

Hans-Rudolf Berthoud

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

12,946
citations

28736

57
h-index

27587

110
g-index

126
all docs

126
docs citations

126
times ranked

12504
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of body weight: Lessons learned from bariatric surgery. <i>Molecular Metabolism</i> , 2023, 68, 101517.	3.0	17
2	Sympathetic innervation of inguinal white adipose tissue in the mouse. <i>Journal of Comparative Neurology</i> , 2021, 529, 1465-1485.	0.9	30
3	Physiology of Energy Intake in the Weight-Reduced State. <i>Obesity</i> , 2021, 29, S25-S30.	1.5	5
4	IGFBP-2 partly mediates the early metabolic improvements caused by bariatric surgery. <i>Cell Reports Medicine</i> , 2021, 2, 100248.	3.3	18
5	Gut-brain communication and obesity: understanding functions of the vagus nerve. <i>Journal of Clinical Investigation</i> , 2021, 131, .	3.9	43
6	Learning of food preferences: mechanisms and implications for obesity & metabolic diseases. <i>International Journal of Obesity</i> , 2021, 45, 2156-2168.	1.6	36
7	Functional anatomy of the vagus system – Emphasis on the somato-visceral interface. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2021, 236, 102887.	1.4	29
8	Sympathetic innervation of the mouse kidney and liver arising from prevertebral ganglia. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2021, 321, R328-R337.	0.9	12
9	Protein Appetite at the Interface between Nutrient Sensing and Physiological Homeostasis. <i>Nutrients</i> , 2021, 13, 4103.	1.7	11
10	The obesity epidemic in the face of homeostatic body weight regulation: What went wrong and how can it be fixed?. <i>Physiology and Behavior</i> , 2020, 222, 112959.	1.0	31
11	Minimum reporting guidelines and the role of causal inference in functional neuroimaging for obesity research. <i>International Journal of Obesity</i> , 2020, 44, 1633-1635.	1.6	0
12	What Should I Eat and Why? The Environmental, Genetic, and Behavioral Determinants of Food Choice: Summary from a Pennington Scientific Symposium. <i>Obesity</i> , 2020, 28, 1386-1396.	1.5	12
13	FGF21 and the Physiological Regulation of Macronutrient Preference. <i>Endocrinology</i> , 2020, 161, .	1.4	57
14	Vagal mechanisms as neuromodulatory targets for the treatment of metabolic disease. <i>Annals of the New York Academy of Sciences</i> , 2019, 1454, 42-55.	1.8	42
15	Gastric bypass surgery in lean adolescent mice prevents diet-induced obesity later in life. <i>Scientific Reports</i> , 2019, 9, 7881.	1.6	4
16	FGF21 Signals Protein Status to the Brain and Adaptively Regulates Food Choice and Metabolism. <i>Cell Reports</i> , 2019, 27, 2934-2947.e3.	2.9	143
17	Combined loss of GLP-1R and Y2R does not alter progression of high-fat diet-induced obesity or response to RYGB surgery in mice. <i>Molecular Metabolism</i> , 2019, 25, 64-72.	3.0	31
18	The PYY/Y2R-Deficient Mouse Responds Normally to High-Fat Diet and Gastric Bypass Surgery. <i>Nutrients</i> , 2019, 11, 585.	1.7	35

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19	Unlike calorie restriction, Roux-en-Y gastric bypass surgery does not increase hypothalamic AgRP and NPY in mice on a high-fat diet. <i>International Journal of Obesity</i> , 2019, 43, 2143-2150.	1.6	18
20	Obesity. <i>Journal of the American College of Cardiology</i> , 2018, 71, 69-84.	1.2	375
21	Pharmacotherapy for Patients with Obesity. <i>Clinical Chemistry</i> , 2018, 64, 118-129.	1.5	41
22	Genetics-based manipulation of adipose tissue sympathetic innervation. <i>Physiology and Behavior</i> , 2018, 190, 21-27.	1.0	14
23	Effects of Obesity and Gastric Bypass Surgery on Nutrient Sensors, Endocrine Cells, and Mucosal Innervation of the Mouse Colon. <i>Nutrients</i> , 2018, 10, 1529.	1.7	30
24	Roux-en-Y Gastric Bypass Surgery-Induced Weight Loss and Metabolic Improvements Are Similar in TGR5-Deficient and Wildtype Mice. <i>Obesity Surgery</i> , 2018, 28, 3227-3236.	1.1	30
25	Mechanisms Responsible for Metabolic Improvements of Bariatric Surgeries. <i>Diabetes</i> , 2018, 67, 1043-1044.	0.3	7
26	Homeostatic sensing of dietary protein restriction: A case for FGF21. <i>Frontiers in Neuroendocrinology</i> , 2018, 51, 125-131.	2.5	51
27	Preoptic leptin signaling modulates energy balance independent of body temperature regulation. <i>ELife</i> , 2018, 7, .	2.8	28
28	Gut-Brain Cross-Talk in Metabolic Control. <i>Cell</i> , 2017, 168, 758-774.	13.5	218
29	Blaming the Brain for Obesity: Integration of Hedonic and Homeostatic Mechanisms. <i>Gastroenterology</i> , 2017, 152, 1728-1738.	0.6	263
30	RYGB Produces more Sustained Body Weight Loss and Improvement of Glycemic Control Compared with VSG in the Diet-Induced Obese Mouse Model. <i>Obesity Surgery</i> , 2017, 27, 2424-2433.	1.1	39
31	Advances in Obesity: Causes, Consequences, and Therapy. <i>Gastroenterology</i> , 2017, 152, 1635-1637.	0.6	22
32	Hedonics Act in Unison with the Homeostatic System to Unconsciously Control Body Weight. <i>Frontiers in Nutrition</i> , 2016, 3, 6.	1.6	25
33	Body Composition, Food Intake, and Energy Expenditure in a Murine Model of Roux-en-Y Gastric Bypass Surgery. <i>Obesity Surgery</i> , 2016, 26, 2173-2182.	1.1	44
34	Roux-en-Y gastric bypass surgery is effective in fibroblast growth factor-21 deficient mice. <i>Molecular Metabolism</i> , 2016, 5, 1006-1014.	3.0	20
35	Metabolic Responses to Dietary Protein Restriction Require an Increase in FGF21 that Is Delayed by the Absence of GCN2. <i>Cell Reports</i> , 2016, 16, 707-716.	2.9	146
36	Reprogramming of defended body weight after Roux-en-Y gastric bypass surgery in diet-induced obese mice. <i>Obesity</i> , 2016, 24, 654-660.	1.5	34

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37	Sleeve Gastrectomy Does Not Cause Hypertrophy and Reprogramming of Intestinal Glucose Metabolism in Rats. <i>Obesity Surgery</i> , 2015, 25, 1468-1473.	1.1	40
38	Leptin modulates nutrient reward via inhibitory galanin action on orexin neurons. <i>Molecular Metabolism</i> , 2015, 4, 706-717.	3.0	63
39	Neural Control of Energy Expenditure. <i>Handbook of Experimental Pharmacology</i> , 2015, 233, 173-194.	0.9	36
40	Gastric Inhibitory Polypeptide (GIP) Is Selectively Decreased in the Roux-Limb of Dietary Obese Mice after RYGB Surgery. <i>PLoS ONE</i> , 2015, 10, e0134728.	1.1	8
41	Monoclonal Antibody Targeting of Fibroblast Growth Factor Receptor 1c Ameliorates Obesity and Glucose Intolerance via Central Mechanisms. <i>PLoS ONE</i> , 2014, 9, e112109.	1.1	22
42	Vagal Innervation of Intestine Contributes to Weight Loss After Roux-en-Y Gastric Bypass Surgery in Rats. <i>Obesity Surgery</i> , 2014, 24, 2145-2151.	1.1	58
43	Reversible hyperphagia and obesity in rats with gastric bypass by central MC3/4R blockade. <i>Obesity</i> , 2014, 22, 1847-1853.	1.5	17
44	GLP-1 receptor signaling is not required for reduced body weight after RYGB in rodents. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 306, R352-R362.	0.9	157
45	Longitudinal Assessment of Food Intake, Fecal Energy Loss, and Energy Expenditure After Roux-en-Y Gastric Bypass Surgery in High-Fat-Fed Obese Rats. <i>Obesity Surgery</i> , 2013, 23, 531-540.	1.1	37
46	Obesity surgery: happy with less or eternally hungry?. <i>Trends in Endocrinology and Metabolism</i> , 2013, 24, 101-108.	3.1	18
47	Synergy: A Concept in Search of a Definition. <i>Endocrinology</i> , 2013, 154, 3974-3977.	1.4	23
48	Why Does Gastric Bypass Surgery Work?. <i>Science</i> , 2013, 341, 351-352.	6.0	8
49	Development and Verification of a Mouse Model for Roux-en-Y Gastric Bypass Surgery with a Small Gastric Pouch. <i>PLoS ONE</i> , 2013, 8, e52922.	1.1	47
50	Vagal Innervation of the Hepatic Portal Vein and Liver Is Not Necessary for Roux-En-Y Gastric Bypass Surgery-Induced Hypophagia, Weight Loss, and Hypermetabolism. <i>Annals of Surgery</i> , 2012, 255, 294-301.	2.1	56
51	The neurobiology of food intake in an obesogenic environment. <i>Proceedings of the Nutrition Society</i> , 2012, 71, 478-487.	0.4	232
52	Neural and metabolic regulation of macronutrient intake and selection. <i>Proceedings of the Nutrition Society</i> , 2012, 71, 390-400.	0.4	71
53	Modulation of taste responsiveness and food preference by obesity and weight loss. <i>Physiology and Behavior</i> , 2012, 107, 527-532.	1.0	97
54	Food reward in the obese and after weight loss induced by calorie restriction and bariatric surgery. <i>Annals of the New York Academy of Sciences</i> , 2012, 1264, 36-48.	1.8	52

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55	Obesity surgery and gut-brain communication. <i>Physiology and Behavior</i> , 2011, 105, 106-119.	1.0	74
56	Metabolic and hedonic drives in the neural control of appetite: who is the boss?. <i>Current Opinion in Neurobiology</i> , 2011, 21, 888-896.	2.0	388
57	Food reward, hyperphagia, and obesity. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 300, R1266-R1277.	0.9	192
58	Liking and wanting of sweet and oily food stimuli as affected by high-fat diet-induced obesity, weight loss, leptin, and genetic predisposition. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 301, R1267-R1280.	0.9	95
59	High-fat intake induced by mu-opioid activation of the nucleus accumbens is inhibited by Y1R-blockade and MC3/4R-stimulation. <i>Brain Research</i> , 2010, 1350, 131-138.	1.1	32
60	Innervation of skeletal muscle by leptin receptor-containing neurons. <i>Brain Research</i> , 2010, 1345, 146-155.	1.1	15
61	A potential role for hypothalamomedullary POMC projections in leptin-induced suppression of food intake. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 298, R720-R728.	0.9	64
62	Meal-Induced Hormone Responses in a Rat Model of Roux-en-Y Gastric Bypass Surgery. <i>Endocrinology</i> , 2010, 151, 1588-1597.	1.4	134
63	Meal patterns, satiety, and food choice in a rat model of Roux-en-Y gastric bypass surgery. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 297, R1273-R1282.	0.9	155
64	Phenotype of neurons in the nucleus of the solitary tract that express CCK-induced activation of the ERK signaling pathway. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 296, R845-R854.	0.9	36
65	An expanded view of energy homeostasis: Neural integration of metabolic, cognitive, and emotional drives to eat. <i>Physiology and Behavior</i> , 2009, 97, 572-580.	1.0	129
66	Central and Peripheral Regulation of Food Intake and Physical Activity: Pathways and Genes. <i>Obesity</i> , 2008, 16, S11-22.	1.5	257
67	The vagus nerve, food intake and obesity. <i>Regulatory Peptides</i> , 2008, 149, 15-25.	1.9	249
68	The Brain, Appetite, and Obesity. <i>Annual Review of Psychology</i> , 2008, 59, 55-92.	9.9	546
69	Presynaptic Melanocortin-4 Receptors on Vagal Afferent Fibers Modulate the Excitability of Rat Nucleus Tractus Solitarius Neurons. <i>Journal of Neuroscience</i> , 2008, 28, 4957-4966.	1.7	88
70	Paying the Price for Eating Ice Cream: Is Excessive GLP-1 Signaling in the Brain the Culprit?. <i>Endocrinology</i> , 2008, 149, 4765-4767.	1.4	5
71	Orexin Signaling in the Ventral Tegmental Area Is Required for High-Fat Appetite Induced by Opioid Stimulation of the Nucleus Accumbens. <i>Journal of Neuroscience</i> , 2007, 27, 11075-11082.	1.7	223
72	Monoclonal antibody antagonists of hypothalamic FGFR1 cause potent but reversible hypophagia and weight loss in rodents and monkeys. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E964-E976.	1.8	87

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73	Interactions between the "cognitive" and "metabolic" brain in the control of food intake. <i>Physiology and Behavior</i> , 2007, 91, 486-498.	1.0	225
74	Eating for pleasure or calories. <i>Current Opinion in Pharmacology</i> , 2007, 7, 607-612.	1.7	94
75	Brainstem mechanisms integrating gut-derived satiety signals and descending forebrain information in the control of meal size. <i>Physiology and Behavior</i> , 2006, 89, 517-524.	1.0	118
76	Homeostatic and Non-homeostatic Pathways Involved in the Control of Food Intake and Energy Balance. <i>Obesity</i> , 2006, 14, 197S-200S.	1.5	232
77	Stimulation of the vagus nerve attenuates macrophage activation by activating the Jak2-STAT3 signaling pathway. <i>Nature Immunology</i> , 2005, 6, 844-851.	7.0	1,009
78	Orexin-A projections to the caudal medulla and orexin-induced c-Fos expression, food intake, and autonomic function. <i>Journal of Comparative Neurology</i> , 2005, 485, 127-142.	0.9	126
79	Orexin inputs to caudal raphe neurons involved in thermal, cardiovascular, and gastrointestinal regulation. <i>Histochemistry and Cell Biology</i> , 2005, 123, 147-156.	0.8	108
80	Brain stem melanocortinergic modulation of meal size and identification of hypothalamic POMC projections. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 289, R247-R258.	0.9	156
81	Melanocortinergic Modulation of Cholecystokinin-Induced Suppression of Feeding through Extracellular Signal-Regulated Kinase Signaling in Rat Solitary Nucleus. <i>Endocrinology</i> , 2005, 146, 3739-3747.	1.4	124
82	The Caudal Brainstem and the Control of Food Intake and Energy Balance. , 2004, , 195-240.		20
83	Extracellular Signal-Regulated Kinase 1/2 Signaling Pathway in Solitary Nucleus Mediates Cholecystokinin-Induced Suppression of Food Intake in Rats. <i>Journal of Neuroscience</i> , 2004, 24, 10240-10247.	1.7	72
84	Anatomy and function of sensory hepatic nerves. <i>The Anatomical Record</i> , 2004, 280A, 827-835.	2.3	160
85	Mind versus metabolism in the control of food intake and energy balance. <i>Physiology and Behavior</i> , 2004, 81, 781-793.	1.0	213
86	Neural control of appetite: cross-talk between homeostatic and non-homeostatic systems. <i>Appetite</i> , 2004, 43, 315-317.	1.8	153
87	Vanilloid receptor (VR1) expression in vagal afferent neurons innervating the gastrointestinal tract. <i>Cell and Tissue Research</i> , 2003, 311, 277-287.	1.5	140
88	Appetite-inducing accumbens manipulation activates hypothalamic orexin neurons and inhibits POMC neurons. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2003, 284, R1436-R1444.	0.9	120
89	Neural systems controlling food intake and energy balance in the modern world. <i>Current Opinion in Clinical Nutrition and Metabolic Care</i> , 2003, 6, 615-620.	1.3	32
90	Gastric distension induces c-Fos in medullary GLP-1/2-containing neurons. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2003, 285, R470-R478.	0.9	175

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91	Neurochemical control and reconfiguration of the medullary network controlling different oromotor behaviors. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2003, 285, R19-R20.	0.9	3
92	Orexins in rat dorsal motor nucleus of the vagus potently stimulate gastric motor function. <i>American Journal of Physiology - Renal Physiology</i> , 2002, 283, G465-G472.	1.6	68
93	Behavioral analysis of anorexia produced by hindbrain injections of AMPA receptor antagonist NBQX in rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2002, 282, R147-R155.	0.9	16
94	CART in the dorsal vagal complex: sources of immunoreactivity and effects on Fos expression and food intake. <i>Brain Research</i> , 2002, 957, 298-310.	1.1	58
95	Vagal afferents innervating the gastrointestinal tract and CCKA-receptor immunoreactivity. <i>The Anatomical Record</i> , 2002, 266, 10-20.	2.3	58
96	Multiple neural systems controlling food intake and body weight. <i>Neuroscience and Biobehavioral Reviews</i> , 2002, 26, 393-428.	2.9	614
97	Vagal and spinal mechanosensors in the rat stomach and colon have multiple receptive fields. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001, 280, R1371-R1381.	0.9	83
98	Immunohistochemical identification of cholecystokinin A receptors on interstitial cells of Cajal, smooth muscle, and enteric neurons in rat pylorus. <i>Cell and Tissue Research</i> , 2001, 305, 11-23.	1.5	56
99	Vagal-enteric interface: Vagal activation-induced expression of c-Fos and p-CREB in neurons of the upper gastrointestinal tract and pancreas. <i>The Anatomical Record</i> , 2001, 262, 29-40.	2.3	39
100	Fourth ventricular injection of CART peptide inhibits short-term sucrose intake in rats. <i>Brain Research</i> , 2001, 896, 153-156.	1.1	49
101	Food-related gastrointestinal signals activate caudal brainstem neurons expressing both NMDA and AMPA receptors. <i>Brain Research</i> , 2001, 915, 143-154.	1.1	56
102	Additive satiety-delaying effects of capsaicin-induced visceral deafferentation and NMDA receptor blockade suggest separate pathways. <i>Pharmacology Biochemistry and Behavior</i> , 2000, 67, 371-375.	1.3	9
103	Capsaicin-treated rats permanently overingest low- but not high-concentration sucrose solutions. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000, 279, R1805-R1812.	0.9	25
104	Functional vagal input to gastric myenteric plexus as assessed by vagal stimulation-induced Fos expression. <i>American Journal of Physiology - Renal Physiology</i> , 2000, 279, G73-G81.	1.6	31
105	Functional and chemical anatomy of the afferent vagal system. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2000, 85, 1-17.	1.4	953
106	Functional vagal input to chemically identified neurons in pancreatic ganglia as revealed by Fos expression. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 1999, 277, E958-E964.	1.8	21
107	An Overview of Neural Pathways and Networks Involved in the Control of Food Intake and Selection. , 1999, , .		11
108	Neural and Metabolic Control of Macronutrient Selection. , 1999, , .		4

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109	Vagal and spinal afferent innervation of the rat esophagus: A combined retrograde tracing and immunocytochemical study with special emphasis on calcium-binding proteins. <i>Journal of Comparative Neurology</i> , 1998, 398, 289-307.	0.9	95
110	Vagal efferent and afferent innervation of the rat esophagus as demonstrated by anterograde Dil and DiA tracing: Focus on myenteric ganglia. <i>Journal of the Autonomic Nervous System</i> , 1998, 70, 92-102.	1.9	88
111	Vagal Afferent Nerve Fibres Contact Mast Cells in Rat Small Intestinal Mucosa. <i>NeuroImmunoModulation</i> , 1997, 4, 266-270.	0.9	113
112	Capsaicin-resistant vagal afferent fibers in the rat gastrointestinal tract: anatomical identification and functional integrity. <i>Brain Research</i> , 1997, 746, 195-206.	1.1	98
113	Innervation of rat abdominal paraganglia by calretinin-like immunoreactive nerve fibers. <i>Neuroscience Letters</i> , 1996, 210, 115-118.	1.0	13
114	Morphological analysis of vagal input to gastrin releasing peptide and vasoactive intestinal peptide containing neurons in the rat glandular stomach. , 1996, 370, 61-70.		36
115	Interaction between parasympathetic and sympathetic nerves in prevertebral ganglia: Morphological evidence for vagal efferent innervation of ganglion cells in the rat. , 1996, 35, 80-86.		83
116	Anatomical demonstration of vagal input to nicotinamide acetamide dinucleotide phosphate diaphorase-positive (nitroergic) neurons in rat fundic stomach. <i>Journal of Comparative Neurology</i> , 1995, 358, 428-439.	0.9	51
117	Vagal sensors in the rat duodenal mucosa: distribution and structure as revealed by in vivo Dil-tracing. <i>Anatomy and Embryology</i> , 1995, 191, 203-12.	1.5	174
118	Vagal innervation of the rat pylorus: an anterograde tracing study using carbocyanine dyes and laser scanning confocal microscopy. <i>Cell and Tissue Research</i> , 1994, 275, 109-123.	1.5	84
119	NADPH-diaphorase-positive nerve fibers associated with motor endplates in the rat esophagus: new evidence for co-innervation of striated muscle by enteric neurons. <i>Cell and Tissue Research</i> , 1994, 276, 23-30.	1.5	111
120	Characterization of vagal innervation to the rat celiac, suprarenal and mesenteric ganglia. <i>Journal of the Autonomic Nervous System</i> , 1993, 42, 153-169.	1.9	151
121	Vagal afferent innervation of the rat fundic stomach: Morphological characterization of the gastric tension receptor. <i>Journal of Comparative Neurology</i> , 1992, 319, 261-276.	0.9	269
122	Morphology and distribution of efferent vagal innervation of rat pancreas as revealed with anterograde transport of Dil. <i>Brain Research</i> , 1991, 553, 336-341.	1.1	59
123	Abdominal pathways and central origin of rat vagal fibers that stimulate gastric acid. <i>Gastroenterology</i> , 1991, 100, 627-637.	0.6	30
124	Simultaneous labeling of vagal innervation of the gut and afferent projections from the visceral forebrain with Dil injected into the dorsal vagal complex in the rat. <i>Journal of Comparative Neurology</i> , 1990, 301, 65-79.	0.9	184
125	Anatomical considerations for surgery of the rat abdominal vagus: distribution, paraganglia and regeneration. <i>Journal of the Autonomic Nervous System</i> , 1983, 9, 79-97.	1.9	58
126	Neurobiology of Nutrition and Obesity. <i>Nutrition Reviews</i> , 0, 65, 517-534.	2.6	46