Leanne Hodson

List of Publications by Year
in descending order

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128 papers	7,892 citations	50276 46 h-index	54911 84 g-index
160 all docs	160 docs citations	160 times ranked	12097 citing authors

#	Article	IF	Citations
1	Fatty acid composition of adipose tissue and blood in humans and its use as a biomarker of dietary intake. Progress in Lipid Research, 2008, 47, 348-380.	11.6	1,038
2	Downregulation of Adipose Tissue Fatty Acid Trafficking in Obesity. Diabetes, 2011, 60, 47-55.	0.6	397
3	Evidence for an alternative fatty acid desaturation pathway increasing cancer plasticity. Nature, 2019, 566, 403-406.	27.8	326
4	Saturated Fat Is More Metabolically Harmful for the Human Liver Than Unsaturated Fat or Simple Sugars. Diabetes Care, 2018, 41, 1732-1739.	8.6	266
5	Effects of purified eicosapentaenoic and docosahexaenoic acids in nonalcoholic fatty liver disease: Results from the WELCOME* study. Hepatology, 2014, 60, 1211-1221.	7.3	263
6	Markers of de novo lipogenesis in adipose tissue: associations with small adipocytes and insulin sensitivity in humans. Diabetologia, 2009, 52, 882-890.	6.3	218
7	Preferential Uptake of Dietary Fatty Acids in Adipose Tissue and Muscle in the Postprandial Period. Diabetes, 2007, 56, 168-176.	0.6	209
8	Parallel activation of de novo lipogenesis and stearoyl-CoA desaturase activity after 3 d of high-carbohydrate feeding. American Journal of Clinical Nutrition, 2008, 87, 817-823.	4.7	185
9	Stearoyl-CoA desaturase: rogue or innocent bystander?. Progress in Lipid Research, 2013, 52, 15-42.	11.6	179
10	Structural and Functional Properties of Deep Abdominal Subcutaneous Adipose Tissue Explain Its Association With Insulin Resistance and Cardiovascular Risk in Men. Diabetes Care, 2014, 37, 821-829.	8.6	142
11	The regulation of hepatic fatty acid synthesis and partitioning: the effect of nutritional state. Nature Reviews Endocrinology, 2019, 15, 689-700.	9.6	138
12	Nonalcoholic Fatty Liver Disease in Adults: Current Concepts in Etiology, Outcomes, and Management. Endocrine Reviews, 2020, 41, 66-117.	20.1	134
13	Chronic Palmitate Exposure Inhibits Insulin Secretion by Dissociation of Ca2+ Channels from Secretory Granules. Cell Metabolism, 2009, 10, 455-465.	16.2	131
14	The effect of replacing dietary saturated fat with polyunsaturated or monounsaturated fat on plasma lipids in free-living young adults. European Journal of Clinical Nutrition, 2001, 55, 908-915.	2.9	130
15	Dietary-Induced Changes in Fatty Acid Composition of Human Plasma, Platelet, and Erythrocyte Lipids Follow a Similar Time Course. Journal of Nutrition, 2006, 136, 565-569.	2.9	130
16	Fasted to Fed Trafficking of Fatty Acids in Human Adipose Tissue Reveals a Novel Regulatory Step for Enhanced Fat Storage. Journal of Clinical Endocrinology and Metabolism, 2009, 94, 1781-1788.	3.6	123
17	Sex-Specific Differences in Hepatic Fat Oxidation and Synthesis May Explain the Higher Propensity for NAFLD in Men. Journal of Clinical Endocrinology and Metabolism, 2015, 100, 4425-4433.	3.6	108
18	Dietary carbohydrates and fats in nonalcoholic fatty liver disease. Nature Reviews Gastroenterology and Hepatology, 2021, 18, 770-786.	17.8	108

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19	Metabolic Signatures of Human Adipose Tissue Hypoxia in Obesity. Diabetes, 2013, 62, 1417-1425.	0.6	106
20	Influence of Dietary Macronutrients on Liver Fat Accumulation and Metabolism. Journal of Investigative Medicine, 2017, 65, 1102-1115.	1.6	104
21	The Influence of Dietary Fat on Liver Fat Accumulation. Nutrients, 2014, 6, 5018-5033.	4.1	100
22	Are oxidative stress mechanisms the common denominator in the progression from hepatic steatosis towards nonâ€alcoholic steatohepatitis (<scp>NASH</scp>)?. Liver International, 2014, 34, e180-90.	3.9	93
23	Human PNPLA3-I148M variant increases hepatic retention of polyunsaturated fatty acids. JCI Insight, 2019, 4, .	5.0	93
24	The Contribution of Splanchnic Fat to VLDL Triglyceride Is Greater in Insulin-Resistant Than Insulin-Sensitive Men and Women. Diabetes, 2007, 56, 2433-2441.	0.6	92
25	Exercise Prevents Fructose-Induced Hypertriglyceridemia in Healthy Young Subjects. Diabetes, 2013, 62, 2259-2265.	0.6	89
26	Metabolic Fate of Fructose Ingested with and without Glucose in a Mixed Meal. Nutrients, 2014, 6, 2632-2649.	4.1	87
27	De novo lipogenesis in the differentiating human adipocyte can provide all fatty acids necessary for maturation. Journal of Lipid Research, 2011, 52, 1683-1692.	4.2	86
28	Gluteofemoral Adipose Tissue Plays a Major Role in Production of the Lipokine Palmitoleate in Humans. Diabetes, 2012, 61, 1399-1403.	0.6	84
29	Distinct contributions of metabolic dysfunction and genetic risk factors in the pathogenesis of non-alcoholic fatty liver disease. Journal of Hepatology, 2022, 76, 526-535.	3.7	80
30	Differences in partitioning of meal fatty acids into blood lipid fractions: a comparison of linoleate, oleate, and palmitate. American Journal of Physiology - Endocrinology and Metabolism, 2009, 296, E64-E71.	3.5	70
31	Femoral Adipose Tissue May Accumulate the Fat That Has Been Recycled as VLDL and Nonesterified Fatty Acids. Diabetes, 2010, 59, 2465-2473.	0.6	69
32	Effects of supplementation with essential amino acids on intrahepatic lipid concentrations during fructose overfeeding in humans. American Journal of Clinical Nutrition, 2012, 96, 1008-1016.	4.7	65
33	Transient Cold Storage Prior to Normothermic Liver Perfusion May Facilitate Adoption of a Novel Technology. Liver Transplantation, 2019, 25, 1503-1513.	2.4	63
34	Hepatic fatty acid partitioning. Current Opinion in Lipidology, 2011, 22, 216-224.	2.7	62
35	Plasma and Erythrocyte Fatty Acids Reflect Intakes of Saturated and nâ€“6 PUFA within a Similar Time Frame. Journal of Nutrition, 2014, 144, 33-41.	2.9	62
36	Hydroxysteroid 17-Î² dehydrogenase 13 variant increases phospholipids and protects against fibrosis in nonalcoholic fatty liver disease. JCI Insight, 2020, 5, .	5.0	62

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37	Splanchnic Balance of Free Fatty Acids, Endocannabinoids, and Lipids in Subjects With Nonalcoholic Fatty Liver Disease. Gastroenterology, 2010, 139, 1961-1971.e1.	1.3	61
38	The Effect of Marine Derived n-3 Fatty Acids on Adipose Tissue Metabolism and Function. Journal of Clinical Medicine, 2016, 5, 3.	2.4	61
39	Greater dietary fat oxidation in obese compared with lean men: an adaptive mechanism to prevent liver fat accumulation?. American Journal of Physiology - Endocrinology and Metabolism, 2010, 299, E584-E592.	3.5	60
40	Young women partition fatty acids towards ketone body production rather than VLDL-TAG synthesis, compared with young men. British Journal of Nutrition, 2011, 105, 857-865.	2.3	57
41	Does the DASH diet lower blood pressure by altering peripheral vascular function?. Journal of Human Hypertension, 2010, 24, 312-319.	2.2	55
42	Stability of plasma and erythrocyte fatty acid composition during cold storage. Clinica Chimica Acta, 2002, 321, 63-67.	1.1	53
43	Is there something special about palmitoleate?. Current Opinion in Clinical Nutrition and Metabolic Care, 2013, 16, 225-231.	2.5	53
44	AKR1D1 is a novel regulator of metabolic phenotype in human hepatocytes and is dysregulated in non-alcoholic fatty liver disease. Metabolism: Clinical and Experimental, 2019, 99, 67-80.	3.4	52
45	Docosahexaenoic acid enrichment in NAFLD is associated with improvements in hepatic metabolism and hepatic insulin sensitivity: a pilot study. European Journal of Clinical Nutrition, 2017, 71, 973-979.	2.9	51
46	Dual-5Î±-Reductase Inhibition Promotes Hepatic Lipid Accumulation in Man. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 103-113.	3.6	50
47	Substrate Utilization by the Failing Human Heart by Direct Quantification Using Arterio-Venous Blood Sampling. PLoS ONE, 2009, 4, e7533.	2.5	48
48	Preeclampsia Is Associated With Compromised Maternal Synthesis of Long-Chain Polyunsaturated Fatty Acids, Leading to Offspring Deficiency. Hypertension, 2012, 60, 1078-1085.	2.7	48
49	In vitro cellular models of human hepatic fatty acid metabolism: differences between Huh7 and HepG2 cell lines in human and fetal bovine culturing serum. Physiological Reports, 2017, 5, e13532.	1.7	48
50	Adipose tissue oxygenation. Adipocyte, 2014, 3, 75-80.	2.8	46
51	The influence of dietary fatty acids on liver fat content and metabolism. Proceedings of the Nutrition Society, 2020, 79, 30-41.	1.0	46
52	Hepatic de novo lipogenesis is suppressed and fat oxidation is increased by omega-3 fatty acids at the expense of glucose metabolism. BMJ Open Diabetes Research and Care, 2020, 8, e000871.	2.8	46
53	Lower resting and total energy expenditure in postmenopausal compared with premenopausal women matched for abdominal obesity. Journal of Nutritional Science, 2014, 3, e3.	1.9	44
54	Menopausal Status and Abdominal Obesity Are Significant Determinants of Hepatic Lipid Metabolism in Women. Journal of the American Heart Association, 2015, 4, e002258.	3.7	44

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55	Dietary Approaches to Stop Hypertension (DASH) diet: applicability and acceptability to a UK population. Journal of Human Nutrition and Dietetics, 2010, 23, 3-10.	2.5	42
56	The Importance of the Fatty Acid Transporter L-Carnitine in Non-Alcoholic Fatty Liver Disease (NAFLD). Nutrients, 2020, 12, 2178.	4.1	42
57	Metabolic Inflexibility Is an Early Marker of Bed-Restâ€“Induced Glucose Intolerance Even When Fat Mass Is Stable. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 1910-1920.	3.6	40
58	Intrahepatic Fat and Postprandial Glycemia Increase After Consumption of a Diet Enriched in Saturated Fat Compared With Free Sugars. Diabetes Care, 2020, 43, 1134-1141.	8.6	38
59	The Effect of Blood Ketone Concentration and Exercise Intensity on Exogenous Ketone Oxidation Rates in Athletes. Medicine and Science in Sports and Exercise, 2021, 53, 505-516.	0.4	38
60	Fasting Plasma Insulin Concentrations Are Associated With Changes in Hepatic Fatty Acid Synthesis and Partitioning Prior to Changes in Liver Fat Content in Healthy Adults. Diabetes, 2016, 65, 1858-1867.	0.6	37
61	Sex Differences in Hepatic De Novo Lipogenesis with Acute Fructose Feeding. Nutrients, 2018, 10, 1263.	4.1	35
62	Nuclear receptor REVERBÎ± is a state-dependent regulator of liver energy metabolism. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25869-25879.	7.1	34
63	From whole body to cellular models of hepatic triglyceride metabolism: man has got to know his limitations. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E1-E20.	3.5	30
64	The isolation of primary hepatocytes from human tissue: optimising the use of small non-encapsulated liver resection surplus. Cell and Tissue Banking, 2017, 18, 597-604.	1.1	30
65	Patients With Aldolase B Deficiency Are Characterized by Increased Intrahepatic Triglyceride Content. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 5056-5064.	3.6	30
66	Managing NAFLD in TypeÂ2 Diabetes: The Effect of Lifestyle Interventions, a Narrative Review. Advances in Therapy, 2020, 37, 1381-1406.	2.9	29
67	A Single Day of Excessive Dietary Fat Intake Reduces Whole-Body Insulin Sensitivity: The Metabolic Consequence of Binge Eating. Nutrients, 2017, 9, 818.	4.1	27
68	Removal of triacylglycerols from chylomicrons and VLDL by capillary beds: the basis of lipoprotein remnant formation. Biochemical Society Transactions, 2007, 35, 472-476.	3.4	26
69	Fatty Acid Metabolism in Patients with PPARÎ³ Mutations. Journal of Clinical Endocrinology and Metabolism, 2008, 93, 4462-4470.	3.6	26
70	Chylomicron-Derived Fatty Acid Spillover in Adipose Tissue: A Signature of Metabolic Health?. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 25-34.	3.6	26
71	Characterization of lipid metabolism in a novel immortalized human hepatocyte cell line. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E511-E522.	3.5	24
72	Accumulation of saturated intramyocellular lipid is associated with insulin resistance. Journal of Lipid Research, 2019, 60, 1323-1332.	4.2	24

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73	Total Fatty Acid Analysis of Human Blood Samples in One Minute by High-Resolution Mass Spectrometry. Biomolecules, 2019, 9, 7.	4.0	24
74	Adipocyte NR1D1 dictates adipose tissue expansion during obesity. ELife, 2021, 10, .	6.0	24
75	Of mice and men: Is there a future for metformin in the treatment of hepatic steatosis?. Diabetes, Obesity and Metabolism, 2019, 21, 749-760.	4.4	23
76	Trafficking and partitioning of fatty acids: the transition from fasted to fed state. Clinical Lipidology, 2010, 5, 131-144.	0.4	21
77	Hepatocyte-specific IKK-Î² activation enhances VLDL-triglyceride production in APOE*3-Leiden mice. Journal of Lipid Research, 2011, 52, 942-950.	4.2	21
78	Optimizing human hepatocyte models for metabolic phenotype and function: effects of treatment with dimethyl sulfoxide (DMSO). Physiological Reports, 2016, 4, e12944.	1.7	21
79	A cellular model for the investigation of depot specific human adipocyte biology. Adipocyte, 2017, 6, 40-55.	2.8	21
80	Relevance of human fat distribution on lipid and lipoprotein metabolism and cardiovascular disease risk. Current Opinion in Lipidology, 2018, 29, 285-292.	2.7	21
81	Fasting hepatic de novo lipogenesis is not reliably assessed using circulating fatty acid markers. American Journal of Clinical Nutrition, 2019, 109, 260-268.	4.7	21
82	Exercise performed immediately after fructose ingestion enhances fructose oxidation and suppresses fructose storage. American Journal of Clinical Nutrition, 2016, 103, 348-355.	4.7	20
83	The storage stability and concentration of acetoacetate differs between blood fractions. Clinica Chimica Acta, 2014, 433, 278-283.	1.1	18
84	Serum Fatty Acid Reference Ranges: Percentiles from a New Zealand National Nutrition Survey. Nutrients, 2011, 3, 152-163.	4.1	17
85	Challenging metabolic tissues with fructose: tissueâ€specific and sexâ€specific responses. Journal of Physiology, 2019, 597, 3527-3537.	2.9	17
86	The PNPLA3â€I148M variant increases polyunsaturated triglycerides in human adipose tissue. Liver International, 2020, 40, 2128-2138.	3.9	17
87	AKR1D1 regulates glucocorticoid availability and glucocorticoid receptor activation in human hepatoma cells. Journal of Steroid Biochemistry and Molecular Biology, 2019, 189, 218-227.	2.5	16
88	Studying non-alcoholic fatty liver disease: the ins and outs of in vivo, ex vivo and in vitro human models. Hormone Molecular Biology and Clinical Investigation, 2020, 41, .	0.7	15
89	Effect of supplementation with flaxseed oil and different doses of fish oil for 2 weeks on plasma phosphatidylcholine fatty acids in young women. European Journal of Clinical Nutrition, 2018, 72, 832-840.	2.9	15
90	Dysregulation of hepatic metabolism with obesity: factors influencing glucose and lipid metabolism. Proceedings of the Nutrition Society, 2022, 81, 1-11.	1.0	15

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91	Maximal response to a plasma cholesterol-lowering diet is achieved within two weeks. Nutrition, Metabolism and Cardiovascular Diseases, 2002, 12, 291-5.	2.6	15
92	Caution on the Interpretation of Plasma Fatty Acid Composition as a Proxy Marker for SCD1 Activity: Particular Implications for Using the 16:1/16:0 Ratio in QTL Studies Involving Hyperlipidemic Patients. Arteriosclerosis, Thrombosis, and Vascular Biology, 2008, 28, e152; author reply e153.	2.4	14
93	Effects of rouxâ€enâ€Y gastric bypass surgery on postprandial fructose metabolism. Obesity, 2016, 24, 589-596.	3.0	14
94	Measuring Human Lipid Metabolism Using Deuterium Labeling: In Vivo and In Vitro Protocols. Methods in Molecular Biology, 2019, 1862, 83-96.	0.9	12
95	Overfeeding Saturated Fat Increases LDL (Low-Density Lipoprotein) Aggregation Susceptibility While Overfeeding Unsaturated Fat Decreases Proteoglycan-Binding of Lipoproteins. Arteriosclerosis, Thrombosis, and Vascular Biology, 2021, 41, 2823-2836.	2.4	12
96	Hyperinsulinaemia: does it tip the balance toward intrahepatic fat accumulation?. Endocrine Connections, 2019, 8, R157-R168.	1.9	12
97	Metformin maintains intrahepatic triglyceride content through increased hepatic de novo lipogenesis. European Journal of Endocrinology, 2022, 186, 367-377.	3.7	12
98	Oxidation of dietary linoleate occurs to a greater extent than dietary palmitate inÂvivo in humans. Clinical Nutrition, 2021, 40, 1108-1114.	5.0	11
99	Relationship between de novo lipogenesis and serum sex hormone binding globulin in humans. Clinical Endocrinology, 2021, 95, 101-106.	2.4	11
100	Sodiumâ€glucose cotransporter 2 inhibition does not reduce hepatic steatosis in overweight, insulinâ€resistant patients without type 2 diabetes. JGH Open, 2020, 4, 433-440.	1.6	10
101	Triglycerideâ€rich lipoprotein metabolism in women: roles of apoCâ€<scp>II</scp> and apoCâ€<scp>III</scp>. European Journal of Clinical Investigation, 2016, 46, 730-736.	3.4	9
102	Co-administration of 5Î±-reductase Inhibitors Worsens the Adverse Metabolic Effects of Prescribed Glucocorticoids. Journal of Clinical Endocrinology and Metabolism, 2020, 105, e3316-e3328.	3.6	9
103	The role of 5-reduction in physiology and metabolic disease: evidence from cellular, pre-clinical and human studies. Journal of Steroid Biochemistry and Molecular Biology, 2021, 207, 105808.	2.5	9
104	Glucocorticoids regulate AKR1D1 activity in human liver in vitro and in vivo. Journal of Endocrinology, 2020, 245, 207-218.	2.6	9
105	Independent effects of circulating glucose, insulin and NEFA on cardiac triacylglycerol accumulation and myocardial insulin resistance in a swine model. Diabetologia, 2014, 57, 1937-1946.	6.3	8
106	Non-alcoholic fatty liver disease concerns with glucokinase activators. Lancet Diabetes and Endocrinology,the, 2018, 6, 684-685.	11.4	8
107	The effects of endogenouslyâ€and exogenouslyâ€induced hyperketonemia on exercise performance and adaptation. Physiological Reports, 2022, 10, .	1.7	8
108	The role of glucose, insulin and NEFA in regulating tissue triglyceride accumulation: Substrate cooperation in adipose tissue versus substrate competition in skeletal muscle. Nutrition, Metabolism and Cardiovascular Diseases, 2017, 27, 956-963.	2.6	7

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109	Modifying nutritional substrates induces macrovesicular lipid droplet accumulation and metabolic alterations in a cellular model of hepatic steatosis. Physiological Reports, 2020, 8, e14482.	1.7	7
110	Micro-techniques for analysis of human adipose tissue fatty acid composition in dietary studies. Nutrition, Metabolism and Cardiovascular Diseases, 2013, 23, 1128-1133.	2.6	6
111	Compositional marker in vivo reveals intramyocellular lipid turnover during fasting-induced lipolysis. Scientific Reports, 2018, 8, 2750.	3.3	6
112	Lifestyle interventions affecting hepatic fatty acid metabolism. Current Opinion in Clinical Nutrition and Metabolic Care, 2020, 23, 373-379.	2.5	6
113	Î²-Hydroxybutyrate Oxidation in Exercise Is Impaired by Low-Carbohydrate and High-Fat Availability. Frontiers in Medicine, 2021, 8, 721673.	2.6	6
114	Soat2 ties cholesterol metabolism to Î²â€oxidation and glucose tolerance in male mice. Journal of Internal Medicine, 2022, 292, 296-307.	6.0	6
115	Acute intermittent hypoxia drives hepatic de novo lipogenesis in humans and rodents. Metabolism Open, 2022, 14, 100177.	2.9	6
116	Intrahepatic triglyceride content: influence of metabolic and genetics drivers. Current Opinion in Clinical Nutrition and Metabolic Care, 2022, 25, 241-247.	2.5	6
117	Prolyl-4-hydroxylase 3 maintains Î² cell glucose metabolism during fatty acid excess in mice. JCI Insight, 2021, 6, .	5.0	5
118	Obesity Due to Steroid Receptor Coactivator-1 Deficiency Is Associated With Endocrine and Metabolic Abnormalities. Journal of Clinical Endocrinology and Metabolism, 2022, 107, e2532-e2544.	3.6	5
119	Dietary fat and insulin sensitivity. Diabetologia, 2010, 53, 799-801.	6.3	4
120	Physiological and pathophysiological concentrations of fatty acids induce lipid droplet accumulation and impair functional performance of tissue engineered skeletal muscle. Journal of Cellular Physiology, 2021, 236, 7033-7044.	4.1	4
121	Effects on hepatic lipid metabolism in human hepatoma cells following overexpression of TGFÎ² induced factor homeobox 1 or 2. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2019, 1864, 756-762.	2.4	3
122	Using total plasma triacylglycerol to assess hepatic de novo lipogenesis as an alternative to VLDL triacylglycerol. Upsala Journal of Medical Sciences, 2020, 125, 211-216.	0.9	3
123	Use of Biobanks in Nutrition Research. , 2015, , 141-150.		1
124	The influence of nutritional state on the fatty acid composition of circulating lipid fractions: implications for their use as biomarkers of dietary fat intake. Upsala Journal of Medical Sciences, 2021, 126, .	0.9	1
125	A large waist circumference is associated with higher liver fat in healthy pre-menopausal women in the absence of classical biochemical risk factors for CVD. Proceedings of the Nutrition Society, 2011, 70, .	1.0	0
126	The influence of dietary fat and free sugars on liver fat content and metabolism. Proceedings of the Nutrition Society, 2018, 77, .	1.0	0

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127	Editorial: Foods and Macronutrients in NAFLD: Associations, Effects and Mechanisms. Frontiers in Nutrition, 2021, 8, 665436.	3.7	0
128	Exercise Prevents Fructoseâ€Induced Hypertriglyceridemia in Healthy Young Males. FASEB Journal, 2012, 26, 1032.2.	0.5	0