Rachel Batterham

List of Publications by Year
in descending order

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110 papers	18,217 citations	34016 52 h-index	29081 104 g-index
114 all docs	114 docs citations	114 times ranked	16563 citing authors

#	Article	IF	Citations
1	Gut hormone PYY3-36 physiologically inhibits food intake. Nature, 2002, 418, 650-654.	13.7	2,039
2	Inhibition of Food Intake in Obese Subjects by Peptide YY3â€“36. New England Journal of Medicine, 2003, 349, 941-948.	13.9	1,423
3	Once-Weekly Semaglutide in Adults with Overweight or Obesity. New England Journal of Medicine, 2021, 384, 989-1002.	13.9	1,374
4	Ghrelin Causes Hyperphagia and Obesity in Rats. Diabetes, 2001, 50, 2540-2547.	0.3	993
5	Gut Hormone Profiles Following Bariatric Surgery Favor an Anorectic State, Facilitate Weight Loss, and Improve Metabolic Parameters. Annals of Surgery, 2006, 243, 108-114.	2.1	861
6	Ghrelin. Molecular Metabolism, 2015, 4, 437-460.	3.0	810
7	Epigenome-wide association study of body mass index, and the adverse outcomes of adiposity. Nature, 2017, 541, 81-86.	13.7	743
8	Critical role for peptide YY in protein-mediated satiation and body-weight regulation. Cell Metabolism, 2006, 4, 223-233.	7.2	501
9	Evidence for lifespan extension and delayed ageâ€“related biomarkers in insulin receptor substrate 1 null mice. FASEB Journal, 2008, 22, 807-818.	0.2	487
10	Joint international consensus statement for ending stigma of obesity. Nature Medicine, 2020, 26, 485-497.	15.2	468
11	Attenuated Peptide YY Release in Obese Subjects Is Associated with Reduced Satiety. Endocrinology, 2006, 147, 3-8.	1.4	466
12	AMPK is essential for energy homeostasis regulation and glucose sensing by POMC and AgRP neurons. Journal of Clinical Investigation, 2007, 117, 2325-2336.	3.9	445
13	Pancreatic Polypeptide Reduces Appetite and Food Intake in Humans. Journal of Clinical Endocrinology and Metabolism, 2003, 88, 3989-3992.	1.8	427
14	PYY modulation of cortical and hypothalamic brain areas predicts feeding behaviour in humans. Nature, 2007, 450, 106-109.	13.7	413
15	Oxyntomodulin Suppresses Appetite and Reduces Food Intake in Humans. Journal of Clinical Endocrinology and Metabolism, 2003, 88, 4696-4701.	1.8	406
16	A link between FTO, ghrelin, and impaired brain food-cue responsivity. Journal of Clinical Investigation, 2013, 123, 3539-3551.	3.9	307
17	Mechanisms of Diabetes Improvement Following Bariatric/Metabolic Surgery. Diabetes Care, 2016, 39, 893-901.	4.3	295
18	Peripheral Oxyntomodulin Reduces Food Intake and Body Weight Gain in Rats. Endocrinology, 2004, 145, 2687-2695.	1.4	285

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19	The Gut Hormone Peptide YY Regulates Appetite. Annals of the New York Academy of Sciences, 2003, 994, 162-168.	1.8	268
20	Influence of resistance and aerobic exercise on hunger, circulating levels of acylated ghrelin, and peptide YY in healthy males. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R29-R35.	0.9	241
21	Differential Effects of Laparoscopic Sleeve Gastrectomy and Laparoscopic Gastric Bypass on Appetite, Circulating Acyl-ghrelin, Peptide YY3-36 and Active GLP-1 Levels in Non-diabetic Humans. Obesity Surgery, 2014, 24, 241-252.	1.1	222
22	The role of peptide YY in appetite regulation and obesity. Journal of Physiology, 2009, 587, 19-25.	1.3	221
23	The role of insulin receptor substrate 2 in hypothalamic and Î² cell function. Journal of Clinical Investigation, 2005, 115, 940-950.	3.9	209
24	The role of gut hormones in the regulation of body weight and energy homeostasis. Molecular and Cellular Endocrinology, 2010, 316, 120-128.	1.6	174
25	Weight regain and cardiometabolic effects after withdrawal of semaglutide: The <scp>STEP</scp> 1 trial extension. Diabetes, Obesity and Metabolism, 2022, 24, 1553-1564.	2.2	151
26	Dominant Role of the p110Î² Isoform of PI3K over p110Î± in Energy Homeostasis Regulation by POMC and AgRP Neurons. Cell Metabolism, 2009, 10, 343-354.	7.2	149
27	Mechanisms underlying the weight loss effects of RYGB and SG: similar, yet different. Journal of Endocrinological Investigation, 2019, 42, 117-128.	1.8	139
28	Bariatric and metabolic surgery during and after the COVID-19 pandemic: DSS recommendations for management of surgical candidates and postoperative patients and prioritisation of access to surgery. Lancet Diabetes and Endocrinology,the, 2020, 8, 640-648.	5.5	139
29	Weight Loss Decreases Excess Pancreatic Triacylglycerol Specifically in Type 2 Diabetes. Diabetes Care, 2016, 39, 158-165.	4.3	135
30	British Obesity and Metabolic Surgery Society Guidelines on perioperative and postoperative biochemical monitoring and micronutrient replacement for patients undergoing bariatric surgeryâ€"2020 update. Obesity Reviews, 2020, 21, e13087.	3.1	134
31	Diet and Gastrointestinal Bypassâ€"Induced Weight Loss. Diabetes, 2011, 60, 810-818.	0.3	132
32	Acute and Chronic Effects of Exercise on Appetite, Energy Intake, and Appetite-Related Hormones: The Modulating Effect of Adiposity, Sex, and Habitual Physical Activity. Nutrients, 2018, 10, 1140.	1.7	123
33	Differential Acylated Ghrelin, Peptide YY3â€"36, Appetite, and Food Intake Responses to Equivalent Energy Deficits Created by Exercise and Food Restriction. Journal of Clinical Endocrinology and Metabolism, 2011, 96, 1114-1121.	1.8	121
34	Bariatric Surgery in the United Kingdom: A Cohort Study of Weight Loss and Clinical Outcomes in Routine Clinical Care. PLoS Medicine, 2015, 12, e1001925.	3.9	121
35	Gut hormones: Implications for the treatment of obesity. , 2009, 124, 44-56.		118
36	Early postoperative weight loss predicts maximal weight loss after sleeve gastrectomy and Roux-en-Y gastric bypass. Surgical Endoscopy and Other Interventional Techniques, 2015, 29, 1484-1491.	1.3	108

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37	The Role of Gut Hormone Peptide YY in Energy and Glucose Homeostasis: Twelve Years On. Annual Review of Physiology, 2014, 76, 585-608.	5.6	104
38	Mechanisms facilitating weight loss and resolution of type 2 diabetes following bariatric surgery. Trends in Endocrinology and Metabolism, 2010, 21, 337-344.	3.1	100
39	Adjunctive liraglutide treatment in patients with persistent or recurrent type 2 diabetes after metabolic surgery (GRAVITAS): a randomised, double-blind, placebo-controlled trial. Lancet Diabetes and Endocrinology,the, 2019, 7, 549-559.	5.5	100
40	Biological control of appetite: A daunting complexity. Obesity, 2017, 25, S8-S16.	1.5	94
41	Obesity Management Task Force of the European Association for the Study of Obesity Released â€œPractical Recommendations for the Post-Bariatric Surgery Medical Managementâ€. Obesity Surgery, 2018, 28, 2117-2121.	1.1	89
42	Roux-en-Y gastric bypass and laparoscopic sleeve gastrectomy: understanding weight loss and improvements in type 2 diabetes after bariatric surgery. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 301, R15-R27.	0.9	84
43	The Role of Diet Quality in Mediating the Association between Ultra-Processed Food Intake, Obesity and Health-Related Outcomes: A Review of Prospective Cohort Studies. Nutrients, 2022, 14, 23.	1.7	81
44	The Importance of the Gastrointestinal Tract in Controlling Food Intake and Regulating Energy Balance. Gastroenterology, 2017, 152, 1707-1717.e2.	0.6	77
45	Metabolic State Alters Economic Decision Making under Risk in Humans. PLoS ONE, 2010, 5, e11090.	1.1	76
46	Subject Standardization, Acclimatization, and Sample Processing Affect Gut Hormone Levels and Appetite in Humans. Gastroenterology, 2009, 136, 2115-2126.	0.6	75
47	Type 2 diabetes remission 2 years post Rouxâ€enâ€Y gastric bypass and sleeve gastrectomy: the role of the weight loss and comparison of DiaRem and DiaBetter scores. Diabetic Medicine, 2018, 35, 360-367.	1.2	75
48	Once-weekly cagrilintide for weight management in people with overweight and obesity: a multicentre, randomised, double-blind, placebo-controlled and active-controlled, dose-finding phase 2 trial. Lancet, The, 2021, 398, 2160-2172.	6.3	74
49	Reported appetite, taste and smell changes following Roux-en-Y gastric bypass and sleeve gastrectomy: Effect of gender, type 2 diabetes and relationship to post-operative weight loss. Appetite, 2016, 107, 93-105.	1.8	73
50	Appetite, energy intake, and PYY_{3â€“36} responses to energy-matched continuous exercise and submaximal high-intensity exercise. Applied Physiology, Nutrition and Metabolism, 2013, 38, 947-952.	0.9	71
51	Roux-en-Y gastric bypass: effects on feeding behavior and underlying mechanisms. Journal of Clinical Investigation, 2015, 125, 939-948.	3.9	71
52	Influence of rest and exercise at a simulated altitude of 4,000 m on appetite, energy intake, and plasma concentrations of acylated ghrelin and peptide YY. Journal of Applied Physiology, 2012, 112, 552-559.	1.2	67
53	Seroprevalence of SARS-CoV-2 antibodies in people with an acute loss in their sense of smell and/or taste in a community-based population in London, UK: An observational cohort study. PLoS Medicine, 2020, 17, e1003358.	3.9	56
54	Peripheral activation of the Y2-receptor promotes secretion of GLP-1 and improves glucose tolerance. Molecular Metabolism, 2013, 2, 142-152.	3.0	54

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55	Calorie restriction and not glucagonâ€like peptideâ€1 explains the acute improvement in glucose control after gastric bypass in Type 2 diabetes. Diabetic Medicine, 2016, 33, 1723-1731.	1.2	50
56	Deletion of Lkb1 in Pro-Opiomelanocortin Neurons Impairs Peripheral Glucose Homeostasis in Mice. Diabetes, 2011, 60, 735-745.	0.3	48
57	Mechanisms of weight regain.. European Journal of Internal Medicine, 2021, 93, 3-7.	1.0	48
58	Negative impact of the first COVID-19 lockdown upon health-related behaviours and psychological wellbeing in people living with severe and complex obesity in the UK. EClinicalMedicine, 2021, 34, 100796.	3.2	48
59	Obesity, body weight regulation and the brain: insights from fMRI. British Journal of Radiology, 2018, 91, 20170910.	1.0	46
60	Potential mechanisms underlying the effect of bariatric surgery on eating behaviour. Current Opinion in Endocrinology, Diabetes and Obesity, 2018, 25, 3-11.	1.2	45
61	GLP-1: A Mediator of the Beneficial Metabolic Effects of Bariatric Surgery?. Physiology, 2015, 30, 50-62.	1.6	44
62	Appetite and gut peptide responses to exercise and calorie restriction. The effect of modest energy deficits. Appetite, 2014, 81, 52-59.	1.8	43
63	A switch from high-fat to normal diet does not restore sperm quality but prevents metabolic syndrome. Reproduction, 2019, 158, 377-387.	1.1	40
64	Contribution of 32 GWAS-Identified Common Variants to Severe Obesity in European Adults Referred for Bariatric Surgery. PLoS ONE, 2013, 8, e70735.	1.1	39
65	Peptide YY: Food for thought. Physiology and Behavior, 2009, 97, 616-619.	1.0	38
66	Potential Mechanisms Mediating Sustained Weight Loss Following Roux-en-Y Gastric Bypass and Sleeve Gastrectomy. Endocrinology and Metabolism Clinics of North America, 2016, 45, 539-552.	1.2	38
67	Shedding pounds after going under the knife: Metabolic insights from cutting the gut. Nature Medicine, 2012, 18, 668-669.	15.2	37
68	Identifying adults at high-risk for change in weight and BMI in England: a longitudinal, large-scale, population-based cohort study using electronic health records. Lancet Diabetes and Endocrinology,the, 2021, 9, 681-694.	5.5	37
69	Gaining New Insights into Food Reward with Functional Neuroimaging. Forum of Nutrition, 2010, 63, 152-163.	3.7	32
70	Distorted chemosensory perception and female sex associate with persistent smell and/or taste loss in people with SARS-CoV-2 antibodies: a community based cohort study investigating clinical course and resolution of acute smell and/or taste loss in people with and without SARS-CoV-2 antibodies in London, UK. BMC Infectious Diseases, 2021, 21, 221.	1.3	30
71	Bariatric surgery for patients with type 2 diabetes mellitus requiring insulin: Clinical outcome and cost-effectiveness analyses. PLoS Medicine, 2020, 17, e1003228.	3.9	29
72	Does gut hormone PYY3â€“36 decrease food intake in rodents? (reply). Nature, 2004, 430, 3-4.	13.7	28

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73	Diet during early life defines testicular lipid content and sperm quality in adulthood. American Journal of Physiology - Endocrinology and Metabolism, 2020, 319, E1061-E1073.	1.8	28
74	Metformin increases fasting plasma peptide tyrosine tyrosine (PYY) in women with polycystic ovarian syndrome (PCOS). Clinical Endocrinology, 2008, 69, 936-942.	1.2	27
75	Peptide YY. Current Opinion in Endocrinology, Diabetes and Obesity, 2008, 15, 65-72.	1.2	26
76	Feasibility and Impact of a Combined Supervised Exercise and Nutritional-Behavioral Intervention following Bariatric Surgery: A Pilot Study. Journal of Obesity, 2015, 2015, 1-12.	1.1	26
77	The effectiveness of pharmaceutical interventions for obesity: weight loss with orlistat and sibutramine in a United Kingdom populationâ€based cohort. British Journal of Clinical Pharmacology, 2015, 79, 1020-1027.	1.1	25
78	Early Effect of Bariatric Surgery on Urogenital Function in Morbidly Obese Men. Journal of Sexual Medicine, 2017, 14, 205-214.	0.3	24
79	A randomized crossover trial assessing the effects of acute exercise on appetite, circulating ghrelin concentrations, and butyrylcholinesterase activity in normal-weight males with variants of the obesity-linked FTO rs9939609 polymorphism. American Journal of Clinical Nutrition, 2019, 110, 1055-1066.	2.2	22
80	Inheritable testicular metabolic memory of high-fat diet causes transgenerational sperm defects in mice. Scientific Reports, 2021, 11, 9444.	1.6	20
81	Evaluation of a 12-week lifestyle education intervention with or without partial meal replacement in Thai adults with obesity and metabolic syndrome: a randomised trial. Nutrition and Diabetes, 2018, 8, 23.	1.5	18
82	Age- and sex-specific effects on weight loss outcomes in a comparison of sleeve gastrectomy and Roux-en-Y gastric bypass: a retrospective cohort study. BMC Obesity, 2014, 1, 12.	3.1	15
83	Regulation of hindbrainPyyexpression by acute food deprivation, prolonged caloric restriction, and weight loss surgery in mice. American Journal of Physiology - Endocrinology and Metabolism, 2012, 303, E659-E668.	1.8	13
84	The role of gut hormones in the pathogenesis and management of obesity. Current Opinion in Physiology, 2019, 12, 1-11.	0.9	13
85	Enteroendocrine MC4R and Energy Balance: Linking the Long and the Short of It. Cell Metabolism, 2014, 20, 929-931.	7.2	12
86	A pilot study of primary care physiciansâ€™ attitude to weight loss surgery in England: are the young more prejudiced?. Surgery for Obesity and Related Diseases, 2018, 14, 376-380.	1.0	12
87	PYY is a negative regulator of bone mass and strength. Bone, 2019, 127, 427-435.	1.4	12
88	Inherited Metabolic Memory of Highâ€Fat Diet Impairs Testicular Fatty Acid Content and Sperm Parameters. Molecular Nutrition and Food Research, 2022, 66, e2100680.	1.5	12
89	Neural Responsivity to Food Cues in Patients With Unmedicated First-Episode Psychosis. JAMA Network Open, 2019, 2, e186893.	2.8	11
90	The role of gut hormones in obesity. Current Opinion in Endocrine and Metabolic Research, 2019, 4, 4-13.	0.6	11

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91	Differential Pre-mRNA Splicing Regulates Nnat Isoforms in the Hypothalamus after Gastric Bypass Surgery in Mice. PLoS ONE, 2013, 8, e59407.	1.1	11
92	A case of severe anorexia, excessive weight loss and high peptide YY levels after sleeve gastrectomy. Endocrinology, Diabetes and Metabolism Case Reports, 2015, 2015, 150020.	0.2	9
93	Protocol for a 1-year prospective, longitudinal cohort study of patients undergoing Roux-en-Y gastric bypass and sleeve gastrectomy: the BARI-LIFESTYLE observational study. BMJ Open, 2018, 8, e020659.	0.8	9
94	Is Pre-operation Social Connectedness Associated with Weight Loss up to 2ÂYears Post Bariatric Surgery?. Obesity Surgery, 2018, 28, 3524-3530.	1.1	9
95	Testicular â€œInherited Metabolic Memoryâ€•of Ancestral High-Fat Diet Is Associated with Sperm sncRNA Content. Biomedicines, 2022, 10, 909.	1.4	8
96	Evaluation of the Genetic Association Between Adult Obesity and Neuropsychiatric Disease. Diabetes, 2019, 68, 2235-2246.	0.3	7
97	Patients' views and experiences of live supervised teleâ€exercise classes following bariatric surgery during the <scp>COVID</scp>â€19 pandemic: The <scp>BARIâ€LIFESTYLE</scp> qualitative study. Clinical Obesity, 2022, 12, e12499.	1.1	7
98	Weight stigma in healthcare settings is detrimental to health and must be eradicated. Nature Reviews Endocrinology, 2022, 18, 387-388.	4.3	7
99	Long-term effects of bariatric surgery on acute kidney injury: a propensity-matched cohort in the UK Clinical Practice Research Datalink. BMJ Open, 2018, 8, e020371.	0.8	6
100	Social support and trajectories of body mass index and waist to hip ratio from mid-adulthood to old age. Journal of Epidemiology and Community Health, 2019, 73, 111-116.	2.0	6
101	Pharmacological profile of once-weekly injectable semaglutide for chronic weight management. Expert Review of Clinical Pharmacology, 2022, , 1-17.	1.3	5
102	Obesity: when is specialist referral needed?. British Journal of General Practice, 2018, 68, 264-265.	0.7	4
103	No Influence of the Fat Mass and Obesity-Associated Gene rs9939609 Single Nucleotide Polymorphism on Blood Lipids in Young Males. Nutrients, 2020, 12, 3857.	1.7	4
104	PTH-040â€…Endoscopic duodenal mucosal resurfacing in type 2 diabetes â€“ a single centre experience. , 2018, , .		1
105	Switching the focus from weight to health: Canada's adult obesity practice guideline set a new standard for obesity management. EClinicalMedicine, 2021, 31, 100636.	3.2	1
106	Negative Impact of COVID-19 Lockdown Upon Health-Related Behaviours and Psychological Wellbeing in People Living with Severe and Complex Obesity in the UK. SSRN Electronic Journal, 0, , .	0.4	1
107	First Report of One Anastomosis Gastric Bypass Performed in Twins. Obesity Surgery, 2022, 32, 1757.	1.1	1
108	Endocrinology of Fat, Metabolism, and Appetite. , 2005, , 375-390.		0

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109	Efficacy and Safety of Once-Weekly Subcutaneous Semaglutide 2.4 MG in Adults With Overweight or Obesity (STEP 1). Journal of the Endocrine Society, 2021, 5, A10-A10.	0.1	0
110	P-558â€ƒChildhood exposure to high-fat diets changes sperm small RNA content up to two unexposed generations of mice. Human Reproduction, 2022, 37, .	0.4	0