Thomas W Gettys

List of Publications by Year
in descending order

116 papers	6,739 citations	53794 45 h-index	71685 76 g-index
116 all docs	116 docs citations	116 times ranked	6827 citing authors

#	Article	IF	Citations
1	FGF21 is an endocrine signal of protein restriction. Journal of Clinical Investigation, 2014, 124, 3913-3922.	8.2	451
2	Multiplicity of mechanisms of serotonin receptor signal transduction. , 2001, 92, 179-212.		407
3	The Metabolic Significance of Leptin in Humans: Gender-Based Differences in Relationship to Adiposity, Insulin Sensitivity, and Energy Expenditure. Journal of Clinical Endocrinology and Metabolism, 1997, 82, 1293-1300.	3.6	299
4	The metabolism and significance of homocysteine in nutrition and health. Nutrition and Metabolism, 2017, 14, 78.	3.0	226
5	The recombinant 5â€HT_{1A} receptor: G protein coupling and signalling pathways. British Journal of Pharmacology, 1999, 127, 1751-1764.	5.4	216
6	Quercetin transiently increases energy expenditure but persistently decreases circulating markers of inflammation in C57BL/6J mice fed a high-fat diet. Metabolism: Clinical and Experimental, 2008, 57, S39-S46.	3.4	177
7	Dietary methionine restriction enhances metabolic flexibility and increases uncoupled respiration in both fed and fasted states. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R728-R739.	1.8	175
8	Methionine restriction restores a younger metabolic phenotype in adult mice with alterations in fibroblast growth factor 21. Aging Cell, 2014, 13, 817-827.	6.7	158
9	Mechanisms of Increased In Vivo Insulin Sensitivity by Dietary Methionine Restriction in Mice. Diabetes, 2014, 63, 3721-3733.	0.6	156
10	Induction of Uncoupling Protein Expression in Brown and White Adipose Tissue by Leptin**This work was supported by a research grant from the American Diabetes Association, USPHS Grant DK-53981, and a research grant from the USDA (NRICGP/USDA 9800699).. Endocrinology, 1999, 140, 292-300.	2.8	155
11	Metabolic Responses to Dietary Protein Restriction Require an Increase in FGF21 that Is Delayed by the Absence of GCN2. Cell Reports, 2016, 16, 707-716.	6.4	146
12	Cell-specific physical and functional coupling of human 5-HT1A receptors to inhibitory G protein .alpha.-subunits and lack of coupling to Gs.alpha.. Biochemistry, 1993, 32, 11064-11073.	2.5	142
13	Dietary Methionine Restriction Increases Fat Oxidation in Obese Adults with Metabolic Syndrome. Journal of Clinical Endocrinology and Metabolism, 2011, 96, E836-E840.	3.6	128
14	Alternative mRNA Splicing Produces a Novel Biologically Active Short Isoform of PGC-1Î±. Journal of Biological Chemistry, 2009, 284, 32813-32826.	3.4	125
15	Differential Interaction with and Regulation of Multiple G-proteins by the Rat A3 Adenosine Receptor. Journal of Biological Chemistry, 1995, 270, 16895-16902.	3.4	116
16	Role of GCN2-Independent Signaling Through a Noncanonical PERK/NRF2 Pathway in the Physiological Responses to Dietary Methionine Restriction. Diabetes, 2016, 65, 1499-1510.	0.6	114
17	Dietary polyunsaturated fatty acids enhance hepatic AMP-activated protein kinase activity in rats. Biochemical and Biophysical Research Communications, 2005, 326, 851-858.	2.1	110
18	FGF21 Mediates the Thermogenic and Insulin-Sensitizing Effects of Dietary Methionine Restriction but Not Its Effects on Hepatic Lipid Metabolism. Diabetes, 2017, 66, 858-867.	0.6	109

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19	Impaired expression and functional activity of the beta 3- and beta 1- adrenergic receptors in adipose tissue of congenitally obese (C57BL/6J ob/ob) mice. Molecular Endocrinology, 1994, 8, 518-527.	3.7	109
20	Norepinephrine Is Required for Leptin Effects on Gene Expression in Brown and White Adipose Tissue¹. Endocrinology, 1999, 140, 4772-4778.	2.8	102
21	Selective Activation of Inhibitory G-Protein .alpha.-Subunits by Partial Agonists of the Human 5-HT1A Receptor. Biochemistry, 1994, 33, 4283-4290.	2.5	100
22	Increased Hypothalamic Protein Tyrosine Phosphatase 1B Contributes to Leptin Resistance with Age. Endocrinology, 2007, 148, 433-440.	2.8	100
23	Remodeling the Integration of Lipid Metabolism Between Liver and Adipose Tissue by Dietary Methionine Restriction in Rats. Diabetes, 2013, 62, 3362-3372.	0.6	95
24	Polyunsaturated fatty acid suppression of fatty acid synthase (FASN): evidence for dietary modulation of NF-Y binding to the Fasn promoter by SREBP-1c. Biochemical Journal, 2007, 402, 591-600.	3.7	94
25	Central Leptin Regulates the UCP1 and obGenes in Brown and White Adipose Tissue via Different Î²-Adrenoceptor Subtypes. Journal of Biological Chemistry, 2000, 275, 33059-33067.	3.4	90
26	Role of Î²-adrenergic receptors in the hyperphagic and hypermetabolic responses to dietary methionine restriction. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R740-R750.	1.8	83
27	The Impact of Dietary Methionine Restriction on Biomarkers of Metabolic Health. Progress in Molecular Biology and Translational Science, 2014, 121, 351-376.	1.7	81
28	Differential regulation of leptin expression and function in A/J vs. C57BL/6J mice during diet-induced obesity. American Journal of Physiology - Endocrinology and Metabolism, 2000, 279, E356-E365.	3.5	78
29	Regulation of NT-PGC-1Î± Subcellular Localization and Function by Protein Kinase A-dependent Modulation of Nuclear Export by CRM1. Journal of Biological Chemistry, 2010, 285, 18039-18050.	3.4	73
30	Targeted deletion of melanocortin receptor subtypes 3 and 4, but not CART, alters nutrient partitioning and compromises behavioral and metabolic responses to leptin. FASEB Journal, 2005, 19, 1482-1491.	0.5	72
31	Differential Mechanisms and Development of Leptin Resistance in A/J Versus C57BL/6J Mice during Diet-Induced Obesity. Endocrinology, 2003, 144, 1155-1163.	2.8	69
32	NT-PGC-1Î± Protein Is Sufficient to Link Î²3-Adrenergic Receptor Activation to Transcriptional and Physiological Components of Adaptive Thermogenesis. Journal of Biological Chemistry, 2012, 287, 9100-9111.	3.4	68
33	UCP1 is an essential mediator of the effects of methionine restriction on energy balance but not insulin sensitivity. FASEB Journal, 2015, 29, 2603-2615.	0.5	68
34	Concentrationâ€dependent linkage of dietary methionine restriction to the components of its metabolic phenotype. Obesity, 2017, 25, 730-738.	3.0	61
35	Implications of crosstalk between leptin and insulin signaling during the development of diet-induced obesity. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2009, 1792, 409-416.	3.8	60
36	Activator of G Protein Signaling 3 Null Mice: I. Unexpected Alterations in Metabolic and Cardiovascular Function. Endocrinology, 2008, 149, 3842-3849.	2.8	58

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37	Failure of dietary quercetin to alter the temporal progression of insulin resistance among tissues of C57BL/6J mice during the development of diet-induced obesity. Diabetologia, 2009, 52, 514-523.	6.3	56
38	Leptin selectively reduces white adipose tissue in mice via a UCP1-dependent mechanism in brown adipose tissue. American Journal of Physiology - Endocrinology and Metabolism, 2001, 280, E372-E377.	3.5	53
39	Dietary Quercetin Supplementation in Mice Increases Skeletal Muscle PGC1Î± Expression, Improves Mitochondrial Function and Attenuates Insulin Resistance in a Time-Specific Manner. PLoS ONE, 2014, 9, e89365.	2.5	53
40	Transcriptional impact of dietary methionine restriction on systemic inflammation: Relevance to biomarkers of metabolic disease during aging. BioFactors, 2014, 40, 13-26.	5.4	51
41	Effect of Exercise Intensity on Isoform-Specific Expressions of NT-PGC-1<i>Î±</i>mRNA in Mouse Skeletal Muscle. BioMed Research International, 2014, 2014, 1-11.	1.9	49
42	Characterization and Use of Crude Î±-Subunit Preparations for Quantitative Immunoblotting of G Proteins. Analytical Biochemistry, 1994, 220, 82-91.	2.4	47
43	5-HT1A Receptor Activates Na+/H+ Exchange in CHO-K1 Cells through GiÎ±2 and GiÎ±3. Journal of Biological Chemistry, 1997, 272, 7770-7776.	3.4	47
44	Hepatocyte nuclear factor-4Î± contributes to carbohydrate-induced transcriptional activation of hepatic fatty acid synthase. Biochemical Journal, 2006, 399, 285-295.	3.7	47
45	Regulation of Pancreatic Endocrine Function by Cholecystokinin: Studies with MK-329, a Nonpeptide Cholecystokinin Receptor Antagonist*. Journal of Clinical Endocrinology and Metabolism, 1990, 70, 1312-1318.	3.6	46
46	GTP-binding proteins regulate high conductance anion channels in rat bile duct epithelial cells. Journal of Membrane Biology, 1993, 133, 253-61.	2.1	46
47	RU-486 (Mifepristone) ameliorates diabetes but does not correct deficient Î²-adrenergic signalling in adipocytes from mature C57BL/6J-ob/ob mice. International Journal of Obesity, 1997, 21, 865-873.	3.4	46
48	Remodeling of Lipid Metabolism by Dietary Restriction of Essential Amino Acids. Diabetes, 2013, 62, 2635-2644.	0.6	46
49	Metabolic responses to dietary leucine restriction involve remodeling of adipose tissue and enhanced hepatic insulin signaling. BioFactors, 2015, 41, 391-402.	5.4	46
50	Vagal afferent control of opioidergic effects in rat brainstem circuits. Journal of Physiology, 2006, 575, 761-776.	2.9	45
51	AGS3 and Signal Integration by GÎ±s- and GÎ±i-coupled Receptors. Journal of Biological Chemistry, 2004, 279, 13375-13382.	3.4	44
52	Adaptive Changes in Adipocyte Gene Expression Differ in AKR/J and SWR/J Mice during Diet-Induced Obesity. Journal of Nutrition, 2002, 132, 3325-3332.	2.9	43
53	The G-protein regulatory (GPR) motif-containing Leuâ€“Glyâ€“Asn-enriched protein (LGN) and GiÎ±3 influence cortical positioning of the mitotic spindle poles at metaphase in symmetrically dividing mammalian cells. European Journal of Cell Biology, 2006, 85, 1233-1240.	3.6	42
54	Agonist-induced desensitization and phosphorylation of human 5-HT1A receptor expressed in Sf9 insect cells. Biochemistry, 1995, 34, 11954-11962.	2.5	40

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55	Stimulation of secretion by the T84 colonic epithelial cell line with dietary flavonols. Biochemical Pharmacology, 1991, 41, 1879-1886.	4.4	39
56	The Effect of Â-Adrenergic and Peroxisome Proliferator-Activated Receptor-Â Stimulation on Target Genes Related to Lipid Metabolism in Human Subcutaneous Adipose Tissue. Diabetes Care, 2007, 30, 1179-1186.	8.6	39
57	A systems biology analysis of the unique and overlapping transcriptional responses to caloric restriction and dietary methionine restriction in rats. FASEB Journal, 2014, 28, 2577-2590.	0.5	39
58	Dietary Methionine Restriction Regulates Liver Protein Synthesis and Gene Expression Independently of Eukaryotic Initiation Factor 2 Phosphorylation in Mice. Journal of Nutrition, 2017, 147, 1031-1040.	2.9	39
59	Photoperiodic regulation of gene expression in brown and white adipose tissue of Siberian hamsters (Phodopus sungorus). American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2002, 282, R114-R121.	1.8	37
60	Activation of Î²2- and Î²3-Adrenergic Receptors Increases Brain Tryptophan. Journal of Pharmacology and Experimental Therapeutics, 2003, 305, 653-659.	2.5	37
61	Methionine restriction improves renal insulin signalling in aged kidneys. Mechanisms of Ageing and Development, 2016, 157, 35-43.	4.6	36
62	[7] Purification and assay of cAMP, cGMP, and cyclic nucleotide analogs in cells treated with cyclic nucleotide analogs. Methods in Enzymology, 1988, 159, 74-82.	1.0	33
63	An integrative analysis of tissue-specific transcriptomic and metabolomic responses to short-term dietary methionine restriction in mice. PLoS ONE, 2017, 12, e0177513.	2.5	33
64	Dietary Methionine Restriction Reduces Inflammation Independent of FGF21 Action. Obesity, 2019, 27, 1305-1313.	3.0	32
65	Roux-en-Y Gastric Bypass Surgery-Induced Weight Loss and Metabolic Improvements Are Similar in TGR5-Deficient and Wildtype Mice. Obesity Surgery, 2018, 28, 3227-3236.	2.1	30
66	Alterations in macrophage G proteins are associated with endotoxin tolerance. Biochimica Et Biophysica Acta - Molecular Cell Research, 1996, 1312, 163-168.	4.1	29
67	The Components of Ageâ€Dependent Effects of Dietary Methionine Restriction on Energy Balance in Rats. Obesity, 2018, 26, 740-746.	3.0	29
68	Sexually Dimorphic Effects of Dietary Methionine Restriction are Dependent on Age when the Diet is Introduced. Obesity, 2020, 28, 581-589.	3.0	27
69	Norepinephrine Is Required for Leptin Effects on Gene Expression in Brown and White Adipose Tissue. Endocrinology, 1999, 140, 4772-4778.	2.8	27
70	Compromised responses to dietary methionine restriction in adipose tissue but not liver of <i>ob</i>/<i>ob</i> mice. Obesity, 2015, 23, 1836-1844.	3.0	25
71	Cellular and molecular remodeling of inguinal adipose tissue mitochondria by dietary methionine restriction. Journal of Nutritional Biochemistry, 2015, 26, 1235-1247.	4.2	24
72	Physiologic Responses to Dietary Sulfur Amino Acid Restriction in Mice Are Influenced by Atf4 Status and Biological Sex. Journal of Nutrition, 2021, 151, 785-799.	2.9	24

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73	Short photoperiod exposure increases adipocyte sensitivity to noradrenergic stimulation in Siberian hamsters. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 288, R1354-R1360.	1.8	23
74	Dietary Methionine Restriction Signals to the Brain Through Fibroblast Growth Factor 21 to Regulate Energy Balance and Remodeling of Adipose Tissue. Obesity, 2020, 28, 1912-1921.	3.0	23
75	Sensing and signaling mechanisms linking dietary methionine restriction to the behavioral and physiological components of the response. Frontiers in Neuroendocrinology, 2018, 51, 36-45.	5.2	21
76	Coupling of thromboxane A2 receptor isoforms to GÎ±13: effects on ligand binding and signalling. Biochimica Et Biophysica Acta - Molecular Cell Research, 1999, 1450, 288-296.	4.1	20
77	Ciliary neurotrophic factor influences endocrine adipocyte function: inhibition of leptin via PI 3-kinase. Molecular and Cellular Endocrinology, 2004, 224, 21-27.	3.2	20
78	The Proto-oncogene SET Interacts with Muscarinic Receptors and Attenuates Receptor Signaling. Journal of Biological Chemistry, 2006, 281, 40310-40320.	3.4	20
79	Effects of hepatic protein tyrosine phosphatase 1B and methionine restriction on hepatic and whole-body glucose and lipid metabolism in mice. Metabolism: Clinical and Experimental, 2015, 64, 305-314.	3.4	20
80	Regulation of Brown and White Adipocyte Transcriptome by the Transcriptional Coactivator NT-PGC-1Î±. PLoS ONE, 2016, 11, e0159990.	2.5	20
81	Adrenalectomy after Weaning RestoresÎ² 3-Adrenergic Receptor Expression in White Adipocytes from C57BL/6J-ob/ob Mice*. Endocrinology, 1997, 138, 2697-2704.	2.8	16
82	The acute transcriptional responses to dietary methionine restriction are triggered by inhibition of ternary complex formation and linked to Erk1/2, mTOR, and ATF4. Scientific Reports, 2021, 11, 3765.	3.3	16
83	Importance of cholecystokinin in peptide-YY release in response to pancreatic juice diversion. Regulatory Peptides, 1993, 43, 169-176.	1.9	15
84	Role of guanine nucleotide-binding proteins, GiÎ±3 and GsÎ±, in dopamine and thyrotropin-releasing hormone signal transduction: evidence for competition and commonality. Journal of Endocrinology, 1996, 148, 447-455.	2.6	15
85	Transcriptional Activity of PGC-1<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:mi mathvariant="bold-italic">Î±</mml:mi></mml:mrow></mml:math>and NT-PGC-1<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M2"><mml:mrow><mml:mi mathvariant="bold-italic">Î±</mml:mi></mml:mrow></mml:math>Is Differentially Regulated by Twist-1 in Brown Fat Metabolism. PPAR Research, 2012, 2012, 1-7.	2.4	15
86	High levels of dietary methionine improves sitagliptin-induced hepatotoxicity by attenuating oxidative stress in hypercholesterolemic rats. Nutrition and Metabolism, 2020, 17, 2.	3.0	14
87	Tissue-specific alterations in G protein expression in genetic versus diet-induced models of non-insulin-dependent diabetes mellitus in the mouse. Metabolism: Clinical and Experimental, 1995, 44, 771-778.	3.4	13
88	The Origins, Evolution, and Future of Dietary Methionine Restriction. Annual Review of Nutrition, 2022, 42, 201-226.	10.1	13
89	Increased prostacyclin and PGE2 stimulated cAMP production by macrophages from endotoxin-tolerant rats. American Journal of Physiology - Cell Physiology, 1998, 274, C1238-C1244.	4.6	12
90	A newly discovered member of the fatty acid desaturase gene family: A non-coding, antisense RNA gene to Î”5-desaturase. Prostaglandins Leukotrienes and Essential Fatty Acids, 2006, 75, 97-106.	2.2	12

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91	Changes in G protein expression account for impaired modulation of hepatic cAMP formation after BDL. American Journal of Physiology - Renal Physiology, 1998, 274, G1151-G1159.	3.4	11
92	Combining Î²-adrenergic and peroxisome proliferatorâ€"activated receptor Î³ stimulation improves lipoprotein composition in healthy moderately obese subjects. Metabolism: Clinical and Experimental, 2006, 55, 26-34.	3.4	11
93	Regulation of Stimulated Cyclic AMP Synthesis by Urocanic Acid. Photochemistry and Photobiology, 1998, 67, 324-331.	2.5	10
94	Nutritional Regulation of Hepatic FGF21 by Dietary Restriction of Methionine. Frontiers in Endocrinology, 2021, 12, 773975.	3.5	10
95	Separation and Assay of Phosphodiesterase Isoforms in Murine Peritoneal Macrophages Using Membrane Matrix DEAE Chromatography and [32P]cAMP. Analytical Biochemistry, 1993, 208, 155-160.	2.4	8
96	Increased cAMP and cAMP-Dependent Protein Kinase Activity Mediate Anti-CD2 Induced Suppression of Anti-CD3-Driven Interleukin-2 Production and CD25 Expression. Pathobiology, 1995, 63, 175-187.	3.8	8
97	Implementation of dietary methionine restriction using casein after selective, oxidative deletion of methionine. IScience, 2021, 24, 102470.	4.1	8
98	FGF21 prevents low-protein diet-induced renal inflammation in aged mice. American Journal of Physiology - Renal Physiology, 2021, 321, F356-F368.	2.7	8
99	Beta-adrenergic receptors on leukocytes of the channel catfish, Ictalurus punctatus. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2002, 131, 27-37.	2.6	7
100	The Role of Reduced Methionine in Mediating the Metabolic Responses to Protein Restriction Using Different Sources of Protein. Nutrients, 2021, 13, 2609.	4.1	7
101	Agonist-induced translocation of G_{q/11}Î± immunoreactivity directly from plasma membrane in MDCK cells. American Journal of Physiology - Renal Physiology, 1999, 276, F528-F534.	2.7	6
102	The role of suppression of hepatic SCD1 expression in the metabolic effects of dietary methionine restriction. Applied Physiology, Nutrition and Metabolism, 2018, 43, 123-130.	1.9	6
103	The incretin enhancer, sitagliptin, exacerbates expression of hepatic inflammatory markers in rats fed a high-cholesterol diet. Inflammation Research, 2019, 68, 581-595.	4.0	6
104	Effects of Artemisia species on de novo lipogenesis inÂvivo. Nutrition, 2014, 30, S17-S20.	2.4	5
105	Hepatic Nfe2l2 Is Not an Essential Mediator of the Metabolic Phenotype Produced by Dietary Methionine Restriction. Nutrients, 2021, 13, 1788.	4.1	5
106	Somatostatin selectively couples to G(o) alpha in HIT-T15 cells. Diabetes, 1995, 44, 85-89.	0.6	5
107	Results of in-vitro fertilization in normal ovulatory women treated with pure follicle stimulating hormone. Analysis of the oestradiol response. Human Reproduction, 1989, 4, 754-756.	0.9	3
108	Differential coupling of Î²3A- and Î²3B-adrenergic receptors to endogenous and chimeric GÎ±s and GÎ±i. American Journal of Physiology - Endocrinology and Metabolism, 2006, 291, E704-E715.	3.5	3

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109	Adrenalectomy after Weaning Restores Â3-Adrenergic Receptor Expression in White Adipocytes from C57BL/6J-ob/ob Mice. Endocrinology, 1997, 138, 2697-2704.	2.8	3
110	Analyzing Phosphorylation-Dependent Regulation of Subcellular Localization and Transcriptional Activity of Transcriptional Coactivator NT-PGC-1Î±. Methods in Molecular Biology, 2013, 952, 163-173.	0.9	2
111	Meal-Induced Pancreatic Polypeptide Release in a Validated Pancreatic Denervation Model. Pancreas, 1990, 5, 323-329.	1.1	1
112	An Optimized Immunoblotting Protocol for Accurate Detection of Endogenous PGC-1Î± Isoforms in Various Rodent Tissues. Methods in Molecular Biology, 2019, 1966, 7-16.	0.9	1
113	Role of the Distal Pancreas in Pancreatic Polypeptide Release. Pancreas, 1992, 7, 339-344.	1.1	0
114	Selective Activation of Inhibitory G-Protein .alpha.-Subunits by Partial Agonists of the human 5-HT1A Receptor. [Erratum to document cited in CA120:209166]. Biochemistry, 1994, 33, 11404-11404.	2.5	0
115	INCREASED CICAPROST STIMULATED cAMP LEVELS IN MACROPHAGES FROM ENDOTOXIN TOLERANT RATS. Shock, 1996, 5, 50.	2.1	0
116	Prolonged effects of DPP-4 inhibitors on steato-hepatitic changes in Spragueâ€"Dawley rats fed a high-cholesterol diet. Inflammation Research, 2022, , .	4.0	0