



Bibliography

Glucagon ELISA

10-1271-01

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Glucagon (10-1271-01)

2023

1. Junko Nishida, Takahiro Tsuno, Shigeharu G. Yabe, Tatsuya Kin, Satsuki Fukuda, Fujie Takeda, Jun Shirakawa, H. O. (2023). Encapsulated human islets in alginate fiber maintain long-term functionality. *Endocr J.* https://www.jstage.jst.go.jp/article/endocrj/advpub/0/advpub_EJ23-0474/_article
2. Fineman, M. S., Bryant, C. L. N., Colbert, K., Jozefiak, T. H., Petersen, J. S., Horowitz, M., Vora, J., Rayner, C. K., Wabnitz, P., & Nimgaonkar, A. (2023). First-in-human study of a pharmacological duodenal exclusion therapy shows reduced postprandial glucose and insulin and increased bile acid and gut hormone concentrations. *Diabetes, Obesity and Metabolism*, 25(9), 2447–2456. <https://doi.org/10.1111/DOM.15066>
3. Zilstorff, D. B., Richter, M. M., Hannibal, J., Jørgensen, H. L., Sennels, H. P., & Albrechtsen, N. J. W. (2023). Secretion of glucagon, GLP-1 and GIP may be affected by circadian rhythm in healthy males. Research Square. https://www.researchgate.net/publication/376494456_Secretion_of_glucagon,GLP-1_and_GIP_may_be_affected_by_circadian_rhythm_in_healthy_males
4. Castillo-Armengol, J., Marzetta, F., Rodriguez Sanchez-Archidona, A., Fledelius, C., Evans, M., McNeilly, A., McCrimmon, R. J., Ibberson, M., & Thorens, B. (2023). Disrupted hypothalamic transcriptomics and proteomics in a mouse model of type 2 diabetes exposed to recurrent hypoglycaemia. *Diabetologia*, 1, 1–21. <https://doi.org/10.1007/S00125-023-06043-X/FIGURES/7>
5. Welch, A. A., Farahani, R. A., Egan, A. M., Laurenti, M. C., Zeini, M., Vella, M., Bailey, K. R., Cobelli, C., Man, C. D., Matveyenko, A., & Vella, A. (2023). Glucagon-like peptide-1 receptor blockade impairs islet secretion and glucose metabolism in humans. *The Journal of Clinical Investigation*, 133(22). <https://doi.org/10.1172/JCI173495>
6. Tricò, D., Masoni, M. C., Baldi, S., Cimbalo, N., Sacchetta, L., Scozzaro, M. T., Nesti, G., Mengozzi, A., Nesti, L., Chiriacò, M., & Natali, A. (2023). Early time-restricted carbohydrate consumption vs conventional dieting in type 2 diabetes: a randomised controlled trial. *Diabetologia*, 1, 1–12. <https://doi.org/10.1007/s00125-023-06045-9>
7. Qian, M. F., Bevacqua, R. J., Coykendall, V. M. N., Liu, X., Zhao, W., Chang, C. A., Gu, X., Dai, X.-Q., MacDonald, P. E., & Kim, S. K. (2023). HNF1 α maintains

pancreatic α and β cell functions in primary human islets. JCI Insight.
<https://doi.org/10.1172/JCI.INSIGHT.170884>

8. Bohl, M., Gregersen, S., Zhong, Y., Hebelstrup, K. H., & Hermansen, K. (2023). Beneficial glycaemic effects of high-amylose barley bread compared to wheat bread in type 2 diabetes. European Journal of Clinical Nutrition 2023, 1–8. <https://doi.org/10.1038/s41430-023-01364-x>
9. Nassar, W. F., El-Ansary, M., Fathy, A., Nassar, M., & W., N. (2023). Insulin Secretion in Extended Mixed-Meal Tolerance Test in the Context of the Four Phases of Digestion. Diabetes Complications. <https://www.scivisionpub.com/pdf>
10. Wodschow, H. Z., Davidovski, F. S., Christensen, J., Lassen, M. C. H., Skaarup, K. G., Nygaard, H., Møller, N., Rungby, J., Biering-Sørensen, T., Rossing, P., Jensen, N. J., & Laursen, J. C. (2023). Oral ketone esters acutely improve myocardial contractility in post-hospitalized COVID-19 patients: A randomized placebo-controlled double-blind crossover study. Frontiers in Nutrition, 10, 1131192. <https://doi.org/10.3389/fnut.2023.1131192>
11. Veldscholte, K., Hulst, J. M., Eveleens, R. D., de Jonge, R. C. J., de Koning, B. A. E., van den Berg, S. A. A., van der Wal, R., Ruijter, G. J. G., Rizopoulos, D., Vanhorebeek, I., Gunst, J., Casaer, M., Van den Berghe, G., Joosten, K. F. M., & Verbruggen, S. C. A. T. (2023). Gastrointestinal biomarkers and their association with feeding in the first five days of pediatric critical illness. Journal of Pediatric Gastroenterology and Nutrition. <https://doi.org/10.1097/MPG.0000000000003950>
12. Welch, A. A., Farahani, R. A., Egan, A. M., Laurenti, M. C., Zeini, M., Vella, M., Bailey, K. R., Cobelli, C., Man, C. D. D., Matveyenko, A., & Vella, A. (2023). The effect of Glucagon-Like Peptide-1 Receptor blockade on islet secretion and glucose metabolism in humans. The Journal of Clinical Investigation. <https://doi.org/10.1172/JCI173495>
13. Palmqvist, H. (2023). Whole grain cereals in dog food. Effects on metabolism and gut microbiota. Swedish University of Agricultural Sciences, 2023:65. <https://doi.org/10.54612/a.1cn95jv40c>
14. Kjeldsen, S. A. S., Thomsen, M. N., Skytte, M., Samkani, A., Richter, M. M., Frystyk, J., Magkos, F., Hansen, E., Thomsen, H. S., Holst, J. J., Madsbad, S., Haugaard, S. B., Krarup, T., & Wever Albrechtsen, N. J. (2023). Markers of glucagon resistance improve with reductions in hepatic steatosis and body weight in type 2 diabetes. Journal of the Endocrine Society. <https://doi.org/10.1210/JENDSO/BVAD122>

15. Pollock, S. D., Galicia-Silva, I. M., Liu, M., Gruskin, Z. L., & Alvarez-Dominguez, J. R. (2023). Scalable generation of 3D pancreatic islet organoids from human pluripotent stem cells in suspension bioreactors. *STAR Protocols*, 4(4), 102580. <https://doi.org/10.1016/J.XPRO.2023.102580>
16. Lundqvist, M. H., Pereira, M. J., Almby, K., Hetty, S., & Eriksson, J. W. (2023). Regulation of the cortisol axis, glucagon and growth hormone by glucose is altered in prediabetes and type 2 diabetes. *The Journal of Clinical Endocrinology & Metabolism*. <https://doi.org/10.1210/CLINEM/DGAD549>
17. Ishibashi, R., Hirayama, K., Watanabe, S., Okano, K., Kuroda, Y., Baba, Y., Kanayama, T., Ito, C., Kasahara, K., Aiba, S., Iga, R., Ohtani, R., Inaba, Y., Koshizaka, M., Maezawa, Y., & Yokote, K. (2023). Imeglimin-mediated glycemic control in maternally inherited deafness and diabetes. *Journal of Diabetes Investigation*. <https://doi.org/10.1111/JDI.14085>
18. Matsuda, T., Himeno, N., Nakashima, A., Nakagawa, N., Kohashi, T., Kawamori, D., & Kamei, N. (2023). Different post-pancreatectomy glucagon responses to a meal test between surgical approaches. *Endocrine Journal*, EJ23-0032. <https://doi.org/10.1507/ENDOCRJ.EJ23-0032>
19. Capelo-Diz, A., Lachiondo-Ortega, S., Fernández-Ramos, D., Cañas-Martín, J., Goikoetxea-Usandizaga, N., Serrano-Maciá, M., González-Rellán, M. J., Mosca, L., Blazquez-Vicens, J., Tinahones-Ruano, A., Fondevila, M. F., Buyan, M., Delgado, T. C., Gutierrez de Juan, V., Ayuso-García, P., Sánchez-Rueda, A., Velasco-Avilés, S., Fernández-Susavila, H., Riobello-Suárez, C., ... Varela-Rey, M. (2023). Hepatic levels of Sadenosylmethionine regulate the adaptive response to fasting. *Cell Metabolism*, 35(8), 1373-1389.e8. <https://doi.org/10.1507/ENDOCRJ.EJ23-0032>
20. Morita, Y., Ichikawa, N., Ootani, K., & Naito, M. (2023). Effects of Ingesting Amino Acids Simultaneously with Glucose and Fat on Postchallenge Metabolism in Healthy Young Women. <Http://Www.Sciencepublishinggroup.Com>, 11(4), 132. <https://doi.org/10.11648/J.JFNS.20231104.14>
21. Snethlage, C. M. F., McDonald, T. J., Oram, R. D., De Groen, P., Rampanelli, E., Schimmel, A. W. M., Holleman, F., Siegelaar, S., Hoekstra, J., Brouwer, C. B., Knop, F. K., Bruce Verchere, C., El, D. €, Van Raalte, H., Roep, B. O., Nieuwdorp, M., & Hanssen, N. M. J. (2023). Residual β -Cell Function Is Associated With Longer Time in Range in Individuals With Type 1 Diabetes. *Diabetes Care*. <https://doi.org/10.2337/DC23-0776>
22. Capelo-Diz, A., Lachiondo-Ortega, S., Fernández-Ramos, D., Cañas-Martín, J., Goikoetxea-Usandizaga, N., Serrano-Maciá, M., González-Rellán, M. J., Mosca, L., Blazquez-Vicens, J., Tinahones-Ruano, A., Fondevila, M. F., Buyan, M., Glucagon ELISA (10-1271-01), Bibliography

- Delgado, T. C., Gutierrez de Juan, V., Ayuso-García, P., Sánchez-Rueda, A., Velasco-Avilés, S., Fernández-Susavila, H., Riobello-Suárez, C., ... Varela-Rey, M. (2023). Hepatic levels of S-adenosylmethionine regulate the adaptive response to fasting. *Cell Metabolism*. <https://doi.org/10.1016/J.CMET.2023.07.002>
23. Huang, J., Xue, S., Buchmann, P., Teixeira, A. P., & Fussenegger, M. (2023). An electrogenetic interface to program mammalian gene expression by direct current. *Nature Metabolism* 2023, 1–13. <https://doi.org/10.1038/s42255-023-00850-7>
24. Halkjær, S. I., de Knegt, V. E., Kallemose, T., Jensen, J.-E. B., Cortes, D., Gluud, L. L., Wewer Albrechtsen, N. J., & Petersen, A. M. (2023). No effect of multi-strain probiotic supplementation on metabolic and inflammatory markers and newborn body composition in pregnant women with obesity: Results from a randomized, double-blind placebo-controlled study. *Nutrition, Metabolism and Cardiovascular Diseases*. <https://doi.org/10.1016/J.NUMECD.2023.07.030>
25. Panzer, J. K., & Caicedo, A. (2023). Protocol to generate and utilize pancreatic tissue slices to study endocrine and exocrine physiology in situ from mouse and human tissue. *STAR Protocols*, 4(3), 102399. <https://doi.org/10.1016/J.XPRO.2023.102399>
26. Schönenberger, K. A., Ferreira, A., Stebler, C., Prendin, F., Gawinecka, J., Nakas, C. T., Mühlbach, S., Stanga, Z., Facchinetto, A., Herzig, D., & Bally, L. (2023). Nutritional strategies for correcting low glucose values in patients with postbariatric hypoglycaemia: A randomized controlled three-arm crossover trial. *Diabetes, Obesity and Metabolism*. <https://doi.org/10.1111/DOM.15175>
27. Stenlid, R., Manell, H., Seth, R., Cerenius, S. Y., Chowdhury, A., Cortés, C. R., Nyqvist, I., Lundqvist, T., Halldin, M., & Bergsten, P. (2023). Low Fasting Concentrations of Glucagon in Patients with Very Long-Chain Acyl-CoA Dehydrogenase Deficiency. *Metabolites* 2023, Vol. 13, Page 780, 13(7), 780. <https://doi.org/10.3390/METABO13070780>
28. Grohmann, T., Walker, A. W., Russell, W. R., Hoggard, N., Zhang, X., Horgan, G., & de Roos, B. (2023). A grape seed and bilberry extract reduces blood pressure in individuals at risk of developing type 2 diabetes: the PRECISE study, a double-blind placebo-controlled cross-over intervention study. *Frontiers in Nutrition*, 10, 1139880. <https://doi.org/10.3389/FNUT.2023.1139880>
29. Pieber, T. R., Arfelt, K. N., Cailleteau, R., Hart, M., Soumitra Kar, , Mursic, I., Svehlikova, , Eva, Urschitz, M., & Haahr, H. (2023). Hypoglycaemia frequency and physiological response after double or triple doses of once-weekly insulin icodec vs once-daily insulin glargine U100 in type 2 diabetes: a

randomised crossover trial. *Diabetologia* 2023, 1, 1–18.

<https://doi.org/10.1007/S00125-023-05921-8>

30. Hibi, M., Katada, S., Kawakami, A., Bito, K., Ohtsuka, M., Sugitani, K., Muliandi, A., Yamanaka, N., Hasumura, T., Ando, Y., Fushimi, T., Fujimatsu, T., Akatsu, T., Kawano, S., Kimura, R., Tsuchiya, S., Yamamoto, Y., Haneoka, M., Kushida, K., ... Maruyama, H. (2023). Assessment of Multidimensional Health Care Parameters Among Adults in Japan for Developing a Virtual Human Generative Model: Protocol for a Cross-sectional Study. *JMIR Res Protoc* 2023;12:E47024 <Https://Www.Researchprotocols.Org/2023/1/E47024>, 12(1), e47024. <https://doi.org/10.2196/47024>
31. Berger, C. (2023). Influence of the pancreatic extracellular matrix on pancreatic differentiation of human induced pluripotent stem cells and establishment of 3D organ models [Universität Würzburg].
<https://doi.org/10.25972/OPUS-24126>
32. Grandt, J., Jensen, A. H., Werge, M. P., Rashu, E. B., Møller, A., Junker, A. E., Hobolth, L., Mortensen, C., Johansen, C. D., Vyberg, M., Serizawa, R. R., Møller, S., Gluud, L. L., & Wewer Albrechtsen, N. J. (2023). Postprandial dysfunction in fatty liver disease. *Physiological Reports*. <https://doi.org/10.14814/phy2.15653>
33. Zhang, J., Schäfer, S. M., Kabisch, S., Csanalosi, M., Schuppelius, B., Kemper, M., Markova, M., Meyer, N. M. T., Pivovarova-Ramich, O., Keyhani-Nejad, F., Rohn, S., & Pfeiffer, A. F. H. (2023). Implication of sugar, protein and incretins in excessive glucagon secretion in type 2 diabetes after mixed meals. *Clinical Nutrition*, 42(4), 467–476. <https://doi.org/10.1016/J.CLNU.2023.02.011>
34. Manell, H., Shen, Q., Chowdhury, A., Roomp, K., Ciba, I., Weghuber, D., Kamali-Moghaddam, M., Bergsten, P., & Forslund, A. (2023). Biomarker screening in children and adolescents reveals that CUB domain-containing protein 1 is associated with obesity and that hepatocyte growth factor is associated with weight gain. *Obesity Medicine*, 100481.
<https://doi.org/10.1016/J.OBMED.2023.100481>
35. Eriksson, J. W., Emad, R. A., Lundqvist, M. H., Abrahamsson, N., Kjellsson, M. C., Kjellsson, M., & Prof, A. (2023). Altered glucose-dependent secretion of glucagon and ACTH is associated with insulin resistance, assessed by population analysis. *Endocrine Connections*, 1(aop).
<https://doi.org/10.1530/EC-22-0506>
36. Yanagimoto, A., Matsui, Y., Yamaguchi, T., Saito, S., Hanada, R., & Hibi, M. (2023). Acute Dose–Response Effectiveness of Combined Catechins and Chlorogenic Acids on Postprandial Glycemic Responses in Healthy Men: Results from Two Randomized Studies. *Nutrients* 2023, Vol. 15, Page 777, 15(3), 777. <https://doi.org/10.3390/NU15030777>

37. Hirabayashi, T., Kawaguchi, M., Harada, S., Kurano, M., Yatomi, Y., Murakami, M., Mouri, M., Takamiya, R., Miki, Y., Sato, H., Taketomi, Y., Yokoyama, K., Kobayashi, T., Tokuoka, S. M., Kita, Y., Yoda, E., Hara, S., Mikami, K., Nishito, Y., ... Soga, T. (2023). Hepatic phosphatidylcholine catabolism driven by PNPLA7 and PNPLA8 supplies endogenous choline to replenish the methionine cycle with methyl groups. *Cell Reports*, 42, 111940.
<https://doi.org/10.1016/j.celrep.2022.111940>
38. Handzlik, M. K., Gengatharan, J. M., Frizzi, K. E., McGregor, G. H., Martino, C., Rahman, G., Gonzalez, A., Moreno, A. M., Green, C. R., Guernsey, L. S., Lin, T., Tseng, P., Ideguchi, Y., Fallon, R. J., Chaix, A., Panda, S., Mali, P., Wallace, M., Knight, R., ... Metallo, C. M. (2023). Insulin-regulated serine and lipid metabolism drive peripheral neuropathy. *Nature* 2023, 1–7.
<https://doi.org/10.1038/s41586-022-05637-6>
39. Tripyla, A., Herzig, D., Reverter-Branchat, G., Pavan, J., Schiavon, M., Eugster, P. J., Grouzmann, E., Nakas, C. T., Sauvinet, V., Meiller, L., Zehetner, J., Giachino, D., Nett, P., Gawinecka, J., Favero, S. Del, Thomas, A., Thevis, M., Chiara, &, Man, D., ... Ch, L. B. (2023). Counter-regulatory responses to postprandial hypoglycaemia in patients with post-bariatric hypoglycaemia vs surgical and non-surgical control individuals. *Diabetologia* 2023, 1–13.
<https://doi.org/10.1007/S00125-022-05861-9>
40. Dong, G., Adak, S., Spyropoulos, G., Zhang, Q., Feng, C., Yin, L., Speck, S. L., Shyr, Z., Morikawa, S., Kitamura, R. A., Kathayat, R. S., Dickinson, B. C., Ng, X. W., Piston, D. W., Urano, F., Remedi, M. S., Wei, X., & Semenkovich, C. F. (2023). Palmitoylation couples' insulin hypersecretion with β cell failure in diabetes. *Cell Metabolism*. <https://doi.org/10.1016/J.CMET.2022.12.012>
41. Krogh, L. S. L., Henriksen, K., Stensen, S., Skov-Jeppesen, K., Bergmann, N. C., Størling, J., Rosenkilde, M. M., Hartmann, B., Holst, J. J., Gasbjerg, L. S., & Knop, F. K. (2023). The naturally occurring GIP(1-30)NH₂ is a GIP receptor agonist in humans. *European Journal of Endocrinology*, 188(1).
<https://doi.org/10.1093/EJENDO/LVAC015>
42. Holst, J. J. (2023). Glucagon 100 years. Important, but still enigmatic. *Peptides*, 170942. <https://doi.org/10.1016/J.PEPTIDES.2023.170942>
43. Huang, W., Xie, C., Wewer Albrechtsen, N. J., Jones, K. L., Horowitz, M., Rayner, C. K., & Wu, T. (2023). The 'early' postprandial glucagon response is related to the rate of gastric emptying in type 2 diabetes. *Peptides*, 161, 170941.
<https://doi.org/10.1016/J.PEPTIDES.2023.170941>
44. Guevara-Aguirre, J., Rosenbloom, A. L., Guevara, A., Atkinson, M. A., Williams, M. D., Terán, E., Posgai, A. L., Guevara, C., Rosado, V., Gavilanes, A. W. D., & Glucagon ELISA (10-1271-01), Bibliography

Wasserfall, C. H. (2023). Divergent metabolic phenotypes in two genetic syndromes of low insulin secretion. *Diabetes Research and Clinical Practice*, 196, 110228. <https://doi.org/10.1016/J.DIABRES.2022.110228>

2022

45. Hindsø, M., Hedbäck, N., Svane, M. S., Møller, A., Martinussen, C., Jørgensen, N. B., Dirksen, C., Gasbjerg, L. S., Kristiansen, V. B., Hartmann, B., Rosenkilde, M. M., Holst, J. J., Madsbad, S., & Bojsen-Møller, K. N. (2022). The importance of endogenously secreted GLP-1 and GIP for postprandial glucose tolerance and β -cell function after Roux-en-Y gastric bypass and sleeve gastrectomy surgery. *Diabetes*, 72(3), 336–347. <https://doi.org/10.2337/db22-0568>
46. Faggionato, E., Laurenti, M., Vella, A., & Dalla Man, C. (2022). Assessing Glucagon Kinetics through Nonlinear Mixed Effect Modeling. <https://monolix.lixoft.com/>.
47. Fritzsche, L., Heni, M., Eckstein, S. S., Hummel, J., Schürmann, A., Häring, H. U., Preißl, H., Birkenfeld, A. L., Peter, A., Fritzsche, A., & Wagner, R. (2022). Incretin Hypersecretion in Gestational Diabetes Mellitus. *The Journal of Clinical Endocrinology & Metabolism*, 107(6), e2425–e2430. <https://doi.org/10.1210/CLINEM/DGAC095>
48. Wu, T., Rayner, C. K., Jones, K. L., Horowitz, M., Feinle-Bisset, C., Standfield, S. D., Xie, C., Deacon, C. F., Holst, J. J., & Wever Albrechtsen, N. J. (2022). Measurement of plasma glucagon in humans: A shift in the performance of a current commercially available radioimmunoassay kit. *Diabetes, Obesity & Metabolism*, 24(6), 1182–1184. <https://doi.org/10.1111/DOM.14673>
49. 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, S., Smith, N., Wesolowska-Andersen, A., Fox, J. E. M., Sun, H., Kim, S. K., Ebner, D., ... Gloyn, A. L. (2022). A genome-wide CRISPR screen identifies CALCOCO2 as a regulator of beta cell function influencing type 2 diabetes risk. *Nature Genetics* 2022, 1–12. <https://doi.org/10.1038/s41588-022-01261-2>
50. Hermann, F. M., Kjærgaard, M. F., Tian, C., Tiemann, U., Jackson, A., Olsen, L. R., Kraft, M., Carlsson, P.-O., Elfving, I. M., Kettunen, J. L. T., Tuomi, T., Novak, I., & Semb, H. (2022). An insulin hypersecretion phenotype precedes pancreatic β cell failure in MODY3 patient-specific cells. *Cell Stem Cell*. <https://doi.org/10.1016/J.STEM.2022.12.001>
51. Fujimoto, K., & Honzawa, N. (2022). Therapeutic Use of Glucagon: The Future of Diabetes Mellitus Therapy. *Int J Clin Invest Case Rep*, 1(3), 67–73.

<https://doi.org/10.55828/ijcicr-13-13>

52. Ferreira, A., Emara, A. F. A., Herzig, D., Melmer, A., Vogt, A. P., Nakas, C. T., Facchinetto, A., Dalla Man, C., & Bally, L. (2022). Study protocol for a randomised, double-blind, placebo-controlled crossover trial assessing the impact of the SGLT2 inhibitor empagliflozin on postprandial hypoglycaemia after gastric bypass. *BMJ Open*, 12(9), e060668.
<https://doi.org/10.1136/BMJOOPEN-2021-060668>
53. Ichikawa, N., Morita, Y., Ootani, K., & Naito, M. (2022). Effects of Co-ingestion of Amino Acids with Fat on Postchallenge Glycemia and Lipidemia in Healthy Young Women. [Http://Www.Sciencepublishinggroup.Com](http://Www.Sciencepublishinggroup.Com), 11(6), 177.
<https://doi.org/10.11648/J.IJNFS.20221106.11>
54. Kawamori, D., Kageyama, Y., Tanaka, T., Ishizaka, Y., Hosoe, S., Katakami, N., & Shimomura, I. (2022). Characteristic changes in plasma glutamate levels and free amino acid profiles in Japanese patients with type 1 diabetes mellitus. *Journal of Diabetes Investigation*, 2022. <https://doi.org/10.1111/JDI.13911>
55. Hibi, M., Matsui, Y., Niwa, S., Oishi, S., Yanagimoto, A., Ono, T., & Yamaguchi, T. (2022). Corosolic acid improves glucose and insulin responses in middle-aged men with impaired fasting glucose: A randomized, double-blinded, placebo-controlled crossover trial. *Journal of Functional Foods*, 97, 105256.
<https://doi.org/10.1016/J.JFF.2022.105256>
56. Hayashi, A., Matoba, K., Ohata, Y., Shimizu, N., Suzuki, A., Fujii, S., Sato, M., Takano, K., & Shichiri, M. (2022). Evaluation of the relationship between hemodialysis-related glycemic variability and hormonal profiles in patients with type 2 diabetes on hemodialysis: a pilot study. *Renal Replacement Therapy* 2022 8:1, 8(1), 1–8. <https://doi.org/10.1186/S41100-022-00429-0>
57. Dasgupta, R., Jebasingh, F. K., Anoop, S., Seenivasan, S., Kurian, M. E., Christina, F., Varghese, G., Christudoss, P., Lijesh, K. U., David, D., Chowdhury, S. D., Paul, T. V., & Thomas, N. (2022). Comprehensive evaluation of patterns of hypoglycemia unawareness (HUA) and glycemic variability (GV) in patients with fibrocalculous pancreatic diabetes (FCPD): A cross-sectional study from South India. *PLOS ONE*, 17(7), e0270788.
<https://doi.org/10.1371/JOURNAL.PONE.0270788>
58. Fanni, G., Katsogiannos, P., Jui, B. N., Sundbom, M., Hetty, S., Pereira, M. J., Eriksson, J. W., & Eriksson, J. (2022). Response of multiple hormones to glucose and arginine challenge in T2DM after gastric bypass. *Endocrine Connections*, 1(aop). <https://doi.org/10.1530/EC-22-0172>

59. Andreasen, C. R., Andersen, A., Hagelqvist, P. G., Lauritsen, J. V., Jørgensen, P. G., Engberg, S., Faber, J., Hartmann, B., Pedersen-Bjergaard, U., Knop, F. K., & Vilsbøll, T. (2022). Hypoglycaemia and rebound hyperglycaemia increase left ventricular systolic function in patients with type 1 diabetes. *Diabetes, Obesity and Metabolism*. <https://doi.org/10.1111/DOM.14790>
60. Okura, T., Fujioka, Y., Nakamura, R., Ito, Y., Kitao, S., Anno, M., Matsumoto, K., Shoji, K., Okura, H., Matsuzawa, K., Izawa, S., Ueta, E., Kato, M., Imamura, T., Taniguchi, S., & Yamamoto, K. (2022). Dipeptidyl peptidase 4 inhibitor improves insulin resistance in Japanese patients with type 2 diabetes: a single-arm study, a brief report. *Diabetology & Metabolic Syndrome* 2022 14:1, 14(1), 1–6. <https://doi.org/10.1186/S13098-022-00850-9>
61. Renuse, S., Benson, L. M., Vanderboom, P. M., Ruchi, F. N. U., Yadav, Y. R., Johnson, K. L., Brown, B. C., Peterson, J. A., Basu, R., McCormick, D. J., Pandey, A., & Basu, A. (2022). 13C15N: glucagon-based novel isotope dilution mass spectrometry method for measurement of glucagon metabolism in humans. *Clinical Proteomics* 2022 19:1, 19(1), 1–11. <https://doi.org/10.1186/S12014-022-09344-2>
62. Sohn, M., Na, G. Y., Chu, J., Joung, H., Kim, B. K., & Lim, S. (2022). Efficacy and Safety of Lactobacillus plantarum K50 on Lipids in Koreans With Obesity: A Randomized, Double-Blind Controlled Clinical Trial. *Frontiers in Endocrinology*, 12, 1906. <https://doi.org/10.3389/FENDO.2021.790046/BIBTEX>
63. Takahashi, H., Nakajima, A., Matsumoto, Y., Mori, H., Inoue, K., Yamanouchi, H., Tanaka, K., Tomiga, Y., Miyahara, M., Yada, T., Iba, Y., Matsuda, Y., Watanabe, K., & Anzai, K. (2022). Administration of Jerusalem artichoke reduces the postprandial plasma glucose and glucose-dependent insulinotropic polypeptide (GIP) concentrations in humans. *Food & Nutrition Research*, 66. <https://doi.org/10.29219/FNR.V66.7870>
64. Honzawa, N., Fujimoto, K., Kobayashi, M., Kohno, D., Kikuchi, O., Yokota-Hashimoto, H., Wada, E., Ikeuchi, Y., Tabei, Y., Dorn II, G. W., Utsunomiya, K., Nishimura, R., & Kitamura, T. (2022). Protein Kinase C (Pkc)-δ Mediates Arginine-Induced Glucagon Secretion in Pancreatic α-Cells. *International Journal of Molecular Sciences* 2022, Vol. 23, Page 4003, 23(7), 4003. <https://doi.org/10.3390/IJMS23074003>
65. Brunner, M., Moser, O., Raml, R., Haberlander, M., Boulgaropoulos, B., Obermayer-Pietsch, B., Svehlikova, E., Pieber, T. R., & Sourij, H. (2022). Assessment of Two Different Glucagon Assays in Healthy Individuals and Type 1 and Type 2 Diabetes Patients. *Biomolecules* 2022, Vol. 12, Page 466, 12(3), 466. <https://doi.org/10.3390/BIOM12030466>

66. Stinson, S. E., Jonsson, A. E., Fernández, I., Alzola, R., Lund, M. A. V., Frithioff-Bøjsøe, C., Holm, L. A., Fonvig, C. E., Pedersen, O., Ängquist, L., Sørensen, T. I. A., Holst, J. J., Christiansen, M., Holm, J.-C., Hartmann, B., & Hansen, T. (2022). Hyperglucagonemia in Pediatric Adiposity Associates With Cardiometabolic Risk Factors but Not Hyperglycemia. *The Journal of Clinical Endocrinology & Metabolism*, XX, 1–8. <https://doi.org/10.1210/CLINEM/DGAC108>
67. Sohn, M., Na, G. Y., Chu, J., Joung, H., Kim, B.-K., & Lim, S. (2022). Efficacy and Safety of Lactobacillus plantarum K50 on Lipids in Koreans With Obesity: A Randomized, Double-Blind Controlled Clinical Trial. *Frontiers in Endocrinology*, 0, 1906. <https://doi.org/10.3389/FENDO.2021.790046>
68. Okura, T., Fujioka, Y., Nakamura, R., Kitao, S., Ito, Y., Anno, M., Matsumoto, K., Shoji, K., Matsuzawa, K., Izawa, S., Okura, H., Ueta, E., Kato, M., Immamura, T., Taniguchi, S., & Yamamoto, K. (2022). The sodium–glucose cotransporter 2 inhibitor ipragliflozin improves liver function and insulin resistance in Japanese patients with type 2 diabetes. *Scientific Reports* 2022 12:1, 12(1), 1–8. <https://doi.org/10.1038/s41598-022-05704-y>
69. Hajishafiee, M., McVeay, C., Lange, K., Rehfeld, J. F., Horowitz, M., & Feinle-Bisset, C. (2022). Effects of intraduodenal infusion of lauric acid and L-tryptophan, alone and combined, on glucoregulatory hormones, gastric emptying and glycaemia in healthy men. *Metabolism*, 129, 155140. <https://doi.org/10.1016/J.METABOL.2022.155140>
70. Karlsson, D., Ahnmark, A., Sabirsh, A., Andréasson, A.-C., Gennemark, P., Sandinge, A.-S., Chen, L., Tyrberg, B., Lindén, D., & Winzell, M. S. (2022). Inhibition of SGLT2 Preserves Function and Promotes Proliferation of Human Islets Cells In Vivo in Diabetic Mice. *Biomedicines* 2022, Vol. 10, Page 203, 10(2), 203. <https://doi.org/10.3390/BIOMEDICINES10020203>
71. Lee, M. H., Neeland, I. J., de Albuquerque Rocha, N., Hughes, C., Malloy, C. R., & Jin, E. S. (2022). A randomized clinical trial evaluating the effect of empagliflozin on triglycerides in obese adults: Role of visceral fat. *Metabolism Open*, 13, 100161. <https://doi.org/10.1016/J.METOP.2021.100161>

2021

72. Dong, J., Jones, S., Tabbakh, Y., & Tan, T. M.-M. (2021). The clinical outcomes, appetite and metabolic effects of sleeve gastrectomy and Roux-en-Y gastric bypass: a comparative review. *Current Opinion in Endocrine and*

Metabolic Research, 100315. <https://doi.org/10.1016/J.COEMR.2021.100315>

73. Enhörning, S., Vanhaecke, T., Dolci, A., Perrier, E. T., & Melander, O. (2021). Investigation of possible underlying mechanisms behind water-induced glucose reduction in adults with high copeptin. *Scientific Reports* 2021 11:1, 11(1), 1–7. <https://doi.org/10.1038/s41598-021-04224-5>
74. Stafeev, I., Sklyanik, I., Mamontova, E., Michurina, S., Shestakova, E., Yah'yaev, K., Yurasov, A., Masnikov, D., Sineokaya, M., Ratner, E., Vorotnikov, A., Menshikov, M., Parfyonova, Y., & Shestakova, M. (2021). NDRG1 Activity in Fat Depots Is Associated With Type 2 Diabetes and Impaired Incretin Profile in Patients With Morbid Obesity. *Frontiers in Endocrinology*, 12, 777589. <https://doi.org/10.3389/FENDO.2021.777589>
75. Pedersen, M. G. B., Søndergaard, E., Nielsen, C. B., Johannsen, M., Gormsen, L. C., Møller, N., Jessen, N., & Rittig, N. (2021). Oral lactate slows gastric emptying and suppresses appetite in young males. *Clinical Nutrition*. <https://doi.org/10.1016/J.CLNU.2021.12.032>
76. Albrechtsen, N. J. W., Kjeldsen, S. A. S., Jensen, N. J., Rungby, J., Veedfald, S., Bojsen-Møller, K. N., Dirksen, C., Jensen, C. Z., Martinussen, C., Madsbad, S., & Holst, J. J. (2021). On measurements of glucagon secretion in healthy, obese, and Roux-en-Y gastric bypass operated individuals using sandwich ELISA. <Https://Doi.Org/10.1080/00365513.2021.2016943>, 1–9. <https://doi.org/10.1080/00365513.2021.2016943>
77. 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.00000000000025100>
78. 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>
79. 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>
80. 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>

81. 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>
82. 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>
83. 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>
84. 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>
85. 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>
86. 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>
87. 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>
88. 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>
89. 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>

90. 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>
91. 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>
92. 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>
93. 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>
94. 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>
95. 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>
96. 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>
97. 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>
98. 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>

99. 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>
100. 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>
101. 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>
102. 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>
103. 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/MD.0000000000000135
104. 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>
105. 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>
106. 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>
107. 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>

108. 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>
109. 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
110. 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>
111. 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>
112. 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>
113. 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

114. 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>
115. 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>

116. 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. 10,116758. 7 Oct. 2020, <https://doi.org/10.1038/s41598-020-73815-5>
117. 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>
118. 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

119. 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>
120. 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>
121. 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>
122. Noda, Tomohiro 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>
123. 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>

124. 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>
125. 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>
126. 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>
127. 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>
128. 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>
129. 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

130. 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>
131. 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>

132. 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>
133. 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>
134. 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>
135. 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>
136. 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>
137. 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>
138. 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>
139. 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>
140. 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>

141. 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>
142. 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>
143. 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>
144. 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>
145. 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>
146. 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>
147. 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>
148. 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>
149. 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>

150. 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>
151. 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>
152. 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>
153. 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>
154. 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>
155. 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>
156. 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>
157. 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

158. 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 Glucagon ELISA (10-1271-01), Bibliography*

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

159. 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>
160. 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>
161. 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>
162. 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>
163. 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>
164. 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.jsoard.2018.03.014>
165. 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>
166. Saloustros, Emmanouil et al. "Prkarla 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>
167. 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>

168. 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>
169. 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>
170. 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>
171. 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>
172. 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>
173. 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

174. 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. DOI: [10.21614/jtmr-21-3-92](https://doi.org/10.21614/jtmr-21-3-92)
175. 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>

176. 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>
177. 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>
178. 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>
179. 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>
180. 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>
181. 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>
182. 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>
183. 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>
184. 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>

185. 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>
186. 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>
187. 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>
188. 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>
189. 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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