Gertjan van Dijk

List of Publications by Year in descending order

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Version: 2024-02-01

110 papers	5,442 citations	126858 33 h-index	85498 71 g-index
116 all docs	116 docs citations	116 times ranked	6717 citing authors

#	Article	IF	Citations
1	Stress revisited: A critical evaluation of the stress concept. Neuroscience and Biobehavioral Reviews, 2011, 35, 1291-1301.	2.9	1,124
2	Melanocortin receptors in leptin effects. Nature, 1997, 390, 349-349.	13.7	456
3	The biological control of voluntary exercise, spontaneous physical activity and daily energy expenditure in relation to obesity: human and rodent perspectives. Journal of Experimental Biology, 2011, 214, 206-229.	0.8	365
4	Gut bacterial tyrosine decarboxylases restrict levels of levodopa in the treatment of Parkinsonâ€™s disease. Nature Communications, 2019, 10, 310.	5.8	325
5	Intraventricular Leptin Reduces Food Intake and Body Weight of Lean Rats but Not Obese Zucker Rats. Hormone and Metabolic Research, 1996, 28, 664-668.	0.7	252
6	Inflammation and NF-Î¹B in Alzheimer's Disease and Diabetes. Journal of Alzheimer's Disease, 2009, 16, 809-821.	1.2	157
7	Intraventricular GLP-1 reduces short- but not long-term food intake or body weight in lean and obese rats. Brain Research, 1998, 779, 75-83.	1.1	106
8	Central infusion of melanocortin agonist MTII in rats: assessment of c-Fos expression and taste aversion. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 274, R248-R254.	0.9	105
9	Hypothalamic, Metabolic, and Behavioral Responses to Pharmacological Inhibition of CNS Melanocortin Signaling in Rats. Journal of Neuroscience, 2001, 21, 3639-3645.	1.7	100
10	Central infusion of GLP-1, but not leptin, produces conditioned taste aversions in rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1997, 272, R726-R730.	0.9	99
11	Glucagon-like peptide-1 (7â€“36) amide: a central regulator of satiety and interoceptive stress. Neuropeptides, 1999, 33, 406-414.	0.9	91
12	Behavioral and physiological responses to stress are affected by high-fat feeding in male rats. Physiology and Behavior, 2001, 73, 371-377.	1.0	84
13	Central infusion of glucagon-like peptide-1-(7â€“36) amide (GLP-1) receptor antagonist attenuates lithium chloride-induced c-Fos induction in rat brainstem. Brain Research, 1998, 801, 164-170.	1.1	79
14	Central infusions of leptin and GLP-1-(7-36) amide differentially stimulate c-FLI in the rat brain. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1996, 271, R1096-R1100.	0.9	75
15	The temporal organization of ingestive behaviour and its interaction with regulation of energy balance. Neuroscience and Biobehavioral Reviews, 2002, 26, 485-498.	2.9	75
16	Glucagon-like peptide-1 and satiety. Nature, 1997, 385, 214-214.	13.7	68
17	Agouti-related protein prevents self-starvation. Molecular Psychiatry, 2003, 8, 235-240.	4.1	65
18	Integrative neurobiology of metabolic diseases, neuroinflammation, and neurodegeneration. Frontiers in Neuroscience, 2015, 9, 173.	1.4	64

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19	Hormonal and metabolic effects of paraventricular hypothalamic administration of neuropeptide Y during rest and feeding. Brain Research, 1994, 660, 96-103.	1.1	62
20	The Role of Leptin in the Regulation of Energy Balance and Adiposity. Journal of Neuroendocrinology, 2001, 13, 913-921.	1.2	61
21	Metabolic consequences of chronic sleep restriction in rats: Changes in body weight regulation and energy expenditure. Physiology and Behavior, 2012, 107, 322-328.	1.0	60
22	Ethanol-induced c-Fos expression in rat lines selected for low and high alcohol consumption. Brain Research, 1997, 756, 278-282.	1.1	56
23	Ethanol-Induced c-Fos Expression in Catecholamine- and Neuropeptide Y-Producing Neurons in Rat Brainstem. Alcoholism: Clinical and Experimental Research, 2000, 24, 802-809.	1.4	56
24	Energy Expenditure and Metabolic Changes of Free-Flying Migrating Northern Bald Ibis. PLoS ONE, 2015, 10, e0134433.	1.1	55
25	Home alone: a systematic review and metaâ€analysis on the effects of individual housing on body weight, food intake and visceral fat mass in rodents. Obesity Reviews, 2018, 19, 614-637.	3.1	48
26	Adrenalectomy Alters the Sensitivity of the Central Nervous System Melanocortin System. Diabetes, 2003, 52, 2928-2934.	0.3	47
27	Central leptin stimulates corticosterone secretion at the onset of the dark phase. Diabetes, 1997, 46, 1911-1914.	0.3	43
28	Metabolic and behavioral responses to high-fat feeding in mice selectively bred for high wheel-running activity. International Journal of Obesity, 2008, 32, 1566-1575.	1.6	40
29	Effects of MCH and a MCH1-receptor antagonist on (palatable) food and water intake. Brain Research, 2005, 1062, 32-38.	1.1	39
30	AgRP(83â€“132) and SHU9119 differently affect activity-based anorexia. European Neuropsychopharmacology, 2006, 16, 403-412.	0.3	39
31	A Postnatal Diet Containing Phospholipids, Processed to Yield Large, Phospholipid-Coated Lipid Droplets, Affects Specific Cognitive Behaviors in Healthy Male Mice. Journal of Nutrition, 2016, 146, 1155-1161.	1.3	38
32	The continued need for animals to advance brain research. Neuron, 2021, 109, 2374-2379.	3.8	36
33	Low-Fat Diet With Caloric Restriction Reduces White Matter Microglia Activation During Aging. Frontiers in Molecular Neuroscience, 2018, 11, 65.	1.4	35
34	Effects of macronutrient intake in obesity: a meta-analysis of low-carbohydrate and low-fat diets on markers of the metabolic syndrome. Nutrition Reviews, 2021, 79, 429-444.	2.6	34
35	Plasma Adiponectin is Increased in Mice Selectively Bred for High Wheel-running Activity, but not by Wheel Running per sÃ©. Hormone and Metabolic Research, 2007, 39, 377-383.	0.7	33
36	Neurobiology of the metabolic syndrome: An allostatic perspective. European Journal of Pharmacology, 2008, 585, 137-146.	1.7	33

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37	Doubly Labelled Water analysis: Preparation, memory correction, calibration and quality assurance for Î´²H and Î´¹⁸O measurements over four orders of magnitudes. Rapid Communications in Mass Spectrometry, 2013, 27, 1055-1066.	0.7	33
38	The Role of Supplemental Complex Dietary Carbohydrates and Gut Microbiota in Promoting Cardiometabolic and Immunological Health in Obesity: Lessons from Healthy Non-Obese Individuals. Frontiers in Nutrition, 2017, 4, 34.	1.6	31
39	Runningâ€wheel activity delays mitochondrial respiratory flux decline in aging mouse muscle via a postâ€transcriptional mechanism. Aging Cell, 2018, 17, e12700.	3.0	31
40	Behavioral Traits are Affected by Selective Breeding for Increased Wheel-Running Behavior in Mice. Behavior Genetics, 2010, 40, 542-550.	1.4	30
41	Induction of Brain Region-Specific Forms of Obesity by Agouti. Journal of Neuroscience, 2004, 24, 10176-10181.	1.7	29
42	Glucose homeostasis and sympathoadrenal activity in mercaptoacetate-treated rats. Physiology and Behavior, 1995, 57, 759-764.	1.0	27
43	Full length article. Brain Research, 1997, 777, 147-152.	1.1	27
44	Exercise and the regulation of energy intake. International Journal of Obesity, 1999, 23, S1-S6.	1.6	27
45	Olanzapine causes hypothermia, inactivity, a deranged feeding pattern and weight gain in female Wistar rats. Pharmacology Biochemistry and Behavior, 2010, 97, 163-169.	1.3	27
46	Ethanol-induced c-fos expression in catecholamine- and neuropeptide Y-producing neurons in rat brainstem. Alcoholism: Clinical and Experimental Research, 2000, 24, 802-9.	1.4	27
47	Lifelong dietary intervention does not affect hematopoietic stem cell function. Experimental Hematology, 2017, 53, 26-30.	0.2	26
48	Effects of high-fat diets with different carbohydrate-to-protein ratios on energy homeostasis in rats with impaired brain melanocortin receptor activity. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 289, R156-R163.	0.9	24
49	Dopamine mediation of the feeding response to violations of spatial and temporal expectancies. Behavioural Brain Research, 2001, 122, 193-199.	1.2	22
50	Neuroendocrinology of insulin resistance: metabolic and endocrine aspects of adiposity. European Journal of Pharmacology, 2003, 480, 31-42.	1.7	22
51	Gut bacteria-derived 5-hydroxyindole is a potent stimulant of intestinal motility via its action on L-type calcium channels. PLoS Biology, 2021, 19, e3001070.	2.6	21
52	Time-dependent effects of neuropeptide Y infusion in the paraventricular hypothalamus on ingestive and associated behaviors in rats. Physiology and Behavior, 2003, 79, 575-580.	1.0	20
53	Hydration increases cell metabolism. International Journal of Obesity, 2009, 33, 385-385.	1.6	20
54	Metabolic, gastrointestinal, and CNS neuropeptide effects of brain leptin administration in the rat. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1999, 276, R1425-R1433.	0.9	19

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55	The lateral hypothalamus: A site for integration of nutrient and fluid balance. Behavioural Brain Research, 2011, 221, 481-487.	1.2	19
56	Melanocortin Receptors as Drug Targets for Disorders of Energy Balance. CNS and Neurological Disorders - Drug Targets, 2006, 5, 251-261.	0.8	18
57	Prevalence of hypoglycaemia in a random population after Roux-en-Y gastric bypass after a meal test. Endocrine Connections, 2019, 8, 969-978.	0.8	18
58	Individual variation in the (patho)physiology of energy balance. Physiology and Behavior, 2011, 103, 89-97.	1.0	17
59	Therapeutic potential of deep brain stimulation of the nucleus accumbens in morbid obesity. Neurosurgical Focus, 2018, 45, E10.	1.0	17
60	Inducing Physical Inactivity in Mice: Preventing Climbing and Reducing Cage Size Negatively Affect Physical Fitness and Body Composition. Frontiers in Behavioral Neuroscience, 2019, 13, 221.	1.0	17
61	Low-carbohydrate diets affect energy balance and fuel homeostasis differentially in lean and obese rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2006, 291, R1622-R1629.	0.9	16
62	Coping style predicts the (in)sensitivity for developing hyperinsulinemia on a high fat diet in rats. Physiology and Behavior, 2010, 100, 401-407.	1.0	16
63	Reduced Anorexigenic Efficacy of Leptin, But Not of the Melanocortin Receptor Agonist Melanotan-II, Predicts Diet-Induced Obesity in Rats. Endocrinology, 2005, 146, 5247-5256.	1.4	15
64	A new highâ€quality set of singly (²H) and doubly (²H and ¹⁸O) stable isotope labeled reference waters for biomedical and other isotopeâ€labeled research. Rapid Communications in Mass Spectrometry, 2015, 29, 311-321.	0.7	15
65	Whole-Body Vibration Partially Reverses Aging-Induced Increases in Visceral Adiposity and Hepatic Lipid Storage in Mice. PLoS ONE, 2016, 11, e0149419.	1.1	15
66	Milk lipid composition and structure; The relevance for infant brain development. OCL - Oilseeds and Fats, Crops and Lipids, 2020, 27, 5.	0.6	14
67	Effects of glucagon-like peptide-I on glucose turnover in rats. American Journal of Physiology - Endocrinology and Metabolism, 1996, 270, E1015-E1021.	1.8	13
68	Effects of Repetitive Hypoglycemia on Neuroendocrine Response and Brain Tyrosine Hydroxylase Activity in the Rat. Stress, 2002, 5, 217-226.	0.8	13
69	Long-term self-reported symptom prevalence of early and late dumping in a patient population after sleeve gastrectomy, primary, and revisional gastric bypass surgery. Surgery for Obesity and Related Diseases, 2018, 14, 1173-1181.	1.0	13
70	Individual housing of male C57BL/6J mice after weaning impairs growth and predisposes for obesity. PLoS ONE, 2020, 15, e0225488.	1.1	13
71	Neonatal capsaicin causes compensatory adjustments to energy homeostasis in rats. Physiology and Behavior, 2006, 89, 115-121.	1.0	12
72	Reducing dietary intake of linoleic acid of mouse dams during lactation increases offspring brain n-3 LCPUFA content. Prostaglandins Leukotrienes and Essential Fatty Acids, 2016, 110, 8-15.	1.0	12

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73	A low TSH profile predicts olanzapine-induced weight gain and relief by adjunctive topiramate in healthy male volunteers. Psychoneuroendocrinology, 2016, 66, 101-110.	1.3	12
74	Feeding and temperature responses to intravenous leptin infusion are differential predictors of obesity in rats. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2004, 286, R756-R763.	0.9	11
75	Forced and voluntary exercise counteract insulin resistance in rats: The role of coping style. Hormones and Behavior, 2012, 62, 93-98.	1.0	11
76	Validity of the doubly labeled water method for estimating CO2production in mice under different nutritional conditions. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E317-E324.	1.8	11
77	Influence of peri-arterial hepatic denervation on the glycemic response to exercise in rats. Journal of the Autonomic Nervous System, 1993, 44, 45-52.	1.9	10
78	Contribution of liver nerves, glucagon, and adrenaline to the glycaemic response to exercise in rats. Acta Physiologica Scandinavica, 1994, 150, 305-313.	2.3	10
79	Overfeeding, autonomic regulation and metabolic consequences. Cardiovascular Drugs and Therapy, 1996, 10, 263-273.	1.3	10
80	Roman high and low avoidance rats differ in their response to chronic olanzapine treatment at the level of body weight regulation, glucose homeostasis, and cortico-mesolimbic gene expression. Journal of Psychopharmacology, 2017, 31, 1437-1452.	2.0	10
81	Distinct Effects of Short Chain Fatty Acids on Host Energy Balance and Fuel Homeostasis With Focus on Route of Administration and Host Species. Frontiers in Neuroscience, 2021, 15, 755845.	1.4	10
82	Effects of GLP-1 and 2,5-anhydro-D-mannitol on insulin secretion and plasma glucose in mice. Endocrine Research, 1995, 21, 583-594.	0.6	9
83	Metabolic responses to long-term pharmacological inhibition of CB1-receptor activity in mice in relation to dietary fat composition. International Journal of Obesity, 2010, 34, 374-384.	1.6	9
84	Pharmacological treatment of hyperinsulineamia in rats depends on coping style. European Journal of Pharmacology, 2011, 654, 122-127.	1.7	9
85	Personality, a key factor in personalized medicine?. European Journal of Pharmacology, 2011, 667, 23-25.	1.7	8
86	Deep Brain Stimulation in the Nucleus Accumbens for Binge Eating Disorder: a Study in Rats. Obesity Surgery, 2020, 30, 4145-4148.	1.1	7
87	Diminished Counterregulatory Responses to Meal-Induced Hypoglycemia 4ÂYears After RYGB. Obesity Surgery, 2021, 31, 597-602.	1.1	7
88	Effect of anaesthetizing the region of the paraventricular hypothalamic nuclei on energy metabolism during exercise in the rat. Acta Physiologica Scandinavica, 1994, 151, 165-172.	2.3	6
89	Diet-induced obesity resistance of adult female mice selectively bred for increased wheel-running behavior is reversed by single perinatal exposure to a high-energy diet. Physiology and Behavior, 2016, 157, 246-257.	1.0	6
90	Gestational weight gain by reduced brain melanocortin activity affects offspring energy balance in rats. International Journal of Obesity, 2009, 33, 104-114.	1.6	5

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91	Energy Homeostasis, Autonomic Activity and Obesity. Obesity, 1995, 3, 721S-727S.	4.0	4
92	Effects of selective breeding for increased wheel-running behavior on circadian timing of substrate oxidation and ingestive behavior. Physiology and Behavior, 2010, 99, 549-554.	1.0	4
93	High-saturated fat-sucrose feeding affects lactation energetics in control mice and mice selectively bred for high wheel-running behavior. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2013, 305, R1433-R1440.	0.9	4
94	Total energy expenditure assessed by salivary doubly labelled water analysis and its relevance for shortâ€term energy balance in humans. Rapid Communications in Mass Spectrometry, 2016, 30, 143-150.	0.7	4
95	Early Life Exposure to a Diet With a Supramolecular Lipid Structure Close to That of Mammalian Milk Improves Early Life Growth, Skeletal Development, and Later Life Neurocognitive Function in Individually and Socially Housed Male C57BL/6J Mice. Frontiers in Neuroscience, 2022, 16, 838711.	1.4	4
96	Resistance to diet-induced adiposity in cannabinoid receptor-1 deficient mice is not due to impaired adipocyte function. Nutrition and Metabolism, 2011, 8, 93.	1.3	3
97	Perinatal Polyunstaurated Fatty Acids Supplementation Causes Alterations in Fuel Homeostasis in Adult Male Rats but does not Offer Resistance Against STZ-induced Diabetes. Hormone and Metabolic Research, 2011, 43, 938-943.	0.7	3
98	Ileal Transposition in Rats Reduces Energy Intake, Body Weight, and Body Fat Most Efficaciously When Ingesting a High-Protein Diet. Obesity Surgery, 2020, 30, 2729-2742.	1.1	3
99	Validity of Absolute Intake and Nutrient Density of Protein, Potassium, and Sodium Assessed by Various Dietary Assessment Methods: An Exploratory Study. Nutrients, 2020, 12, 109.	1.7	2
100	Ileal transposition: A non-restrictive bariatric surgical procedure that reduces body fat and increases ingestion-related energy expenditure. Physiology and Behavior, 2020, 219, 112844.	1.0	2
101	Running wheel access fails to resolve impaired sustainable health in mice feeding a high fat sucrose diet. Aging, 2019, 11, 1564-1579.	1.4	2
102	Brain Melanocortin Receptors are Involved In CRH-Mediated HPA Axis Activity And Thermogenesis. Open Neuroendocrinology Journal (Online), 2011, 4, 127-135.	0.4	1
103	First use of triply labelled water analysis for energy expenditure measurements in mice. Scientific Reports, 2022, 12, 6351.	1.6	1
104	PS20 - 95. Antipsychotic drug induced weight gain and insulin resistance: personality as a risk factor. Nederlands Tijdschrift Voor Diabetologie, 2012, 10, 166-167.	0.0	0
105	Reply to Yamada et al.: questions and answers to the validity of the doubly labeled water method in high-fat and sucrose-feeding mice irrespective of obesity proneness. American Journal of Physiology - Endocrinology and Metabolism, 2013, 305, E1181-E1183.	1.8	0
106	Adiposity Signals and Macronutrient Selection. , 1999, , .		0
107	Individual housing of male C57BL/6J mice after weaning impairs growth and predisposes for obesity. , 2020, 15, e0225488.		0
108	Individual housing of male C57BL/6J mice after weaning impairs growth and predisposes for obesity. , 2020, 15, e0225488.		0

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109	Individual housing of male C57BL/6J mice after weaning impairs growth and predisposes for obesity. , 2020, 15, e0225488.		0
110	Individual housing of male C57BL/6J mice after weaning impairs growth and predisposes for obesity. , 2020, 15, e0225488.		0