Dorothy W Gietzen

List of Publications by Year
in descending order

62 papers	1,937 citations	257357 24 h-index	265120 42 g-index
62 all docs	62 docs citations	62 times ranked	1242 citing authors

#	Article	IF	Citations
1	Uncharged tRNA and Sensing of Amino Acid Deficiency in Mammalian Piriform Cortex. Science, 2005, 307, 1776-1778.	6.0	287
2	Neural Mechanisms in the Responses to Amino Acid Deficiency. Journal of Nutrition, 1993, 123, 610-625.	1.3	132
3	Mechanisms of Food Intake Repression in Indispensable Amino Acid Deficiency. Annual Review of Nutrition, 2007, 27, 63-78.	4.3	117
4	Rats Rapidly Reject Diets Deficient in Essential Amino Acids. Journal of Nutrition, 2003, 133, 2331-2335.	1.3	72
5	Neurochemical Changes after Imbalanced Diets Suggest a Brain Circuit Mediating Anorectic Responses to Amino Acid Deficiency in Rats , ,. Journal of Nutrition, 1998, 128, 771-781.	1.3	69
6	Catecholamine Synthesis Inhibitors Acutely Modulate [³H]Estradiol Binding by Specific Brain Areas and Pituitary in Ovariectomized Rats*. Endocrinology, 1983, 113, 855-865.	1.4	63
7	Nutritional homeostasis and indispensable amino acid sensing: a new solution to an old puzzle. Trends in Neurosciences, 2006, 29, 91-99.	4.2	61
8	Norepinephrine and amino acids in prepyriform cortex of rats fed imbalanced amino acid diets. Physiology and Behavior, 1986, 36, 1071-1080.	1.0	52
9	Molecular Mechanisms in the Brain Involved in the Anorexia of Branched-Chain Amino Acid Deficiency. Journal of Nutrition, 2001, 131, 851S-855S.	1.3	49
10	Phosphorylation of eIF2Î± 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, 717-723.	1.3	49
11	Behavioral and neurochemical changes in folate-deficient mice. Physiology and Behavior, 1995, 58, 935-941.	1.0	44
12	Serotonergic blockade in the treatment of the cancer anorexia-cachexia syndrome. Cancer, 1999, 86, 684-688.	2.0	43
13	The Anterior Piriform Cortex Is Sufficient for Detecting Depletion of an Indispensable Amino Acid, Showing Independent Cortical Sensory Function. Journal of Neuroscience, 2011, 31, 1583-1590.	1.7	42
14	Detection of amino acid deprivation in the central nervous system. Current Opinion in Clinical Nutrition and Metabolic Care, 2012, 16, 1.	1.3	41
15	Protein Synthesis in the Prepyriform Cortex: Effects on Intake of an Amino Acid-Imbalanced Diet by Sprague-Dawley Rats. Journal of Nutrition, 1991, 121, 754-761.	1.3	38
16	The Brain's Response to an Essential Amino Acid-Deficient Diet and the Circuitous Route to a Better Meal. Molecular Neurobiology, 2012, 46, 332-348.	1.9	38
17	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.	2.5	36
18	Essential Amino Acid Deficiency Enhances Long-Term Intake but Not Short-Term Licking of the Required Nutrient. Journal of Nutrition, 1999, 129, 1604-1612.	1.3	34

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19	Small Changes in Essential Amino Acid Concentrations Alter Diet Selection in Amino Acidâ€“Deficient Rats. Journal of Nutrition, 1997, 127, 777-784.	1.3	32
20	Learned preference for the limiting amino acid in rats fed a threonine-deficient diet. Physiology and Behavior, 1992, 51, 909-914.	1.0	31
21	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, 2365-2371.	1.3	30
22	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, 1486-1490.	1.3	30
23	Learned preference and aversion for complete and isoleucine-devoid diets in rats. Physiology and Behavior, 1993, 53, 485-494.	1.0	28
24	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, 247-251.	1.5	26
25	Anorectic response to amino acid imbalance: A selective serotonin3 effect?. Pharmacology Biochemistry and Behavior, 1994, 47, 59-63.	1.3	24
26	Lysine Deficiency Alters Diet Selection without Depressing Food Intake in Rats. Journal of Nutrition, 1999, 129, 424-430.	1.3	23
27	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.	1.2	22
28	Evaluation of Vitamin B-6 Status and Function of Rats Fed Excess Pyridoxine. Journal of Nutrition, 1989, 119, 1392-1398.	1.3	21
29	Role of MAP kinase in signaling indispensable amino acid deficiency in the brain. Molecular Brain Research, 2002, 105, 11-18.	2.5	21
30	GABAA and GABAB receptors in the anterior piriform cortex modulate feeding in rats. Brain Research, 2002, 924, 1-9.	1.1	21
31	Timing and dose of amino acids injected into prepyriform cortex influence food intake. Physiology and Behavior, 1993, 53, 899-903.	1.0	20
32	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.	2.5	20
33	Effects of Amino Acid Deficiency on Monoamines in the Lateral Hypothalamus (LH) in Rats. Nutritional Neuroscience, 2003, 6, 291-299.	1.5	19
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, 124-133.	1.1	19
35	Effects of threonine injections in the lateral hypothalamus on intake of amino acid imbalanced diets in rats. Brain Research, 2000, 879, 65-72.	1.1	17
36	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, 2156-2164.	1.3	17

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37	Adrenal Hormones and the Anorectic Response and Adaptation of Rats to Amino Acid Imbalance. Journal of Nutrition, 1990, 120, 1617-1623.	1.3	16
38	ICS 205-930 and feeding responses to amino acid imbalance: A peripheral effect?. Pharmacology Biochemistry and Behavior, 1991, 40, 83-87.	1.3	16
39	Indispensable Amino Acidâ€“Deficient Diets Induce Seizures in Ketogenic Dietâ€“Fed Rodents, Demonstrating a Role for Amino Acid Balance in Dietary Treatments for Epilepsy. Journal of Nutrition, 2018, 148, 480-489.	1.3	16
40	Sex Differences in [³H]-Estradiol Binding in Brain and Pituitary after Acute Dopaminergic Treatment. Neuroendocrinology, 1986, 42, 334-343.	1.2	15
41	Dorsomedial Hypothalamic Lesions Alter Intake of an Imbalanced Amino Acid Diet in Rats. Journal of Nutrition, 1998, 128, 1213-1217.	1.3	15
42	Differential effects of selective vagotomy and tropisetron in aminoprivic feeding. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2000, 279, R997-R1009.	0.9	14
43	Amino acid imbalance, a nutritional model: Serotonin3 mediation of aversive responses. Physiology and Behavior, 1991, 49, 981-985.	1.0	13
44	Co-localization of phosphorylated extracellular signal-regulated protein kinases 1/2 (ERK1/2) and phosphorylated eukaryotic initiation factor 2Î± (eIF2Î±) in response to a threonine-devoid diet. Journal of Comparative Neurology, 2006, 494, 485-494.	0.9	13
45	Meal Patterns Reveal Differential Effects of Vagotomy and Tropisetron on Responses to Indispensable Amino Acid Deficiency in Rats. Journal of Nutrition, 1996, 126, 1722-1731.	1.3	13
46	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, 1287-1292.	1.3	11
47	Threonine-imbalanced diet alters first-meal microstructure in rats. Physiology and Behavior, 2004, 81, 15-21.	1.0	11
48	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.	2.9	11
49	Transfer Ribonucleic Acid Charging in Rat Brain after Consumption of Amino Acid-imbalanced Diets. Nutritional Neuroscience, 2002, 5, 125-130.	1.5	10
50	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-E5.	1.8	9
51	Increased Intracellular Calcium in Rat Anterior Piriform Cortex in Response to Threonine After Threonine Deprivation. Journal of Neurophysiology, 1999, 81, 1147-1149.	0.9	9
52	Inhibition of norepinephrine release in the rat ventromedial hypothalamic nucleus in essential amino acid deficiency. Neuroscience Letters, 1999, 259, 53-55.	1.0	9
53	Essential Amino Acids Affect Interstitial Dopamine Metabolites in the Anterior Piriform Cortex of Rats. Journal of Nutrition, 1999, 129, 1742-1745.	1.3	8
54	Amino acids and serotonin in Limax maximus after a tryptophan devoid diet. Comparative Biochemistry and Physiology A, Comparative Physiology, 1992, 101, 143-149.	0.7	7

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55	Alpha2 noradrenoceptors in the anterior piriform cortex decline with acute amino acid deficiency. Molecular Brain Research, 1996, 35, 41-46.	2.5	7
56	Autonomic efferents affect intake of imbalanced amino acid diets by rats. Pharmacology Biochemistry and Behavior, 2005, 81, 24-31.	1.3	7
57	Leptin in the Anterior Piriform Cortex Affects Food Intake in Rats. Nutritional Neuroscience, 1999, 2, 357-367.	1.5	5
58	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, 1829-1835.	1.3	4
59	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-R262.	0.9	4
60	Effects of essential amino acid deficiency: downâ€regulation of <scp>KCC</scp>2 and the <scp>GABA_A</scp> receptor; disinhibition in the anterior piriform cortex. Journal of Neurochemistry, 2013, 127, 520-530.	2.1	4
61	Brain Signaling of Indispensable Amino Acid Deficiency. Journal of Clinical Medicine, 2022, 11, 191.	1.0	2
62	Nutrients, Stress, and Medical Disorders. American Journal of Clinical Nutrition, 2006, 84, 951-951.	2.2	0