reduce spontaneous and recurrent autoimmunity in NOD mice</i>	
2024-04-11	<b>Aurora</b>	Mattison	Jim Johnson	<i>Vitamin K-dependent carboxylation regulates calcium flux and adaptation to metabolic stress in <math>\beta</math> cells</i>	37171959
2024-04-04	<b>Carling</b>	Smith	Dr. Elizabeth Rideout	<i>Molecular mechanism responsible for sex differences in electrical activity of mouse pancreatic <math>\beta</math> cells</i>	38358819
2024-03-26	<b>Lauar</b>	de Brito Monteiro	Verchere & Klein Geltink	<i>CXCL12-CXCR4 mediates CD57+ CD8+ T cell responses in the progression of type 1 diabetes</i>	38306953
2024-03-21	<b>Hayley</b>	Reeves	Elizabeth Rideout	<i>Investigating the Role of 17-Beta Estradiol in the Regulation of the Unfolded Protein Response (UPR) in Pancreatic Beta Cells</i>	38339098
2024-03-19	<b>Erin</b>	Tanaka	Ramon Klein Geltink	<i>High-resolution glucose tracing and in situ imaging reveals regulated lactate1 production in human pancreatic <math>\beta</math> cells</i>	
2024-03-12	<b>Jane</b>	Velghe	Dr. Bruce Verchere	<i>Identification of type 2 diabetes- and obesity-associated human <math>\beta</math>-cells using deep transfer learning</i>	
2024-03-05	<b>Daniel</b>	Pasula	Dan Luciani	<i>Therapeutic targeting of cellular senescence in diabetic macular edema: preclinical and phase 1 trial results</i>	38321220
2024-03-07	<b>Jamie</b>	Chu	James Johnson	<i>Repression of latent NF-<math>\kappa</math>B enhancers by PDX1 regulates <math>\beta</math> cell functional heterogeneity</i>	38171340
2024-02-22	<b>Puja</b>	Biswas	Elizabeth Rideout	<i>Personalized Molecular Signatures of Insulin Resistance and Type 2 Diabetes</i>	
2024-02-20	<b>Noa</b>	Gang	Jenny Bruin	<i>Readily releasable <math>\beta</math> cells with tight Ca2+–exocytosis coupling dictate biphasic glucose-stimulated insulin secretion</i>	38278946
2024-02-13	<b>Bruno Felipe</b>	Freitas	Levings and Verchere	<i>Macrophages heterogeneity and significance during human fetal pancreatic development</i>	
2024-02-06	<b>Carmen</b>	Bayly	Francis Lynn	<i>Sox9 regulates alternative splicing and pancreatic beta cell function</i>	38238288
2024-02-08	<b>Jelena</b>	Kolic	Jim Johnson	<i>Lysophosphatidylinositols Are Upregulated After Human <math>\beta</math>-Cell Loss and Potentiate Insulin Release</i>	
2024-02-01	<b>Sing-Young</b>	Chen	Johnson/Rideout	<i>Sustained hyperglycemia specifically targets translation of mRNAs for insulin secretion</i>	38032734
2024-01-30	<b>Makenna</b>	Cameron	William Gibson and Daniel Gamu	<i>Transplantation of beige adipose organoids fabricated using adipose acellular matrix hydrogel improves metabolic dysfunction in high-fat diet-induced obesity and type 2 dia</i>	38219044
2024-01-23	<b>Raelyn</b>	Gallant	Dr. Bruce Verchere	<i>GPR92 activation in islet macrophages controls <math>\beta</math> cell function in a diet-induced obesity model</i>	10.1172/JCI160097
2024-01-18	<b>Howard</b>	Cen	James Johnson	<i>An integrated single cell and spatial transcriptomic map of human white adipose tissue</i>	36922516