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	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
2	Dysregulation of hepatic metabolism with obesity: factors influencing glucose and lipid metabolism. Proceedings of the Nutrition Society, 2022, 81, 1-11.	1.0	15
3	Metformin maintains intrahepatic triglyceride content through increased hepatic de novo lipogenesis. European Journal of Endocrinology, 2022, 186, 367-377.	3.7	12
4	Soat2 ties cholesterol metabolism to Î²â€oxidation and glucose tolerance in male mice. Journal of Internal Medicine, 2022, 292, 296-307.	6.0	6
5	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
6	Acute intermittent hypoxia drives hepatic de novo lipogenesis in humans and rodents. Metabolism Open, 2022, 14, 100177.	2.9	6
7	The effects of endogenouslyâ€•and exogenouslyâ€‘induced hyperketonemia on exercise performance and adaptation. Physiological Reports, 2022, 10, .	1.7	8
8	Intrahepatic triglyceride content: influence of metabolic and genetics drivers. Current Opinion in Clinical Nutrition and Metabolic Care, 2022, 25, 241-247.	2.5	6
9	Oxidation of dietary linoleate occurs to a greater extent than dietary palmitate inÂvivo in humans. Clinical Nutrition, 2021, 40, 1108-1114.	5.0	11
10	Editorial: Foods and Macronutrients in NAFLD: Associations, Effects and Mechanisms. Frontiers in Nutrition, 2021, 8, 665436.	3.7	0
11	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
12	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
13	Relationship between de novo lipogenesis and serum sex hormone binding globulin in humans. Clinical Endocrinology, 2021, 95, 101-106.	2.4	11
14	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
15	Dietary carbohydrates and fats in nonalcoholic fatty liver disease. Nature Reviews Gastroenterology and Hepatology, 2021, 18, 770-786.	17.8	108
16	Prolyl-4-hydroxylase 3 maintains Î² cell glucose metabolism during fatty acid excess in mice. JCI Insight, 2021, 6, .	5.0	5
17	Adipocyte NR1D1 dictates adipose tissue expansion during obesity. ELife, 2021, 10, .	6.0	24
18	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

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19	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
20	Î²-Hydroxybutyrate Oxidation in Exercise Is Impaired by Low-Carbohydrate and High-Fat Availability. Frontiers in Medicine, 2021, 8, 721673.	2.6	6
21	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
22	The influence of dietary fatty acids on liver fat content and metabolism. Proceedings of the Nutrition Society, 2020, 79, 30-41.	1.0	46
23	Nonalcoholic Fatty Liver Disease in Adults: Current Concepts in Etiology, Outcomes, and Management. Endocrine Reviews, 2020, 41, 66-117.	20.1	134
24	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
25	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
26	Lifestyle interventions affecting hepatic fatty acid metabolism. Current Opinion in Clinical Nutrition and Metabolic Care, 2020, 23, 373-379.	2.5	6
27	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
28	The Importance of the Fatty Acid Transporter L-Carnitine in Non-Alcoholic Fatty Liver Disease (NAFLD). Nutrients, 2020, 12, 2178.	4.1	42
29	The PNPLA3â€I148M variant increases polyunsaturated triglycerides in human adipose tissue. Liver International, 2020, 40, 2128-2138.	3.9	17
30	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
31	Managing NAFLD in TypeÂ2 Diabetes: The Effect of Lifestyle Interventions, a Narrative Review. Advances in Therapy, 2020, 37, 1381-1406.	2.9	29
32	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
33	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
34	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
35	Hydroxysteroid 17-Î² dehydrogenase 13 variant increases phospholipids and protects against fibrosis in nonalcoholic fatty liver disease. JCI Insight, 2020, 5, .	5.0	62
36	Glucocorticoids regulate AKR1D1 activity in human liver in vitro and in vivo. Journal of Endocrinology, 2020, 245, 207-218.	2.6	9

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37	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
38	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
39	The regulation of hepatic fatty acid synthesis and partitioning: the effect of nutritional state. Nature Reviews Endocrinology, 2019, 15, 689-700.	9.6	138
40	Transient Cold Storage Prior to Normothermic Liver Perfusion May Facilitate Adoption of a Novel Technology. Liver Transplantation, 2019, 25, 1503-1513.	2.4	63
41	Accumulation of saturated intramyocellular lipid is associated with insulin resistance. Journal of Lipid Research, 2019, 60, 1323-1332.	4.2	24
42	Challenging metabolic tissues with fructose: tissueâ€specific and sexâ€specific responses. Journal of Physiology, 2019, 597, 3527-3537.	2.9	17
43	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
44	Evidence for an alternative fatty acid desaturation pathway increasing cancer plasticity. Nature, 2019, 566, 403-406.	27.8	326
45	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
46	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
47	Total Fatty Acid Analysis of Human Blood Samples in One Minute by High-Resolution Mass Spectrometry. Biomolecules, 2019, 9, 7.	4.0	24
48	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
49	Measuring Human Lipid Metabolism Using Deuterium Labeling: In Vivo and In Vitro Protocols. Methods in Molecular Biology, 2019, 1862, 83-96.	0.9	12
50	Human PNPLA3-I148M variant increases hepatic retention of polyunsaturated fatty acids. JCI Insight, 2019, 4, .	5.0	93
51	Hyperinsulinaemia: does it tip the balance toward intrahepatic fat accumulation?. Endocrine Connections, 2019, 8, R157-R168.	1.9	12
52	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
53	Compositional marker in vivo reveals intramyocellular lipid turnover during fasting-induced lipolysis. Scientific Reports, 2018, 8, 2750.	3.3	6
54	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

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55	The influence of dietary fat and free sugars on liver fat content and metabolism. Proceedings of the Nutrition Society, 2018, 77, .	1.0	0
56	Sex Differences in Hepatic De Novo Lipogenesis with Acute Fructose Feeding. Nutrients, 2018, 10, 1263.	4.1	35
57	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
58	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
59	Non-alcoholic fatty liver disease concerns with glucokinase activators. Lancet Diabetes and Endocrinology,the, 2018, 6, 684-685.	11.4	8
60	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
61	A cellular model for the investigation of depot specific human adipocyte biology. Adipocyte, 2017, 6, 40-55.	2.8	21
62	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
63	Influence of Dietary Macronutrients on Liver Fat Accumulation and Metabolism. Journal of Investigative Medicine, 2017, 65, 1102-1115.	1.6	104
64	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
65	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
66	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
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	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
69	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
70	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
71	Optimizing human hepatocyte models for metabolic phenotype and function: effects of treatment with dimethyl sulfoxide (DMSO). Physiological Reports, 2016, 4, e12944.	1.7	21
72	Effects of rouxâ€enâ€Y gastric bypass surgery on postprandial fructose metabolism. Obesity, 2016, 24, 589-596.	3.0	14

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73	Dual-5Î±-Reductase Inhibition Promotes Hepatic Lipid Accumulation in Man. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 103-113.	3.6	50
74	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
75	Use of Biobanks in Nutrition Research. , 2015, , 141-150.		1
76	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
77	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
78	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
79	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
80	The Influence of Dietary Fat on Liver Fat Accumulation. Nutrients, 2014, 6, 5018-5033.	4.1	100
81	Metabolic Fate of Fructose Ingested with and without Glucose in a Mixed Meal. Nutrients, 2014, 6, 2632-2649.	4.1	87
82	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
83	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
84	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
85	Adipose tissue oxygenation. Adipocyte, 2014, 3, 75-80.	2.8	46
86	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
87	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
88	The storage stability and concentration of acetoacetate differs between blood fractions. Clinica Chimica Acta, 2014, 433, 278-283.	1.1	18
89	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
90	Exercise Prevents Fructose-Induced Hypertriglyceridemia in Healthy Young Subjects. Diabetes, 2013, 62, 2259-2265.	0.6	89

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91	Stearoyl-CoA desaturase: rogue or innocent bystander?. Progress in Lipid Research, 2013, 52, 15-42.	11.6	179
92	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
93	Metabolic Signatures of Human Adipose Tissue Hypoxia in Obesity. Diabetes, 2013, 62, 1417-1425.	0.6	106
94	Is there something special about palmitoleate?. Current Opinion in Clinical Nutrition and Metabolic Care, 2013, 16, 225-231.	2.5	53
95	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
96	Gluteofemoral Adipose Tissue Plays a Major Role in Production of the Lipokine Palmitoleate in Humans. Diabetes, 2012, 61, 1399-1403.	0.6	84
97	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
98	Exercise Prevents Fructoseâ€Induced Hypertriglyceridemia in Healthy Young Males. FASEB Journal, 2012, 26, 1032.2.	0.5	0
99	Downregulation of Adipose Tissue Fatty Acid Trafficking in Obesity. Diabetes, 2011, 60, 47-55.	0.6	397
100	Serum Fatty Acid Reference Ranges: Percentiles from a New Zealand National Nutrition Survey. Nutrients, 2011, 3, 152-163.	4.1	17
101	Hepatic fatty acid partitioning. Current Opinion in Lipidology, 2011, 22, 216-224.	2.7	62
102	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
103	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
104	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
105	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
106	Trafficking and partitioning of fatty acids: the transition from fasted to fed state. Clinical Lipidology, 2010, 5, 131-144.	0.4	21
107	Dietary fat and insulin sensitivity. Diabetologia, 2010, 53, 799-801.	6.3	4
108	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

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109	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
110	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
111	Does the DASH diet lower blood pressure by altering peripheral vascular function?. Journal of Human Hypertension, 2010, 24, 312-319.	2.2	55
112	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
113	Substrate Utilization by the Failing Human Heart by Direct Quantification Using Arterio-Venous Blood Sampling. PLoS ONE, 2009, 4, e7533.	2.5	48
114	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
115	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
116	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
117	Chronic Palmitate Exposure Inhibits Insulin Secretion by Dissociation of Ca2+ Channels from Secretory Granules. Cell Metabolism, 2009, 10, 455-465.	16.2	131
118	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
119	Fatty Acid Metabolism in Patients with PPARÎ³ Mutations. Journal of Clinical Endocrinology and Metabolism, 2008, 93, 4462-4470.	3.6	26
120	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
121	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
122	Preferential Uptake of Dietary Fatty Acids in Adipose Tissue and Muscle in the Postprandial Period. Diabetes, 2007, 56, 168-176.	0.6	209
123	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
124	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
125	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
126	Stability of plasma and erythrocyte fatty acid composition during cold storage. Clinica Chimica Acta, 2002, 321, 63-67.	1.1	53

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127	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
128	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