

1. Xie C, Jones KL, Rayner CK, Wu T. Enteroendocrine Hormone Secretion and Metabolic Control: Importance of the Region of the Gut Stimulation. *Pharmaceutics* [Internet]. 2020;12(9):790. Available from: <https://www.mdpi.com/1999-4923/12/9/790/htm>
2. Reimann F, Gribble FM. Mechanisms underlying glucose-dependent insulinotropic polypeptide and glucagon-like peptide-1 secretion. *Journal of Diabetes Investigation* [Internet]. 2016;7:13–9. Available from: <https://onlinelibrary.wiley.com/doi/full/10.1111/jdi.12478>
3. Nauck MA, Meier JJ. Incretin hormones: Their role in health and disease. *Diabetes, Obesity and Metabolism* [Internet]. 2018;20:5–21. Available from: <https://onlinelibrary.wiley.com/doi/full/10.1111/dom.13129>
4. Little TJ, Doran S, Meyer JH, Smout AJPM, O'Donovan DG, Wu K-L, et al. The release of GLP-1 and ghrelin, but not GIP and CCK, by glucose is dependent upon the length of small intestine exposed. *American Journal of Physiology-Endocrinology and Metabolism* [Internet]. 2006 Sep 1 [cited 2019 Sep 2];291(3):E647–55. Available from: <https://www.physiology.org/doi/full/10.1152/ajpendo.00099.2006>
5. Carmody RN, Wrangham RW. The energetic significance of cooking. *Journal of Human Evolution* [Internet]. 2009 Oct [cited 2017 Nov 30];57(4):379–91. Available from: <http://linkinghub.elsevier.com/retrieve/pii/S0047248409001262>
6. Groopman EE, Carmody RN, Wrangham RW. Cooking increases net energy gain from a lipid-rich food. *American Journal of Physical Anthropology* [Internet]. 2015;156(1):11–8. Available from: <https://onlinelibrary.wiley.com/doi/full/10.1002/ajpa.22622>
7. Evenepoel P, Claus D, Geypens B, Hiele M, Geboes K, Rutgeerts P, et al. Amount and fate of egg protein escaping assimilation in the small intestine of humans. *American Journal of Physiology-Gastrointestinal and Liver Physiology* [Internet]. 1999 Nov [cited 2018 May 8];277(5):G935–43. Available from: <http://www.physiology.org/doi/10.1152/ajpgi.1999.277.5.G935>
8. Carmody RN, Weintraub GS, Wrangham RW. Energetic consequences of thermal and nonthermal food processing. *Proceedings of the National Academy of Sciences* [Internet]. 2011;108(48):19199–203. Available from: <http://pnas.org/content/108/48/19199.long>
9. Morifushi M, Ishizaka M, Baba S, Fukuda K, Matsumoto H, Koga J, et al. Comparison of Different Sources and Degrees of Hydrolysis of Dietary Protein: Effect on Plasma Amino Acids, Dipeptides, and Insulin Responses in Human Subjects. *Journal of Agricultural and Food Chemistry* [Internet]. 2010 Aug 11 [cited 2016 Sep 21];58(15):8788–97. Available from: <http://pubs.acs.org/doi/abs/10.1021/jf101912n>
10. Haber GB, Heaton KW, Murphy D, Burroughs LF. DEPLETION AND DISRUPTION OF DIETARY FIBRE. *The Lancet* [Internet]. 1977;310(8040):679–82. Available from: [https://www.thelancet.com/journals/lancet/article/PIIS0140-6736\(77\)90494-9/fulltext](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(77)90494-9/fulltext)
11. Foster-Schubert KE, Overduin J, Prudom CE, Liu J, Callahan HS, Gaylinn BD, et al. Acyl and Total Ghrelin Are Suppressed Strongly by Ingested Proteins, Weakly by Lipids, and

- Biphasically by Carbohydrates. *The Journal of Clinical Endocrinology & Metabolism* [Internet]. 2008;93(5):1971–9. Available from: <https://academic.oup.com/jcem/article/93/5/1971/2599032>
12. Lockie SH, Stark R, Mequinion M, Ch'ng S, Kong D, Spanswick DC, et al. Glucose availability predicts the feeding response to ghrelin in male mice, an effect dependent on AMPK in AgRP neurons. *Endocrinology* [Internet]. 2018; Available from: <https://academic.oup.com/endo/article-abstract/159/11/3605/5092025>
13. Lockie SH, Stark R, Spanswick DC, Andrews ZB. Glucose availability regulates ghrelin-induced food intake in the ventral tegmental area. *Journal of Neuroendocrinology* [Internet]. 2019 [cited 2021 Jan 25];31(7):e12696. Available from: <https://onlinelibrary.wiley.com/doi/abs/10.1111/jne.12696>
14. Heaton KW, Marcus SN, Emmett PM, Bolton CH. Particle size of wheat, maize, and oat test meals: effects on plasma glucose and insulin responses and on the rate of starch digestion in vitro. 1988;47(4):675–82. Available from: <https://academic.oup.com/ajcn/article-abstract/47/4/675/4694675>
15. O'Dea K, Nestel P.J., Antonoff, L. Physical factors influencing postprandial glucose and insulin responses to starch. 1980 Apr 1;33(4):760–5. Available from: <https://academic.oup.com/ajcn/article-abstract/33/4/760/4692568>
16. Juntunen KS, Niskanen LK, Liukkonen KH, Poutanen KS, Holst JJ, Mykkänen HM. Postprandial glucose, insulin, and incretin responses to grain products in healthy subjects. *The American journal of clinical nutrition* [Internet]. 2002;75(2):254–62. Available from: <https://academic.oup.com/ajcn/article/75/2/254/4689300>
17. Juntunen KS, Laaksonen DE, Karin Autio LKN Jens J Holst, Kari E Savolainen, Kirsi-Helena Liukkonen, Kaisa S Poutanen, Mykkänen, H.M. Structural differences between rye and wheat breads but not total fiber content may explain the lower postprandial insulin response to rye bread. 2003;78(5):957–64. Available from: <http://ajcn.nutrition.org/content/78/5/957.full>
18. Bornet FR, Fontvieille AM, Rizkalla S, Colonna P, Blayo A, Mercier C, et al. Insulin and glycemic responses in healthy humans to native starches processed in different ways: correlation with in vitro alpha-amylase hydrolysis. *The American Journal of Clinical Nutrition* [Internet]. 1989;50(2):315–23. Available from: <https://academic.oup.com/ajcn/article-abstract/50/2/315/4650951>
19. Carrel G, Egli L, Tran C, Schneiter P, Giusti V, D'Alessio D, et al. Contributions of fat and protein to the incretin effect of a mixed meal. *American Journal of Clinical Nutrition* [Internet]. 2011;94(4):997–1003. Available from: <http://ajcn.nutrition.org/content/94/4/997.long>
20. Bligh HFJ, Godsland IF, Frost G, Hunter KJ, Murray P, MacAulay K, et al. Plant-rich mixed meals based on Paleolithic diet principles have a dramatic impact on incretin, peptide YY and satiety response, but show little effect on glucose and insulin homeostasis: an acute-effects randomised study. *British Journal of Nutrition* [Internet]. 2015;113(04):574–84. Available from:

<https://www.cambridge.org/core/journals/british-journal-of-nutrition/article/div-classtitleplant-rich-mixed-meals-based-on-palaeolithic-diet-principles-have-a-dramatic-impact-on-incretin-peptide-yy-and-satiety-response-but-show-little-effect-on-glucose-and-insulin-homeostasis-an-acute-effects-randomised-studydiv/F0F0BA1789441BE59DBB72298646C260>

21. Desmarchelier C, Ludwig T, Scheundel R, Rink N, Bader BL, Klingenspor M, et al. Diet-induced obesity in ad libitum-fed mice: food texture overrides the effect of macronutrient composition. *British Journal of Nutrition* [Internet]. 2013 [cited 2016 Sep 21];109(08):1518–27. Available from: http://www.journals.cambridge.org/abstract_S0007114512003340
22. Zoetendal EG, Raes J, van den Bogert B, Arumugam M, Booijink CC, Troost FJ, et al. The human small intestinal microbiota is driven by rapid uptake and conversion of simple carbohydrates. *The ISME Journal* [Internet]. 2012;6(7):1415–26. Available from: <https://www.nature.com/articles/ismej2011212>
23. Stahel P, Xiao C, Davis X, Tso P, Lewis GF. Glucose and GLP-2 (Glucagon-Like Peptide-2) Mobilize Intestinal Triglyceride by Distinct Mechanisms. *Arteriosclerosis, Thrombosis, and Vascular Biology* [Internet]. 2019;39(8):1565–73. Available from: <https://www.ahajournals.org/doi/10.1161/ATVBAHA.119.313011>
24. Thornton JR, Emmett PM, Heaton KW. Diet and gall stones: effects of refined and unrefined carbohydrate diets on bile cholesterol saturation and bile acid metabolism. *Gut* [Internet]. 1983 Jan 1 [cited 2021 Jan 26];24(1):2–6. Available from: <https://gut.bmj.com/content/24/1/2>
25. Wong AC, Ko CW. Carbohydrate Intake as a Risk Factor for Biliary Sludge and Stones During Pregnancy. *Journal of Clinical Gastroenterology* [Internet]. 2013 Sep [cited 2021 Jan 26];47(8):700–5. Available from: https://journals.lww.com/jcge/Abstract/2013/09000/Carbohydrate_Intake_as_a_Risk_Factor_for_Biliary.10.aspx
26. Vilsbøll T, Krarup T, Sonne J, Madsbad S, Vølund A, Juul AG, et al. Incretin Secretion in Relation to Meal Size and Body Weight in Healthy Subjects and People with Type 1 and Type 2 Diabetes Mellitus. *The Journal of Clinical Endocrinology & Metabolism* [Internet]. 2003;88(6):2706–13. Available from: <https://academic.oup.com/jcem/article-lookup/doi/10.1210/jc.2002-021873>
27. Alsalim W, Omar B, Pacini G, Bizzotto R, Mari A, Ahrén B. Incretin and Islet Hormone Responses to Meals of Increasing Size in Healthy Subjects. *The Journal of Clinical Endocrinology & Metabolism* [Internet]. 2015 [cited 2016 Sep 29];100(2):561–8. Available from: <http://press.endocrine.org/doi/abs/10.1210/jc.2014-2865>
28. Koopman KE, Caan MWA, Nederveen AJ, Pels A, Ackermans MT, Fliers E, et al. Hypercaloric diets with increased meal frequency, but not meal size, increase intrahepatic triglycerides: A randomized controlled trial. *Hepatology* [Internet]. 2014;60(2):545–53. Available from: <http://onlinelibrary.wiley.com/doi/10.1002/hep.27149/full>
29. Shukla AP, Dickison M, Coughlin N, Karan A, Mauer E, Troung W, et al. The impact of food

- order on postprandial glycemic excursions in prediabetes. *Diabetes, Obesity and Metabolism* [Internet]. 2018; Available from: <https://onlinelibrary.wiley.com/doi/pdf/10.1111/dom.13503>
30. Kokkinos A, Roux L, W C, Alexiadou K, Tentolouris N, Vincent RP, et al. Eating Slowly Increases the Postprandial Response of the Anorexigenic Gut Hormones, Peptide YY and Glucagon-Like Peptide-1. *J Clin Endocrinol Metab* [Internet]. 2010 Jan 1 [cited 2018 May 15];95(1):333–7. Available from: <https://academic.oup.com/jcem/article/95/1/333/2835331>
 31. Rigamonti AE, Agosti F, Compri E, Giunta M, Marazzi N, Muller EE, et al. Anorexigenic postprandial responses of PYY and GLP1 to slow ice cream consumption: preservation in obese adolescents, but not in obese adults. *Eur J Endocrinol* [Internet]. 2013 Mar 1 [cited 2018 May 22];168(3):429–36. Available from: <http://www.eje-online.org/content/168/3/429>
 32. Llewellyn CH, Jaarsveld V, Hm C, Boniface D, Carnell S, Wardle J. Eating rate is a heritable phenotype related to weight in children. *Am J Clin Nutr* [Internet]. 2008 Dec 1 [cited 2018 May 22];88(6):1560–6. Available from: <https://academic.oup.com/ajcn/article/88/6/1560/4617115>
 33. Figure 1.1, Chapter 1. In “Sweeteners and Sugar Alternatives in Food Technology”, 2nd Edition Kay O’Donnell (Editor), Malcolm Kearsley (Editor) ISBN: 978-1-118-37397-2; July 2012, Wiley-Blackwell. Available from: <https://onlinelibrary.wiley.com/doi/book/10.1002/9781118373941>
 34. Gross LS, Li L, Ford ES, Liu S. Increased consumption of refined carbohydrates and the epidemic of type 2 diabetes in the United States: an ecologic assessment. *The American journal of clinical nutrition* [Internet]. 2004 [cited 2017 Aug 17];79(5):774–9. Available from: <https://academic.oup.com/ajcn/article/79/5/774/4690186>
 35. Scazzina F, Siebenhandl-Ehn S, Pellegrini N. The effect of dietary fibre on reducing the glycaemic index of bread. *British Journal of Nutrition* [Internet]. 2013;109(07):1163–74. Available from: <https://www.cambridge.org/core/journals/british-journal-of-nutrition/article/effect-of-dietary-fibre-on-reducing-the-glycaemic-index-of-bread/A6392B75D4FEDF672DA51CD35BE68BA7/core-reader>
 36. Nguyen NQ, Debreceni TL, Bambrick JE, Chia B, Wishart J, Deane AM, et al. Accelerated Intestinal Glucose Absorption in Morbidly Obese Humans: Relationship to Glucose Transporters, Incretin Hormones, and Glycemia. *The Journal of Clinical Endocrinology & Metabolism* [Internet]. 2015;100(3):968–76. Available from: <https://academic.oup.com/jcem/article-lookup/doi/10.1210/jc.2014-3144>
 37. Lomenick JP, Melguizo MS, Mitchell SL, Summar ML, Anderson JW. Effects of Meals High in Carbohydrate, Protein, and Fat on Ghrelin and Peptide YY Secretion in Prepubertal Children. *The Journal of Clinical Endocrinology & Metabolism* [Internet]. 2009 [cited 2017 Aug 17];94(11):4463–71. Available from: <https://academic.oup.com/jcem/article-lookup/doi/10.1210/jc.2009-0949>
 38. Rizi EP, Loh TP, Baig S, Chhay V, Huang S, Quek JC, et al. A high carbohydrate, but not fat or

- protein meal attenuates postprandial ghrelin, PYY and GLP-1 responses in Chinese men. PLOS ONE [Internet]. 2018 Jan 31 [cited 2018 Apr 19];13(1):e0191609. Available from: <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0191609>
39. Shukla AP, Mauer E, Igel LI, Truong W, Casper A, Kumar RB, et al. Effect of Food Order on Ghrelin Suppression. Diabetes Care [Internet]. 2018;dc172244. Available from: <http://care.diabetesjournals.org/content/early/2018/02/22/dc17-2244>
40. Hägele FA, Büsing F, Nas A, Aschoff J, Gnädinger L, Schweiggert R, et al. High orange juice consumption with or in-between three meals a day differently affects energy balance in healthy subjects. Nutrition & Diabetes [Internet]. 2018;8(1). Available from: <https://www.nature.com/articles/s41387-018-0031-3>
41. García-Martínez JM, Chocarro-Calvo A, De la Vieja A, García-Jiménez C. Insulin drives glucose-dependent insulinotropic peptide expression via glucose-dependent regulation of FoxO1 and LEF1/β-catenin. Biochimica et Biophysica Acta (BBA) - Gene Regulatory Mechanisms [Internet]. 2014 Nov 1 [cited 2018 Jan 4];1839(11):1141–50. Available from: <http://www.sciencedirect.com/science/article/pii/S1874939914002089>
42. Moran-Ramos S, Tovar AR, Torres N. Diet: Friend or Foe of Enteroendocrine Cells--How It Interacts with Enteroendocrine Cells. Advances in Nutrition: An International Review Journal [Internet]. 2012;3(1):8–20. Available from: <http://advances.nutrition.org/content/3/1/8.full>
43. Nyholm B, Walker M, Gravholt CH, Shearing PA, Sturis J, Alberti KGMM, et al. Twenty-four-hour insulin secretion rates, circulating concentrations of fuel substrates and gut incretin hormones in healthy offspring of Type II (non-insulin-dependent) diabetic parents: evidence of several aberrations. Diabetologia [Internet]. 1999 Oct 1 [cited 2018 Apr 20];42(11):1314–23. Available from: <https://link.springer.com/article/10.1007/s001250051444>
44. Pfeiffer AFH, Keyhani-Nejad F. High Glycemic Index Metabolic Damage – a Pivotal Role of GIP and GLP-1. Trends in Endocrinology & Metabolism [Internet]. 2018; Available from: [https://www.cell.com/trends/endocrinology-metabolism/fulltext/S1043-2760\(18\)30046-8](https://www.cell.com/trends/endocrinology-metabolism/fulltext/S1043-2760(18)30046-8)
45. Collier G, O'Dea K. The effect of coingestion of fat on the glucose, insulin, and gastric inhibitory polypeptide responses to carbohydrate and protein. Am J Clin Nutr [Internet]. 1983 Jun 1 [cited 2018 Feb 8];37(6):941–4. Available from: <https://academic.oup.com/ajcn/article/37/6/941/4690802>
46. Cavin J-B, Bado A, Le Gall M. Intestinal Adaptations after Bariatric Surgery: Consequences on Glucose Homeostasis. Trends in Endocrinology & Metabolism [Internet]. 2017 May [cited 2017 Oct 10];28(5):354–64. Available from: <http://linkinghub.elsevier.com/retrieve/pii/S1043276017300061>
47. Xiong S-W, Cao J, Liu X-M, Deng X-M, Liu Z, Zhang F-T. Effect of Modified Roux-en-Y Gastric Bypass Surgery on GLP-1, GIP in Patients with Type 2 Diabetes Mellitus. Gastroenterology Research and Practice [Internet]. 2015;2015:1–4. Available from: <https://www.hindawi.com/journals/grp/2015/625196/>

48. Karlsson C, Wallenius K, Walentinsson A, Greasley PJ, Miliotis T, Hammar M, et al. Identification of proteins associated with the early restoration of insulin sensitivity after biliopancreatic diversion. *The Journal of Clinical Endocrinology & Metabolism* [Internet]. 2020; Available from: <https://academic.oup.com/jcem/advance-article/doi/10.1210/clinem/dgaa558/5896394>
49. Subramaniam R, Aliakbarian H, Bhutta HY, Harris DA, Tavakkoli A, Sheu EG. Sleeve Gastrectomy and Roux-en-Y Gastric Bypass Attenuate Pro-inflammatory Small Intestinal Cytokine Signatures. *Obesity Surgery* [Internet]. 2019; Available from: <https://link.springer.com/article/10.1007/s11695-019-04059-0>
50. Xia J, He Q, He M, Xu G, Tang Y, Ren Y. Residual Gastric Dilatation Interferes with Metabolic Improvements Following Sleeve Gastrectomy by Upregulating the Expression of Sodium-Glucose Cotransporter-1. *Obesity Surgery* [Internet]. 2019; Available from: <https://link.springer.com/article/10.1007/s11695-019-03997-z>
51. Salinari S, Bertuzzi A, Asnaghi S, Guidone C, Manco M, Mingrone G. First-Phase Insulin Secretion Restoration and Differential Response to Glucose Load Depending on the Route of Administration in Type 2 Diabetic Subjects After Bariatric Surgery. *Diabetes Care* [Internet]. 2009 Mar 1 [cited 2016 Sep 27];32(3):375–80. Available from: <http://care.diabetesjournals.org/cgi/doi/10.2337/dc08-1314>
52. Jirapinyo P, Haas AV, Thompson CC. Effect of the Duodenal-Jejunal Bypass Liner on Glycemic Control in Patients With Type 2 Diabetes With Obesity: A Meta-analysis With Secondary Analysis on Weight Loss and Hormonal Changes. *Diabetes Care* [Internet]. 2018 May 1 [cited 2018 May 3];41(5):1106–15. Available from: <http://care.diabetesjournals.org/content/41/5/1106>
53. Narita T, Yokoyama H, Yamashita R, Sato T, Hosoba M, Morii T, et al. Comparisons of the effects of 12-week administration of miglitol and voglibose on the responses of plasma incretins after a mixed meal in Japanese type 2 diabetic patients. *Diabetes, Obesity and Metabolism* [Internet]. 2012 [cited 2017 Mar 4];14(3):283–7. Available from: <http://onlinelibrary.wiley.com/doi/10.1111/j.1463-1326.2011.01526.x/abstract>
54. Dobbins RL, Greenway FL, Chen L, Liu Y, Breed SL, Andrews SM, et al. Selective sodium-dependent glucose transporter 1 inhibitors block glucose absorption and impair glucose-dependent insulinotropic peptide release. *American Journal of Physiology-Gastrointestinal and Liver Physiology* [Internet]. 2015;308(11):G946–54. Available from: <https://www.physiology.org/doi/full/10.1152/ajpgi.00286.2014>
55. Ombra MN, d'Acierno A, Nazzaro F, Spigno P, Riccardi R, Zaccardelli M, et al. Alpha-amylase, α -glucosidase and lipase inhibiting activities of polyphenol-rich extracts from six common bean cultivars of Southern Italy, before and after cooking. *International Journal of Food Sciences and Nutrition* [Internet]. 2018 Oct 3 [cited 2019 Aug 1];69(7):824–34. Available from: <https://www.tandfonline.com/doi/full/10.1080/09637486.2017.1418845>
56. Li T, Yang J, Zhang H, Xie Y, Jin J. Bifidobacterium isolated from breastfed infant faeces have preventative effects against high-fat diet-induced glucose tolerance impairment, mediated by

- the modulation of glucose utilization, absorption, and transport and the incretin hormone secretion axis. *Journal of the Science of Food and Agriculture* [Internet]. 2020 [cited 2020 Mar 3];n/a(n/a). Available from: <https://onlinelibrary.wiley.com/doi/abs/10.1002/jsfa.10360>
57. Notari L, Riera DC, Sun R, Bohl JA, McLean LP, Madden KB, et al. Role of Macrophages in the Altered Epithelial Function during a Type 2 Immune Response Induced by Enteric Nematode Infection. *PLoS ONE* [Internet]. 2014;9(1):e84763. Available from: <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0084763>
58. Butts M, Singh S, Haynes J, Arthur S, Sundaram U. Moderate Alcohol Consumption Uniquely Regulates Sodium-Dependent Glucose Co-Transport in Rat Intestinal Epithelial Cells In Vitro and In Vivo. *The Journal of Nutrition* [Internet]. 2019; Available from: <https://academic.oup.com/jn/advance-article-abstract/doi/10.1093/jn/nxz277/5643942>
59. Seidelmann SB, Feofanova E, Yu B, Franceschini N, Claggett B, Kuokkanen M, et al. Genetic Variants in SGLT1, Glucose Tolerance, and Cardiometabolic Risk. *Journal of the American College of Cardiology* [Internet]. 2018 Oct 9 [cited 2018 Oct 8];72(15):1763–73. Available from: <https://www.sciencedirect.com/science/article/pii/S0735109718369225>
60. Nakayama K, Watanabe K, Boonvisut S, Makishima S, Miyashita H, Iwamoto S. Common variants of GIP are associated with visceral fat accumulation in Japanese adults. *American Journal of Physiology-Gastrointestinal and Liver Physiology* [Internet]. 2014;307(11):G1108–14. Available from: <https://www.physiology.org/doi/full/10.1152/ajpgi.00282.2014>