Mercodia

Mercodia Glucagon ELISA

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Bibliography

2016 - 2021

2021

1. Nakamura, Yuta et al. “A single-arm, open-label, intervention study to investigate the improvement of glucose tolerance after administration of the 5-aminolevulinic acid (5-ALA) in the patients with mitochondrial diabetes mellitus.” Medicine vol. 100,10 (2021): e25100. https://doi.org/10.1097/md.0000000000025100

2. Meessen, Emma C E et al. “Parenteral nutrition impairs plasma bile acid and gut hormone responses to mixed meal testing in lean healthy men.” Clinical nutrition (Edinburgh, Scotland) vol. 40,3 (2021): **1013**-1021. https://doi.org/10.1016/j.clnu.2020.06.032

3. McGaugh, Sarah M et al. “Carbohydrate Requirements for Prolonged, Fasted Exercise With and Without Basal Rate Reductions in Adults With Type 1 Diabetes on Continuous Subcutaneous Insulin Infusion.” Diabetes care vol. 44,2 (2021): 610-613. https://doi.org/10.2337/dc20-1554

4. Morettini, Micaela et al. “Mathematical Model of Glucagon Kinetics for the Assessment of Insulin-Mediated Glucagon Inhibition During an Oral Glucose Tolerance Test.” Frontiers in endocrinology vol. 12 611147. 22 Mar. 2021, https://doi.org/10.3389/fendo.2021.611147

5. Shigeno, Riyoko et al. “Bihormonal dysregulation of insulin and glucagon contributes to glucose intolerance development at one year post-delivery in women with gestational diabetes: a prospective cohort study using an early postpartum 75-g glucose tolerance test.” Endocrine journal vol. 68,8 (2021): 919-931. https://doi.org/10.1507/endocrj.ej20-0795

6. Picard, Alexandre et al. “Fgf15 Neurons of the Dorsomedial Hypothalamus Control Glucagon Secretion and Hepatic Gluconeogenesis.” Diabetes vol. 70,7 (2021): 1443-1457. https://doi.org/10.2337/db20-1121

7. Rahim, Mohsin et al. “Multitissue 2H/13C flux analysis reveals reciprocal upregulation of renal gluconeogenesis in hepatic PEPCK-C-knockout mice.” JCI insight vol. 6,12 e149278. 22 Jun. 2021, https://doi.org/10.1172/jci.insight.149278

8. Watanabe, Hirotaka et al. “Acute effects of whole body vibration exercise on post-load glucose metabolism in healthy men: a pilot randomized crossover trial.” Endocrine, 1–8. 2 Oct. 2021, https://doi.org/10.1007/s12020-021-02893-w

9. Kahn, Steven E et al. “Hyperglucagonemia Does Not Explain the β-Cell Hyperresponsiveness and Insulin Resistance in Dysglycemic Youth Compared With Adults: Lessons From the RISE Study.” Diabetes care vol. 44,9 (2021): 1961-1969. https://doi.org/10.2337/dc21-0460

10. Richter, Michael M, and Peter Plomgaard. “The Regulation of Circulating Hepatokines by Fructose Ingestion in Humans.” Journal of the Endocrine Society vol. 5,9 bvab121. 2 Jul. 2021, https://doi.org/10.1210/jendso/bvab121

11. Ron, Idit et al. “The adipokine FABP4 is a key regulator of neonatal glucose homeostasis.” JCI insight vol. 6,20 e138288. 22 Oct. 2021, https://doi.org/10.1172/jci.insight.138288

12. Sklyanik, Igor A et al. “Prognostic factors for the carbohydrate metabolism normalization in patients with type 2 diabetes mellitus and obesity using liraglutide 3.0 mg per day” Terapevticheskii arkhiv. - 2021. - Vol. 93. - N. 10. - P. 1203-1208. https://doi.org/10.26442/00403660.2021.10.201070

13. Morrison, Christopher D et al. “Leptin receptor signaling is required for intact hypoglycemic counterregulation: A study in male Zucker rats.” Journal of diabetes and its complications vol. 35,10 (2021): 107994. https://doi.org/10.1016/j.jdiacomp.2021.107994

14. Yabe, Shigeharu G et al. “Efficient induction of pancreatic alpha cells from human induced pluripotent stem cells by controlling the timing for BMP antagonism and activation of retinoic acid signaling.” PloS one vol. 16,1 e0245204. 11 Jan. 2021, https://doi.org/10.1371/journal.pone.0245204

15. Yoshiji, Satoshi et al. “First Japanese Family with PDX1-MODY (MODY4): A Novel PDX1 Frameshift Mutation, Clinical Characteristics, and Implications” Journal of the Endocrine Society, 2021;, bvab159, https://doi.org/10.1210/jendso/bvab159

16. Bortolasci, Chiara C et al. “Baseline serum amino acid levels predict treatment response to augmentation with N-acetylcysteine (NAC) in a bipolar disorder randomised trial.” Journal of psychiatric research vol. 142 (2021): 376-383. https://doi.org/10.1016/j.jpsychires.2021.08.034

17. Vega, Rick B et al. “A Metabolomic Signature of Glucagon Action in Healthy Individuals With Overweight/Obesity.” Journal of the Endocrine Society vol. 5,9 bvab118. 25 Jun. 2021, https://doi.org/10.1210/jendso/bvab118

18. Zhu, Xingyun et al. “SGLT2i increased the plasma fasting glucagon level in patients with diabetes: A meta-analysis.” European journal of pharmacology vol. 903 (2021): 174145. https://doi.org/10.1016/j.ejphar.2021.174145

19. Almby, Kristina E et al. “Effects of Gastric Bypass Surgery on the Brain: Simultaneous Assessment of Glucose Uptake, Blood Flow, Neural Activity, and Cognitive Function During Normo- and Hypoglycemia.” Diabetes vol. 70,6 (2021): 1265-1277. https://doi.org/10.2337/db20-1172

20. Wang, Zhongying et al. “Live-cell imaging of glucose-induced metabolic coupling of β and α cell metabolism in health and type 2 diabetes.” Communications biology vol. 4,1 594. 19 May. 2021, https://doi.org/10.1038/s42003-021-02113-1

21. Gumus Balikcioglu, Pinar et al. “Branched-Chain Amino Acid Catabolism and Cardiopulmonary Function Following Acute Maximal Exercise Testing in Adolescents.” Frontiers in cardiovascular medicine vol. 8 721354. 18 Aug. 2021, https://doi.org/10.3389/fcvm.2021.721354

22. Kuwata, Hitoshi et al. “Effects of glucagon-like peptide-1 receptor agonists on secretions of insulin and glucagon and gastric emptying in Japanese individuals with type 2 diabetes: A prospective, observational study.” Journal of diabetes investigation, 10.1111/jdi.13598. 22 May. 2021, https://doi.org/10.1111/jdi.13598

23. Smedegaard, Stine B et al. “β-Lactoglobulin Elevates Insulin and Glucagon Concentrations Compared with Whey Protein-A Randomized Double-Blinded Crossover Trial in Patients with Type Two Diabetes Mellitus.” Nutrients vol. 13,2 308. 22 Jan. 2021, https://doi.org/10.3390/nu13020308

24. Martine G E, Knol et al. “The association of glucagon with disease severity and progression in patients with autosomal dominant polycystic kidney disease: an observational cohort study”, Clinical Kidney Journal, 2021; sfab112, https://doi.org/10.1093/ckj/sfab112

25. Kumpatla, Satyavani et al. “Hyperglucagonemia and impaired insulin sensitivity are associated with development of prediabetes and type 2 diabetes - A study from South India.” Diabetes & metabolic syndrome vol. 15,4 (2021): 102199. https://doi.org/10.1016/j.dsx.2021.102199

26. Trinh, Beckey et al. “Blocking endogenous IL-6 impairs mobilization of free fatty acids during rest and exercise in lean and obese men.” Cell reports. Medicine vol. 2,9 100396. 9 Sep. 2021, https://doi.org/10.1016/j.xcrm.2021.100396

27. Nakamura, Yuta et al. “Study of glucagon response and its association with glycemic control and variability after administration of ipragliflozin as an adjunctive to insulin treatment in patients with type 1 diabetes”, Medicine Case Reports and Study Protocols: September 2021 - Volume 2 - Issue 9 - p e0135. doi: 10.1097/MD9.0000000000000135

28. Whytock, Katie L et al. “Prolonged Glucagon Infusion Does Not Affect Energy Expenditure in Individuals with Overweight/Obesity: A Randomized Trial.” Obesity (Silver Spring, Md.) vol. 29,6 (2021): 1003-1013. https://doi.org/10.1002/oby.23371

29. Borgmann, Diba et al. “Gut-brain communication by distinct sensory neurons differently controls feeding and glucose metabolism.” Cell metabolism vol. 33,7 (2021): 1466-1482.e7. https://doi.org/10.1016/j.cmet.2021.05.002

30. Yoshizawa, Yuta et al. “Effects of the Once-Weekly DPP4 Inhibitor Omarigliptin on Glycemic Control in Patients with Type 2 Diabetes Mellitus on Maintenance Hemodialysis: A 24-Week Open-Label, Multicenter Randomized Controlled Study.” Diabetes therapy : research, treatment and education of diabetes and related disorders vol. 12,3 (2021): 655-667. https://doi.org/10.1007/s13300-020-00991-y

31. Stagg, David B et al. “Diminished ketone interconversion, hepatic TCA cycle flux, and glucose production in D-β-hydroxybutyrate dehydrogenase hepatocyte-deficient mice.” Molecular metabolism vol. 53 (2021): 101269. https://doi.org/10.1016/j.molmet.2021.101269

32. Hummel, Julia et al. “Free fatty acids, glicentin and glucose-dependent insulinotropic polypeptide as potential major determinants of fasting substrate oxidation.” Scientific reports vol. 11,1 16642. 17 Aug. 2021, https://doi.org/10.1038/s41598-021-95750-9

33. Kosuda, Minami et al. “Glucagon responses to glucose challenge in patients with idiopathic postprandial syndrome.” Journal of Nippon Medical School = Nippon Ika Daigaku zasshi, 10.1272/jnms.JNMS.2022_89-205. 14 Sep. 2021, https://doi.org/10.1272/jnms.jnms.2022_89-205

34. Okura, Tsuyoshi et al.” The Effect of Sodium-Glucose Cotransporter 2 Inhibitor Ipragliflozin on Insulin Resistance, Hepatic Insulin Clearance, Beta-Cell Function in the Japanese Patients with type 2 Diabetes.” Research Square; 2021. https://doi.org/10.21203/rs.3.rs-882630/v1

35. Zhang, Yulin et al. “Glucagon Potentiates Insulin Secretion Via β-Cell GCGR at Physiological Concentrations of Glucose.” Cells vol. 10,9 2495. 21 Sep. 2021, https://doi.org/10.3390/cells10092495

36. Bevacqua, Romina J et al. “CRISPR-based genome editing in primary human pancreatic islet cells.” Nature communications vol. 12,1 2397. 23 Apr. 2021, https://doi.org/10.1038/s41467-021-22651-w

37. Farré-Segura, Jordi et al. “Development and validation of a fast and reliable method for the quantification of glucagon by liquid chromatography and tandem mass spectrometry.” Clinica chimica acta; international journal of clinical chemistry vol. 512 (2021): 156-165. https://doi.org/10.1016/j.cca.2020.11.004

2020

38. Takahara, Mitsuyoshi et al. “Effect of tasteless calorie-free gum chewing before meal on postprandial plasma glucose, insulin, glucagon, and gastrointestinal hormones in Japanese men without diagnosed glucose metabolism disorder: a pilot randomized crossover trial.” Diabetology international vol. 11,4 394-402. 11 Apr. 2020, https://doi.org/10.1007/s13340-020-00435-9

39. Horie, Ichiro et al. “Impaired early-phase suppression of glucagon secretion after glucose load is associated with insulin requirement during pregnancy in gestational diabetes.” Journal of diabetes investigation vol. 11,1 (2020): 232-240. https://doi.org/10.1111/jdi.13096

40. Eriksson, Olof et al. “Receptor occupancy of dual glucagon-like peptide 1/glucagon receptor agonist SAR425899 in individuals with type 2 diabetes.” Scientific reports vol. 10,1 16758. 7 Oct. 2020, https://doi.org/10.1038/s41598-020-73815-5

41. Alexiadou, Kleopatra et al. “Proglucagon peptide secretion profiles in type 2 diabetes before and after bariatric surgery: 1-year prospective study.” BMJ open diabetes research & care vol. 8,1 (2020): e001076. https://doi.org/10.1136/bmjdrc-2019-001076

42. Gar, Christina et al. “The liver-alpha cell axis associates with liver fat and insulin resistance: a validation study in women with non-steatotic liver fat levels.” Diabetologia vol. 64,3 (2021): 512-520. https://doi.org/10.1007/s00125-020-05334-x

2019

43. Jorsal, Tina et al. “Investigating Intestinal Glucagon After Roux-en-Y Gastric Bypass Surgery.” The Journal of clinical endocrinology and metabolism vol. 104,12 (2019): 6403-6416. https://doi.org/10.1210/jc.2019-00062

44. Yabe, Shigeharu G et al. “Induction of functional islet-like cells from human iPS cells by suspension culture.” Regenerative therapy vol. 10 69-76. 2 Jan. 2019, https://doi.org/10.1016/j.reth.2018.11.003

45. Yabe, Daisuke et al. “Dietary instructions focusing on meal-sequence and nutritional balance for prediabetes subjects: An exploratory, cluster-randomized, prospective, open-label, clinical trial.” Journal of diabetes and its complications vol. 33,12 (2019): 107450. https://doi.org/10.1016/j.jdiacomp.2019.107450

46. Noda, Tomoho et al. “Concurrent Use of Teneligliptin and Canagliflozin Improves Glycemic Control with Beneficial Effects on Plasma Glucagon and Glucagon-Like Peptide-1: A Single-Arm Study.” Diabetes therapy : research, treatment and education of diabetes and related disorders vol. 10,5 (2019): 1835-1846. https://doi.org/10.1007/s13300-019-0666-7

47. Liu, Weixiang et al. “Whole blueberry protects pancreatic beta-cells in diet-induced obese mouse.” Nutrition & metabolism vol. 16 34. 22 May. 2019, https://doi.org/10.1186/s12986-019-0363-6

48. Inoue, Megumi et al. “Effect of Once-Weekly Dulaglutide on Glucose Levels in Japanese Patients with Type 2 Diabetes: Findings from a Phase 4, Randomized Controlled Trial.” Diabetes therapy : research, treatment and education of diabetes and related disorders vol. 10,3 (2019): 1019-1027. https://doi.org/10.1007/s13300-019-0605-7

49. Behary, Preeshila et al. “Combined GLP-1, Oxyntomodulin, and Peptide YY Improves Body Weight and Glycemia in Obesity and Prediabetes/Type 2 Diabetes: A Randomized, Single-Blinded, Placebo-Controlled Study.” Diabetes care vol. 42,8 (2019): 1446-1453. https://doi.org/10.2337/dc19-0449

50. Bru-Tari, Eva et al. “Pancreatic alpha-cell mass in the early-onset and advanced stage of a mouse model of experimental autoimmune diabetes.” Scientific reports vol. 9,1 9515. 2 Jul. 2019, https://doi.org/10.1038/s41598-019-45853-1

51. Jensen, Charlotte H et al. “The imprinted gene Delta like non-canonical notch ligand 1 (Dlk1) associates with obesity and triggers insulin resistance through inhibition of skeletal muscle

glucose uptake." EBioMedicine vol. 46 (2019): 368-380. https://doi.org/10.1016/j.ebiom.2019.07.070

52. Grevengoed, Trisha J et al. "N-acyl taurines are endogenous lipid messengers that improve glucose homeostasis." Proceedings of the National Academy of Sciences of the United States of America vol. 116,49 (2019): 24770-24778. https://doi.org/10.1073/pnas.1916288116

53. Fukuda, Satsuki et al. "The intraperitoneal space is more favorable than the subcutaneous one for transplanting alginate fiber containing iPS-derived islet-like cells." Regenerative therapy vol. 11 65-72. 29 May. 2019, https://doi.org/10.1016/j.reth.2019.05.003

2018

54. Ang, Teddy et al. "Endogenous glucose production after sequential meals in humans: evidence for more prolonged suppression after ingestion of a second meal." American journal of physiology. Endocrinology and metabolism vol. 315,5 (2018): E904-E911. https://doi.org/10.1152/ajpendo.00233.2018

55. Astiarraga, Brenno et al. "Effects of acute NEFA manipulation on incretin-induced insulin secretion in participants with and without type 2 diabetes." Diabetologia vol. 61,8 (2018): 1829-1837. https://doi.org/10.1007/s00125-018-4633-z

56. Basu, Ananda et al. "Greater early postprandial suppression of endogenous glucose production and higher initial glucose disappearance is achieved with fast-acting insulin aspart compared with insulin aspart." Diabetes, obesity & metabolism vol. 20,7 (2018): 1615-1622. https://doi.org/10.1111/dom.13270

57. Beigi, Aboutaleb et al. "Association between serum adropin levels and gestational diabetes mellitus; a case-control study." Gynecological endocrinology : the official journal of the International Society of Gynecological Endocrinology vol. 31,12 (2015): 939-41. https://doi.org/10.3109/09513590.2015.1081681

58. Cheng, Xiping et al. "Glucagon contributes to liver zonation." Proceedings of the National Academy of Sciences of the United States of America vol. 115,17 (2018): E4111-E4119. https://doi.org/10.1073/pnas.1721403115

59. Choi, H et al. "Effect of short-term intensive insulin therapy on the incretin response in early type 2 diabetes." Diabetes & metabolism vol. 45,2 (2019): 197-200. https://doi.org/10.1016/j.diabet.2018.01.003

60. Chung, Stephanie T et al. "Gluconeogenesis and risk for fasting hyperglycemia in Black and White women." JCI insight vol. 3,18 e121495. 20 Sep. 2018, https://doi.org/10.1172/jci.insight.121495

61. Cogan, Karl E, and Brendan Egan. “Effects of acute ingestion of whey protein with or without prior aerobic exercise on postprandial glycemia in type 2 diabetics.” European journal of applied physiology vol. 118,9 (2018): 1959-1968. https://doi.org/10.1007/s00421-018-3931-y

62. Cusi, Kenneth et al. “Effect of canagliflozin treatment on hepatic triglyceride content and glucose metabolism in patients with type 2 diabetes.” Diabetes, obesity & metabolism vol. 21,4 (2019): 812-821. https://doi.org/10.1111/dom.13584

63. Gar, Christina et al. “Patterns of Plasma Glucagon Dynamics Do Not Match Metabolic Phenotypes in Young Women.” The Journal of clinical endocrinology and metabolism vol. 103,3 (2018): 972-982. https://doi.org/10.1210/jc.2017-02014

64. Gasbjerg, Lærke S et al. “GIP(3-30)NH2 is an efficacious GIP receptor antagonist in humans: a randomised, double-blinded, placebo-controlled, crossover study.” Diabetologia vol. 61,2 (2018): 413-423. https://doi.org/10.1007/s00125-017-4447-4

65. Ge, Xuecai et al. “LEAP2 Is an Endogenous Antagonist of the Ghrelin Receptor.” Cell metabolism vol. 27,2 (2018): 461-469.e6. https://doi.org/10.1016/j.cmet.2017.10.016

66. Horie, Ichiro et al. “Predictive factors of efficacy of combination therapy with basal insulin and liraglutide in type 2 diabetes when switched from longstanding basal-bolus insulin: Association between the responses of β- and α-cells to GLP-1 stimulation and the glycaemic control at 6 months after switching therapy.” Diabetes research and clinical practice vol. 144 (2018): 161-170. https://doi.org/10.1016/j.diabres.2018.08.015

67. Kawamori, Dan et al. “Dysregulated plasma glucagon levels in Japanese young adult type 1 diabetes patients.” Journal of diabetes investigation vol. 10,1 (2019): 62-66. https://doi.org/10.1111/jdi.12862

68. Korsatko, Stefan et al. “Effect of once-weekly semaglutide on the counterregulatory response to hypoglycaemia in people with type 2 diabetes: A randomized, placebo-controlled, double-blind, crossover trial.” Diabetes, obesity & metabolism vol. 20,11 (2018): 2565-2573. https://doi.org/10.1111/dom.13422

69. Mano, Fumika et al. “Effects of three major amino acids found in Japanese broth on glucose metabolism and gastric emptying.” Nutrition (Burbank, Los Angeles County, Calif.) vol. 46 (2018): 153-158.e1. https://doi.org/10.1016/j.nut.2017.08.007

70. Marchand, Lucien et al. “Diabetes mellitus induced by PD-1 and PD-L1 inhibitors: description of pancreatic endocrine and exocrine phenotype.” Acta diabetologica vol. 56,4 (2019): 441-448. https://doi.org/10.1007/s00592-018-1234-8

71. Markova, Mariya et al. “Rate of appearance of amino acids after a meal regulates insulin and glucagon secretion in patients with type 2 diabetes: a randomized clinical trial.” The American journal of clinical nutrition vol. 108,2 (2018): 279-291. https://doi.org/10.1093/ajcn/nqy100

72. Murata, Makoto et al. “Glucagon secretion determined by the RIA method is lower in patients with low left ventricular ejection fraction: The new glass study.” Diabetes research and clinical practice vol. 144 (2018): 260-269. https://doi.org/10.1016/j.diabres.2018.09.001

73. Niwano, Fumimaru et al. “Insulin deficiency with and without glucagon: A comparative study between total pancreatectomy and type 1 diabetes.” Journal of diabetes investigation vol. 9,5 (2018): 1084-1090. https://doi.org/10.1111/jdi.12799

74. Peiris, Heshan et al. “Discovering human diabetes-risk gene function with genetics and physiological assays.” Nature communications vol. 9,1 3855. 21 Sep. 2018, https://doi.org/10.1038/s41467-018-06249-3

75. Robert, Thomas et al. “Functional Beta Cell Mass from Device-Encapsulated hESC-Derived Pancreatic Endoderm Achieving Metabolic Control.” Stem cell reports vol. 10,3 (2018): 739-750. https://doi.org/10.1016/j.stemcr.2018.01.040

76. Roberts, Geoffrey P et al. “Gastrectomy with Roux-en-Y reconstruction as a lean model of bariatric surgery.” Surgery for obesity and related diseases : official journal of the American Society for Bariatric Surgery vol. 14,5 (2018): 562-568. https://doi.org/10.1016/j.soard.2018.01.039

77. Ruetten, Hartmut et al. “Mixed Meal and Intravenous L-Arginine Tests Both Stimulate Incretin Release Across Glucose Tolerance in Man: Lack of Correlation with β Cell Function.” Metabolic syndrome and related disorders vol. 16,8 (2018): 406-415. https://doi.org/10.1089/met.2018.0022

78. Southard, Sheryl M et al. “Generation and selection of pluripotent stem cells for robust differentiation to insulin-secreting cells capable of reversing diabetes in rodents.” PloS one vol. 13,9 e0203126. 5 Sep. 2018, https://doi.org/10.1371/journal.pone.0203126

79. Ström, Kristoffer et al. “N1-methylnicotinamide is a signalling molecule produced in skeletal muscle coordinating energy metabolism.” Scientific reports vol. 8,1 3016. 14 Feb. 2018, https://doi.org/10.1038/s41598-018-21099-1

80. Ueno, Hiroaki et al. “Effects of Ipragliflozin on Postprandial Glucose Metabolism and Gut Peptides in Type 2 Diabetes: A Pilot Study.” Diabetes therapy : research, treatment and education of diabetes and related disorders vol. 9,1 (2018): 403-411. https://doi.org/10.1007/s13300-018-0366-8

81. Zenz, Sabine et al. “Impact of C-Peptide Status on the Response of Glucagon and Endogenous Glucose Production to Induced Hypoglycemia in T1DM.” The Journal of clinical endocrinology and metabolism vol. 103,4 (2018): 1408-1417. https://doi.org/10.1210/jc.2017-01836

2017

82. Karimian Azari, Elnaz et al. “Inhibition of sweet chemosensory receptors alters insulin responses during glucose ingestion in healthy adults: a randomized crossover interventional study.” The

American journal of clinical nutrition vol. 105,4 (2017): 1001-1009. https://doi.org/10.3945/ajcn.116.146001

83. Burke, Susan J et al. "db/db Mice Exhibit Features of Human Type 2 Diabetes That Are Not Present in Weight-Matched C57BL/6J Mice Fed a Western Diet." Journal of diabetes research vol. 2017 (2017): 8503754. https://doi.org/10.1155/2017/8503754

84. Bozadjieva, Nadejda et al. "Loss of mTORC1 signaling alters pancreatic α cell mass and impairs glucagon secretion." The Journal of clinical investigation vol. 127,12 (2017): 4379-4393. https://doi.org/10.1172/jci90004

85. Kramer, Caroline K et al. "Impact of the Glucagon Assay When Assessing the Effect of Chronic Liraglutide Therapy on Glucagon Secretion." The Journal of clinical endocrinology and metabolism vol. 102,8 (2017): 2729-2733. https://doi.org/10.1210/jc.2017-00928

86. Miyachi, Atsushi et al. "Accurate analytical method for human plasma glucagon levels using liquid chromatography-high resolution mass spectrometry: comparison with commercially available immunoassays." Analytical and bioanalytical chemistry vol. 409,25 (2017): 5911-5918. https://doi.org/10.1007/s00216-017-0534-0

87. Petrenko, Volodymyr et al. "High-Resolution Recording of the Circadian Oscillator in Primary Mouse α- and β-Cell Culture." Frontiers in endocrinology vol. 8 68. 7 Apr. 2017, https://doi.org/10.3389/fendo.2017.00068

88. Poitou, Christine et al. "Fasting levels of glicentin are higher in Roux-en-Y gastric bypass patients exhibiting postprandial hypoglycemia during a meal test." Surgery for obesity and related diseases : official journal of the American Society for Bariatric Surgery vol. 14,7 (2018): 929-935. https://doi.org/10.1016/j.soard.2018.03.014

89. Ribeiro, Diana et al. "Human pancreatic islet-derived extracellular vesicles modulate insulin expression in 3D-differentiating iPSC clusters." PloS one vol. 12,11 e0187665. 8 Nov. 2017, https://doi.org/10.1371/journal.pone.0187665

90. Saloustros, Emmanouil et al. "Prkar1a gene knockout in the pancreas leads to neuroendocrine tumorigenesis." Endocrine-related cancer vol. 24,1 (2017): 31-40. https://doi.org/10.1530/erc-16-0443

91. Shi, Lin et al. "Targeted metabolomics reveals differences in the extended postprandial plasma metabolome of healthy subjects after intake of whole-grain rye porridges versus refined wheat bread." Molecular nutrition & food research vol. 61,7 (2017): 10.1002/mnfr.201600924. https://doi.org/10.1002/mnfr.201600924

92. Tharakan, George et al. "Roles of increased glycaemic variability, GLP-1 and glucagon in hypoglycaemia after Roux-en-Y gastric bypass." European journal of endocrinology vol. 177,6 (2017): 455-464. https://doi.org/10.1530/eje-17-0446

93. Thiessen, Steven E et al. “Role of Glucagon in Catabolism and Muscle Wasting of Critical Illness and Modulation by Nutrition.” American journal of respiratory and critical care medicine vol. 196,9 (2017): 1131-1143. https://doi.org/10.1164/rccm.201702-0354OC

94. Traub, Shuyang et al. “Pancreatic α Cell-Derived Glucagon-Related Peptides Are Required for β Cell Adaptation and Glucose Homeostasis.” Cell reports vol. 18,13 (2017): 3192-3203. https://doi.org/10.1016/j.celrep.2017.03.005

95. Wasserfall, Clive et al. “Persistence of Pancreatic Insulin mRNA Expression and Proinsulin Protein in Type 1 Diabetes Pancreata.” Cell metabolism vol. 26,3 (2017): 568-575.e3. https://doi.org/10.1016/j.cmet.2017.08.013

96. Wang, May-Yun et al. “Dapagliflozin suppresses glucagon signaling in rodent models of diabetes.” Proceedings of the National Academy of Sciences of the United States of America vol. 114,25 (2017): 6611-6616. https://doi.org/10.1073/pnas.1705845114

97. Zapata, Rizaldy C et al. “Differential circulating concentrations of adipokines, glucagon and adropin in a clinical population of lean, overweight and diabetic cats.” BMC veterinary research vol. 13,1 85. 4 Apr. 2017, https://doi.org/10.1186/s12917-017-1011-x

2016

98. Alexandru, Petruta et al. “Functional Characterization of 1.1B4 - Novel Human Insulin Releasing Cell Line and Effect of High Density Green Photons Irradiation on Beta Pancreatic Cells and Human Pancreatic Islets.” Journal of Translational Medicine and Research 21 (2016): 183.

99. Alsalim, W et al. “Mixed meal ingestion diminishes glucose excursion in comparison with glucose ingestion via several adaptive mechanisms in people with and without type 2 diabetes.” Diabetes, obesity & metabolism vol. 18,1 (2016): 24-33. https://doi.org/10.1111/dom.12570

100. Farngren, Johan et al. “Effect of the GLP-1 Receptor Agonist Lixisenatide on Counterregulatory Responses to Hypoglycemia in Subjects With Insulin-Treated Type 2 Diabetes.” Diabetes care vol. 39,2 (2016): 242-9. https://doi.org/10.2337/dc15-1274

101. Ganic, Elvira et al. “MafA-Controlled Nicotinic Receptor Expression Is Essential for Insulin Secretion and Is Impaired in Patients with Type 2 Diabetes.” Cell reports vol. 14,8 (2016): 1991-2002. https://doi.org/10.1016/j.celrep.2016.02.002

102. Ilkowitz, Jeniece T et al. “Adjuvant Liraglutide and Insulin Versus Insulin Monotherapy in the Closed-Loop System in Type 1 Diabetes: A Randomized Open-Labeled Crossover Design Trial.” Journal of diabetes science and technology vol. 10,5 1108-14. 22 Aug. 2016, https://doi.org/10.1177/1932296816647976

103. Komiya, Chikara et al. “Ipragliflozin Improves Hepatic Steatosis in Obese Mice and Liver Dysfunction in Type 2 Diabetic Patients Irrespective of Body Weight Reduction.” PloS one vol. 11,3 e0151511. 15 Mar. 2016, https://doi.org/10.1371/journal.pone.0151511

104. Lund, Asger et al. “Evidence of Extrapancreatic Glucagon Secretion in Man.” Diabetes vol. 65,3 (2016): 585-97. https://doi.org/10.2337/db15-1541

105. Manell, Hannes et al. “Altered Plasma Levels of Glucagon, GLP-1 and Glicentin During OGTT in Adolescents With Obesity and Type 2 Diabetes.” The Journal of clinical endocrinology and metabolism vol. 101,3 (2016): 1181-9. https://doi.org/10.1210/jc.2015-3885

106. Neumann, Ursula H et al. “Glucagon receptor gene deletion in insulin knockout mice modestly reduces blood glucose and ketones but does not promote survival.” Molecular metabolism vol. 5,8 731-736. 30 May. 2016, https://doi.org/10.1016/j.molmet.2016.05.014

107. Neumann, Ursula H et al. “Insulin Knockout Mice Have Extended Survival but Volatile Blood Glucose Levels on Leptin Therapy.” Endocrinology vol. 157,3 (2016): 1007-12. https://doi.org/10.1210/en.2015-1890

108. Pedersen, Morten G et al. “Dapagliflozin stimulates glucagon secretion at high glucose: experiments and mathematical simulations of human A-cells.” Scientific reports vol. 6 31214. 18 Aug. 2016, https://doi.org/10.1038/srep31214

109. Söder, J et al. “Metabolic and Hormonal Response to a Feed-challenge Test in Lean and Overweight Dogs.” Journal of veterinary internal medicine vol. 30,2 (2016): 574-82. https://doi.org/10.1111/jvim.13830

110. Sterl, Karin et al. “Metabolic responses to xenin-25 are altered in humans with Roux-en-Y gastric bypass surgery.” Peptides vol. 82 (2016): 76-84. https://doi.org/10.1016/j.peptides.2016.06.001

111. Tricò, D et al. “Sustained effects of a protein and lipid preload on glucose tolerance in type 2 diabetes patients.” Diabetes & metabolism vol. 42,4 (2016): 242-8. https://doi.org/10.1016/j.diabet.2016.03.004

112. Wewer Albrechtsen, Nicolai J et al. “Inability of Some Commercial Assays to Measure Suppression of Glucagon Secretion.” Journal of diabetes research vol. 2016 (2016): 8352957. https://doi.org/10.1155/2016/8352957

113. Wewer Albrechtsen, Nicolai J et al. “Dynamics of glucagon secretion in mice and rats revealed using a validated sandwich ELISA for small sample volumes.” American journal of physiology. Endocrinology and metabolism vol. 311,2 (2016): E302-9. https://doi.org/10.1152/ajpendo.00119.2016

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