William L Holland

List of Publications by Year
in descending order

73 papers	7,643 citations	109321 35 h-index	88630 70 g-index
77 all docs	77 docs citations	77 times ranked	10421 citing authors

#	Article	IF	Citations
1	Inhibition of Ceramide Synthesis Ameliorates Glucocorticoid-, Saturated-Fat-, and Obesity-Induced Insulin Resistance. Cell Metabolism, 2007, 5, 167-179.	16.2	1,048
2	Receptor-mediated activation of ceramidase activity initiates the pleiotropic actions of adiponectin. Nature Medicine, 2011, 17, 55-63.	30.7	751
3	Lipid-induced insulin resistance mediated by the proinflammatory receptor TLR4 requires saturated fatty acidâ€“induced ceramide biosynthesis in mice. Journal of Clinical Investigation, 2011, 121, 1858-1870.	8.2	566
4	Sphingolipids, Insulin Resistance, and Metabolic Disease: New Insights from in Vivo Manipulation of Sphingolipid Metabolism. Endocrine Reviews, 2008, 29, 381-402.	20.1	480
5	MitoNEET-driven alterations in adipocyte mitochondrial activity reveal a crucial adaptive process that preserves insulin sensitivity in obesity. Nature Medicine, 2012, 18, 1539-1549.	30.7	375
6	Targeting a ceramide double bond improves insulin resistance and hepatic steatosis. Science, 2019, 365, 386-392.	12.6	304
7	Targeted Induction of Ceramide Degradation Leads to Improved Systemic Metabolism and Reduced Hepatic Steatosis. Cell Metabolism, 2015, 22, 266-278.	16.2	268
8	Endotrophin triggers adipose tissue fibrosis and metabolic dysfunction. Nature Communications, 2014, 5, 3485.	12.8	263
9	Lipid Mediators of Insulin Resistance. Nutrition Reviews, 2007, 65, 39-46.	5.8	228
10	Zfp423 Maintains White Adipocyte Identity through Suppression of the Beige Cell Thermogenic Gene Program. Cell Metabolism, 2016, 23, 1167-1184.	16.2	187
11	FGF19, FGF21, and an FGFR1/Î²-Klotho-Activating Antibody Act on the Nervous System to Regulate Body Weight and Glycemia. Cell Metabolism, 2017, 26, 709-718.e3.	16.2	184
12	Ceramides and other sphingolipids as drivers of cardiovascular disease. Nature Reviews Cardiology, 2021, 18, 701-711.	13.7	160
13	Metabolic Messengers: ceramides. Nature Metabolism, 2019, 1, 1051-1058.	11.9	158
14	microRNA-17 family promotes polycystic kidney disease progression through modulation of mitochondrial metabolism. Nature Communications, 2017, 8, 14395.	12.8	147
15	Inducible overexpression of adiponectin receptors highlight the roles of adiponectin-induced ceramidase signaling in lipid and glucose homeostasis. Molecular Metabolism, 2017, 6, 267-275.	6.5	141
16	The pyruvate-lactate axis modulates cardiac hypertrophy and heart failure. Cell Metabolism, 2021, 33, 629-648.e10.	16.2	137
17	Lipid Mediators of Insulin Resistance. Nutrition Reviews, 2007, 65, S39-S46.	5.8	135
18	Brown adipose tissue derived VEGF-A modulates cold tolerance and energy expenditure. Molecular Metabolism, 2014, 3, 474-483.	6.5	126

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19	De novo adipocyte differentiation from PdgfrÎ²+ preadipocytes protects against pathologic visceral adipose expansion in obesity. Nature Communications, 2018, 9, 890.	12.8	113
20	Distinct regulatory mechanisms governing embryonic versus adult adipocyte maturation. Nature Cell Biology, 2015, 17, 1099-1111.	10.3	111
21	Fenretinide Prevents Lipid-induced Insulin Resistance by Blocking Ceramide Biosynthesis. Journal of Biological Chemistry, 2012, 287, 17426-17437.	3.4	110
22	Hepatic ANGPTL3 regulates adipose tissue energy homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11630-11635.	7.1	109
23	PPARÎ± agonist fenofibrate enhances fatty acid Î²-oxidation and attenuates polycystic kidney and liver disease in mice. American Journal of Physiology - Renal Physiology, 2018, 314, F122-F131.	2.7	90
24	Connexin 43 Mediates White Adipose Tissue Beiging by Facilitating the Propagation of Sympathetic Neuronal Signals. Cell Metabolism, 2016, 24, 420-433.	16.2	80
25	Hyperglycemia in rodent models of type 2 diabetes requires insulin-resistant alpha cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13217-13222.	7.1	78
26	<scp>MED</scp>13â€dependent signaling from the heart confers leanness by enhancing metabolism in adipose tissue and liver. EMBO Molecular Medicine, 2014, 6, 1610-1621.	6.9	77
27	POMC neurons expressing leptin receptors coordinate metabolic responses to fasting via suppression of leptin levels. ELife, 2018, 7, .	6.0	77
28	Adiponectin is essential for lipid homeostasis and survival under insulin deficiency and promotes Î²-cell regeneration. ELife, 2014, 3, .	6.0	74
29	Insulin and Glucagon: Partners for Life. Endocrinology, 2017, 158, 696-701.	2.8	71
30	Clinical Trials, Triumphs, and Tribulations of Glucagon Receptor Antagonists. Diabetes Care, 2016, 39, 1075-1077.	8.6	67
31	Low-Density Lipoprotein Receptor-Related Protein-1 Protects Against Hepatic Insulin Resistance and Hepatic Steatosis. EBioMedicine, 2016, 7, 135-145.	6.1	58
32	Glucagon Receptor Antagonism Improves Glucose Metabolism and Cardiac Function by Promoting AMP-Mediated Protein Kinase in Diabetic Mice. Cell Reports, 2018, 22, 1760-1773.	6.4	50
33	Targeting hepatic glutaminase activity to ameliorate hyperglycemia. Nature Medicine, 2018, 24, 518-524.	30.7	50
34	Glucose transporter 4-deficient hearts develop maladaptive hypertrophy in response to physiological or pathological stresses. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 313, H1098-H1108.	3.2	39
35	Directing visceral white adipocyte precursors to a thermogenic adipocyte fate improves insulin sensitivity in obese mice. ELife, 2017, 6, .	6.0	39
36	Effect of pioglitazone on plasma ceramides in adults with metabolic syndrome. Diabetes/Metabolism Research and Reviews, 2015, 31, 734-744.	4.0	37

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37	SF-1 expression in the hypothalamus is required for beneficial metabolic effects of exercise. ELife, 2016, 5, .	6.0	37
38	The ceramide ratio: a predictor of cardiometabolic risk. Journal of Lipid Research, 2018, 59, 1549-1550.	4.2	36
39	Lysophospholipid acylation modulates plasma membrane lipid organization and insulin sensitivity in skeletal muscle. Journal of Clinical Investigation, 2021, 131, .	8.2	34
40	A Novel Model of Diabetic Complications: Adipocyte Mitochondrial Dysfunction Triggers Massive Î²-Cell Hyperplasia. Diabetes, 2020, 69, 313-330.	0.6	33
41	Mutation of mouse <i>Samd4</i> causes leanness, myopathy, uncoupled mitochondrial respiration, and dysregulated mTORC1 signaling. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7367-7372.	7.1	32
42	A MED13-dependent skeletal muscle gene program controls systemic glucose homeostasis and hepatic metabolism. Genes and Development, 2016, 30, 434-446.	5.9	32
43	Short-Term Versus Long-Term Effects of Adipocyte Toll-Like Receptor 4 Activation on Insulin Resistance in Male Mice. Endocrinology, 2017, 158, 1260-1270.	2.8	31
44	Cholesterol â€" the devil you know; ceramide â€" the devil you donâ€™t. Trends in Pharmacological Sciences, 2021, 42, 1082-1095.	8.7	31
45	Essential nutrient supplementation prevents heritable metabolic disease in multigenerational intrauterine growthâ€restricted rats. FASEB Journal, 2015, 29, 807-819.	0.5	29
46	Glucagon blockade restores functional Î²-cell mass in type 1 diabetic mice and enhances function of human islets. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	29
47	PAQRs: A Counteracting Force to Ceramides?: Figure 1.. Molecular Pharmacology, 2009, 75, 740-743.	2.3	27
48	PPARÎ³-K107 SUMOylation regulates insulin sensitivity but not adiposity in mice. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12102-12111.	7.1	27
49	Dapagliflozin suppresses glucagon signaling in rodent models of diabetes. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6611-6616.	7.1	26
50	Ceramides are necessary and sufficient for diet-induced impairment of thermogenic adipocytes. Molecular Metabolism, 2021, 45, 101145.	6.5	26
51	Liver-specific ceramide reduction alleviates steatosis and insulin resistance in alcohol-fed mice. Journal of Lipid Research, 2020, 61, 983-994.	4.2	21
52	Novel four-disulfide insulin analog with high aggregation stability and potency. Chemical Science, 2020, 11, 195-200.	7.4	20
53	Risky lipids: refining the ceramide score that measures cardiovascular health. European Heart Journal, 2019, 41, 381-382.	2.2	16
54	Synthesis and Characterization of an A6-A11 Methylene Thioacetal Human Insulin Analogue with Enhanced Stability. Journal of Medicinal Chemistry, 2019, 62, 11437-11443.	6.4	16

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55	Ceramide Biomarkers Predictive of Cardiovascular Disease Risk Increase in Healthy Older Adults After Bed Rest. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2020, 75, 1663-1670.	3.6	16
56	Strong Heart, Low Ceramides. Diabetes, 2018, 67, 1457-1460.	0.6	15
57	Depletion of adipocyte sphingosine kinase 1 leads to cell hypertrophy, impaired lipolysis, and nonalcoholic fatty liver disease. Journal of Lipid Research, 2020, 61, 1328-1340.	4.2	15
58	Adipose tissue hyaluronan production improves systemic glucose homeostasis and primes adipocytes for CL 316,243-stimulated lipolysis. Nature Communications, 2021, 12, 4829.	12.8	15
59	Identification of a Paracrine Signaling Mechanism Linking CD34high Progenitors to the Regulation of Visceral Fat Expansion and Remodeling. Cell Reports, 2019, 29, 270-282.e5.	6.4	12
60	Receptors grease the metabolic wheels. Nature, 2017, 544, 42-43.	27.8	11
61	A Hepatocyte FOXN3-Î± Cell Glucagon Axis Regulates Fasting Glucose. Cell Reports, 2018, 24, 312-319.	6.4	10
62	Cordyceps inhibits ceramide biosynthesis and improves insulin resistance and hepatic steatosis. Scientific Reports, 2022, 12, 7273.	3.3	10
63	CB1Rs in VMH neurons regulate glucose homeostasis but not body weight. American Journal of Physiology - Endocrinology and Metabolism, 2021, 321, E146-E155.	3.5	9
64	Characterizing a Common CERS2 Polymorphism in a Mouse Model of Metabolic Disease and in Subjects from the Utah CAD Study. Journal of Clinical Endocrinology and Metabolism, 2021, 106, e3098-e3109.	3.6	8
65	Does This Schlank Make Me Look Fat?. Trends in Endocrinology and Metabolism, 2018, 29, 597-599.	7.1	7
66	FOXN3 controls liver glucose metabolism by regulating gluconeogenic substrate selection. Physiological Reports, 2019, 7, e14238.	1.7	6
67	The Lard Works in Mysterious Ways: Ceramides in Nutrition-Linked Chronic Disease. Annual Review of Nutrition, 2022, 42, 115-144.	10.1	6
68	You aren't IMMUNE to the ceramides that accumulate in cardiometabolic disease. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2022, 1867, 159125.	2.4	4
69	Very-Long-Chain Unsaturated Sphingolipids Mediate Oleate-Induced Rat Î²-Cell Proliferation. Diabetes, 2022, 71, 1218-1232.	0.6	3
70	Listen to your heart when ceramide's calling for higher glucose. EBioMedicine, 2019, 41, 3-4.	6.1	1
71	Gutting out Myc to decrease ceramides. Nature Metabolism, 2021, 3, 890-891.	11.9	0
72	Multicolor fluorescence biosensors reveal a burning need for diversity in the single-cell metabolic landscape. Trends in Endocrinology and Metabolism, 2021, 32, 537-539.	7.1	0

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73	Deletion of miRâ€92a Results in Glucose Intolerance via Impaired Pancreatic Beta Cell Function. FASEB Journal, 2019, 33, 714.2.	0.5	0