Dorothy W Gietzen

List of Publications by Citations

62 papers	1,723 citations	24 h-index	39 g-index
62 ext. papers	1,815 ext. citations	4.9 avg, IF	4.31 L-index

#	Paper	IF	Citations
62	Uncharged tRNA and sensing of amino acid deficiency in mammalian piriform cortex. *Science*, **2005**, 307, 1776-8	33.3	257
61	Neural mechanisms in the responses to amino acid deficiency. *Journal of Nutrition*, **1993**, 123, 610-25	4.1	117
60	Mechanisms of food intake repression in indispensable amino acid deficiency. *Annual Review of Nutrition*, **2007**, 27, 63-78	9.9	102
59	Rats rapidly reject diets deficient in essential amino acids. *Journal of Nutrition*, **2003**, 133, 2331-5	4.1	61
58	Neurochemical changes after imbalanced diets suggest a brain circuit mediating anorectic responses to amino acid deficiency in rats. *Journal of Nutrition*, **1998**, 128, 771-81	4.1	61
57	Catecholamine synthesis inhibitors acutely modulate [3H]estradiol binding by specific brain areas and pituitary in ovariectomized rats. *Endocrinology*, **1983**, 113, 855-65	4.8	56
56	Nutritional homeostasis and indispensable amino acid sensing: a new solution to an old puzzle. *Trends in Neurosciences*, **2006**, 29, 91-9	13.3	50
55	Norepinephrine and amino acids in prepyriform cortex of rats fed imbalanced amino acid diets. *Physiology and Behavior*, **1986**, 36, 1071-80	3.5	48
54	Phosphorylation of eIF2alpha is involved in the signaling of indispensable amino acid deficiency in the anterior piriform cortex of the brain in rats. *Journal of Nutrition*, **2004**, 134, 717-23	4.1	48
53	Molecular mechanisms in the brain involved in the anorexia of branched-chain amino acid deficiency. *Journal of Nutrition*, **2001**, 131, 851S-855S	4.1	46
52	Behavioral and neurochemical changes in folate-deficient mice. *Physiology and Behavior*, **1995**, 58, 935-41	3.5	41
51	Detection of amino acid deprivation in the central nervous system. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2013**, 16, 96-101	3.8	36
50	The anterior piriform cortex is sufficient for detecting depletion of an indispensable amino acid, showing independent cortical sensory function. *Journal of Neuroscience*, **2011**, 31, 1583-90	6.6	34
49	Temporal-spatial pattern of c-fos expression in the rat brain in response to indispensable amino acid deficiency. I. The initial recognition phase. *Molecular Brain Research*, **1996**, 40, 27-34		34
48	Serotonergic blockade in the treatment of the cancer anorexia-cachexia syndrome. *Cancer*, **1999**, 86, 684-688	6.4	33
47	Essential amino acid deficiency enhances long-term intake but not short-term licking of the required nutrient. *Journal of Nutrition*, **1999**, 129, 1604-12	4.1	32
46	Protein synthesis in the prepyriform cortex: effects on intake of an amino acid-imbalanced diet by Sprague-Dawley rats. *Journal of Nutrition*, **1991**, 121, 754-61	4.1	32

45	Small changes in essential amino acid concentrations alter diet selection in amino acid-deficient rats. *Journal of Nutrition*, **1997**, 127, 777-84	4.1	31
44	Learned preference for the limiting amino acid in rats fed a threonine-deficient diet. *Physiology and Behavior*, **1992**, 51, 909-14	3.5	30
43	The brain's response to an essential amino acid-deficient diet and the circuitous route to a better meal. *Molecular Neurobiology*, **2012**, 46, 332-48	6.2	27
42	Diets deficient in indispensable amino acids rapidly decrease the concentration of the limiting amino acid in the anterior piriform cortex of rats. *Journal of Nutrition*, **2004**, 134, 2365-71	4.1	27
41	Learned preference and aversion for complete and isoleucine-devoid diets in rats. *Physiology and Behavior*, **1993**, 53, 485-94	3.5	26
40	Fos-positive neurons are increased in the nucleus of the solitary tract and decreased in the ventromedial hypothalamus and amygdala by a high-protein diet in rats. *Journal of Nutrition*, **2005**, 135, 1486-90	4.1	25
39	The rapid anorectic response to a threonine imbalanced diet is decreased by injection of threonine into the anterior piriform cortex of rats. *Nutritional Neuroscience*, **2003**, 6, 247-51	3.6	24
38	Aversion-preference patterns in amino acid- or protein-deficient rats: a comparison with previously reported responses to thiamin-deficient diets. *British Journal of Nutrition*, **1997**, 77, 299-314	3.6	22
37	Role of MAP kinase in signaling indispensable amino acid deficiency in the brain. *Molecular Brain Research*, **2002**, 105, 11-8		21
36	Lysine deficiency alters diet selection without depressing food intake in rats. *Journal of Nutrition*, **1999**, 129, 424-30	4.1	21
35	Anorectic response to amino acid imbalance: a selective serotonin3 effect?. *Pharmacology Biochemistry and Behavior*, **1994**, 47, 59-63	3.9	21
34	NMDA receptor function within the anterior piriform cortex and lateral hypothalamus in rats on the control of intake of amino acid-deficient diets. *Brain Research*, **2004**, 1019, 124-33	3.7	19
33	GABA(A) and GABA(B) receptors in the anterior piriform cortex modulate feeding in rats. *Brain Research*, **2002**, 924, 1-9	3.7	19
32	Timing and dose of amino acids injected into prepyriform cortex influence food intake. *Physiology and Behavior*, **1993**, 53, 899-903	3.5	19
31	Effects of amino acid deficiency on monoamines in the lateral hypothalamus (LH) in rats. *Nutritional Neuroscience*, **2003**, 6, 291-9	3.6	18
30	Temporal-spatial pattern of c-Fos expression in the rat brain in response to indispensable amino acid deficiency. II. The learned taste aversion. *Molecular Brain Research*, **1996**, 40, 35-41		18
29	Evaluation of vitamin B-6 status and function of rats fed excess pyridoxine. *Journal of Nutrition*, **1989**, 119, 1392-8	4.1	17
28	Threonine deprivation rapidly activates the system A amino acid transporter in primary cultures of rat neurons from the essential amino acid sensor in the anterior piriform cortex. *Journal of Nutrition*, **2003**, 133, 2156-64	4.1	16

27	Effects of threonine injections in the lateral hypothalamus on intake of amino acid imbalanced diets in rats. *Brain Research*, **2000**, 879, 65-72	3.7	16
26	Sex differences in [3H]-estradiol binding in brain and pituitary after acute dopaminergic treatment. In vivo studies in the rat. *Neuroendocrinology*, **1986**, 42, 334-43	5.6	15
25	ICS 205-930 and feeding responses to amino acid imbalance: a peripheral effect?. *Pharmacology Biochemistry and Behavior*, **1991**, 40, 83-7	3.9	14
24	Adrenal hormones and the anorectic response and adaptation of rats to amino acid imbalance. *Journal of Nutrition*, **1990**, 120, 1617-23	4.1	14
23	Co-localization of phosphorylated extracellular signal-regulated protein kinases 1/2 (ERK1/2) and phosphorylated eukaryotic initiation factor 2alpha (eIF2alpha) in response to a threonine-devoid diet. *Journal of Comparative Neurology*, **2006**, 494, 485-94	3.4	13
22	Dorsomedial hypothalamic lesions alter intake of an imbalanced amino acid diet in rats. *Journal of Nutrition*, **1998**, 128, 1213-7	4.1	13
21	Amino acid imbalance, a nutritional model: serotonin3 mediation of aversive responses. *Physiology and Behavior*, **1991**, 49, 981-5	3.5	13
20	Differential effects of selective vagotomy and tropisetron in aminoprivic feeding. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2000**, 279, R997-R1009	3.2	12
19	Meal patterns reveal differential effects of vagotomy and tropisetron on responses to indispensable amino acid deficiency in rats. *Journal of Nutrition*, **1996**, 126, 1722-31	4.1	11
18	Threonine-imbalanced diet alters first-meal microstructure in rats. *Physiology and Behavior*, **2004**, 81, 15-21	3.5	10
17	Transfer ribonucleic acid charging in rat brain after consumption of amino acid-imbalanced diets. *Nutritional Neuroscience*, **2002**, 5, 125-30	3.6	10
16	Indispensable Amino Acid-Deficient Diets Induce Seizures in Ketogenic Diet-Fed Rodents, Demonstrating a Role for Amino Acid Balance in Dietary Treatments for Epilepsy. *Journal of Nutrition*, **2018**, 148, 480-489	4.1	9
15	Increased intracellular calcium in rat anterior piriform cortex in response to threonine after threonine deprivation. *Journal of Neurophysiology*, **1999**, 81, 1147-9	3.2	9
14	Inhibition of norepinephrine release in the rat ventromedial hypothalamic nucleus in essential amino acid deficiency. *Neuroscience Letters*, **1999**, 259, 53-5	3.3	9
13	Essential amino acids affect interstitial dopamine metabolites in the anterior piriform cortex of rats. *Journal of Nutrition*, **1999**, 129, 1742-5	4.1	8
12	Threonine concentration in the prepyriform cortex has separate effects on dietary selection and intake of a threonine-imbalanced diet by rats. *Journal of Nutrition*, **1991**, 121, 1287-92	4.1	8
11	Measuring the Ability of Mice to Sense Dietary Essential Amino Acid Deficiency: The Importance of Amino Acid Status and Timing. *Cell Reports*, **2016**, 16, 2049-2050	10.6	8
10	Autonomic efferents affect intake of imbalanced amino acid diets by rats. *Pharmacology Biochemistry and Behavior*, **2005**, 81, 24-31	3.9	7

9	Alpha 2 noradrenoceptors in the anterior piriform cortex decline with acute amino acid deficiency. *Molecular Brain Research*, **1996**, 35, 41-6		7
8	Amino acids and serotonin in Limax maximum after a tryptophan devoid diet. *Comparative Biochemistry and Physiology A, Comparative Physiology*, **1992**, 101, 143-9		6
7	Lean (Fa/Fa) but not obese (fa/fa) Zucker rats release cholecystokinin at PVN after a gavaged meal. *American Journal of Physiology - Endocrinology and Metabolism*, **1998**, 275, E1-5	6	5
6	Leptin in the Anterior Piriform Cortex Affects Food Intake in Rats. *Nutritional Neuroscience*, **1999**, 2, 357-67	3.6	5
5	Effects of essential amino acid deficiency: down-regulation of KCC2 and the GABAA receptor; disinhibition in the anterior piriform cortex. *Journal of Neurochemistry*, **2013**, 127, 520-30	6	4
4	Dietary excess of vitamin B-6 affects the concentrations of amino acids in the caudate nucleus and serum and the binding properties of serotonin receptors in the brain cortex of rats. *Journal of Nutrition*, **1998**, 128, 1829-35	4.1	4
3	Effects of dorsomedial hypothalamic nuclei lesions on intake of an imbalanced amino acid diet. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **1999**, 277, R250-62	3.2	3
2	Brain Signaling of Indispensable Amino Acid Deficiency.. *Journal of Clinical Medicine*, **2021**, 11,	5.1	1
1	Nutrients, Stress, and Medical Disorders. *American Journal of Clinical Nutrition*, **2006**, 84, 951-951	7	