Marcus StÃ¥hlman

List of Publications by Year
in descending order

124 papers	9,972 citations	57758 44 h-index	38395 95 g-index
132 all docs	132 docs citations	132 times ranked	15557 citing authors

#	Article	IF	Citations
1	Metformin alters the gut microbiome of individuals with treatment-naive type 2 diabetes, contributing to the therapeutic effects of the drug. Nature Medicine, 2017, 23, 850-858.	30.7	1,165
2	Roux-en-Y Gastric Bypass and Vertical Banded Gastroplasty Induce Long-Term Changes on the Human Gut Microbiome Contributing to Fat Mass Regulation. Cell Metabolism, 2015, 22, 228-238.	16.2	638
3	Microbially Produced Imidazole Propionate Impairs Insulin Signaling through mTORC1. Cell, 2018, 175, 947-961.e17.	28.9	517
4	Microbiome of prebiotic-treated mice reveals novel targets involved in host response during obesity. ISME Journal, 2014, 8, 2116-2130.	9.8	491
5	Bifidobacteria or Fiber Protects against Diet-Induced Microbiota-Mediated Colonic Mucus Deterioration. Cell Host and Microbe, 2018, 23, 27-40.e7.	11.0	477
6	Microbiota-induced obesity requires farnesoid X receptor. Gut, 2017, 66, 429-437.	12.1	355
7	An Integrated Understanding of the Rapid Metabolic Benefits of a Carbohydrate-Restricted Diet on Hepatic Steatosis in Humans. Cell Metabolism, 2018, 27, 559-571.e5.	16.2	321
8	The Gut Microbiota Modulates Energy Metabolism in the Hibernating Brown Bear Ursus arctos. Cell Reports, 2016, 14, 1655-1661.	6.4	290
9	Altered Microbiota Contributes to Reduced Diet-Induced Obesity upon Cold Exposure. Cell Metabolism, 2016, 23, 1216-1223.	16.2	274
10	The BUME method: a novel automated chloroform-free 96-well total lipid extraction method for blood plasma. Journal of Lipid Research, 2012, 53, 1690-1700.	4.2	273
11	Patatin-like phospholipase domain-containing 3 (PNPLA3) I148M (rs738409) affects hepatic VLDL secretion in humans and in vitro. Journal of Hepatology, 2012, 57, 1276-1282.	3.7	232
12	Metabolic effects of <scp>L</scp>actobacillus reuteri<scp>DSM</scp> 17938 in people with type 2 diabetes: <scp>A</scp> randomized controlled trial. Diabetes, Obesity and Metabolism, 2017, 19, 579-589.	4.4	199
13	High-throughput shotgun lipidomics by quadrupole time-of-flight mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 2664-2672.	2.3	197
14	Donor metabolic characteristics drive effects of faecal microbiota transplantation on recipient insulin sensitivity, energy expenditure and intestinal transit time. Gut, 2020, 69, 502-512.	12.1	188
15	Hypoxia Converts Human Macrophages Into Triglyceride-Loaded Foam Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 1871-1876.	2.4	149
16	Personal modelâ€assisted identification of NAD⁺ andÂglutathione metabolism as intervention target in NAFLD. Molecular Systems Biology, 2017, 13, 916.	7.2	147
17	The BUME method: a new rapid and simple chloroform-free method for total lipid extraction of animal tissue. Scientific Reports, 2016, 6, 27688.	3.3	145
18	Inhibition of intestinal bile acid absorption improves cholestatic liver and bile duct injury in a mouse model of sclerosing cholangitis. Journal of Hepatology, 2016, 64, 674-681.	3.7	143

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19	Pnpla3 silencing with antisense oligonucleotides ameliorates nonalcoholic steatohepatitis and fibrosis in Pnpla3 I148M knock-in mice. Molecular Metabolism, 2019, 22, 49-61.	6.5	140
20	The VLDL receptor promotes lipotoxicity and increases mortality in mice following an acute myocardial infarction. Journal of Clinical Investigation, 2011, 121, 2625-2640.	8.2	133
21	Sphingolipids Contribute to Human Atherosclerotic Plaque Inflammation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 1132-1140.	2.4	129
22	Hepatocyte MyD88 affects bile acids, gut microbiota and metabolome contributing to regulate glucose and lipid metabolism. Gut, 2017, 66, 620-632.	12.1	125
23	Overeating Saturated Fat Promotes Fatty Liver and Ceramides Compared With Polyunsaturated Fat: A Randomized Trial. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 6207-6219.	3.6	124
24	Imidazole propionate is increased in diabetes and associated with dietary patterns and altered microbial ecology. Nature Communications, 2020, 11, 5881.	12.8	122
25	ApoCIII-Enriched LDL in Type 2 Diabetes Displays Altered Lipid Composition, Increased Susceptibility for Sphingomyelinase, and Increased Binding to Biglycan. Diabetes, 2009, 58, 2018-2026.	0.6	116
26	Network analyses identify liverâ€specific targets for treating liver diseases. Molecular Systems Biology, 2017, 13, 938.	7.2	112
27	Dyslipidemia, but not hyperglycemia and insulin resistance, is associated with marked alterations in the HDL lipidome in type 2 diabetic subjects in the DIWA cohort: Impact on small HDL particles. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2013, 1831, 1609-1617.	2.4	97
28	PAQR-2 Regulates Fatty Acid Desaturation during Cold Adaptation in C. elegans. PLoS Genetics, 2013, 9, e1003801.	3.5	96
29	Proteomics and lipids of lipoproteins isolated at low salt concentrations in D2O/sucrose or in KBr. Journal of Lipid Research, 2008, 49, 481-490.	4.2	88
30	A mouse model reveals an important role for catecholamineâ€induced lipotoxicity in the pathogenesis of stressâ€induced cardiomyopathy. European Journal of Heart Failure, 2013, 15, 9-22.	7.1	83
31	Crosstalk between Bile Acids and Gut Microbiota and Its Impact on Farnesoid X Receptor Signalling. Digestive Diseases, 2017, 35, 246-250.	1.9	80
32	Hypothalamic bile acid-TGR5 signaling protects from obesity. Cell Metabolism, 2021, 33, 1483-1492.e10.	16.2	79
33	Protein kinase STK25 regulates hepatic lipid partitioning and progression of liver steatosis and NASH. FASEB Journal, 2015, 29, 1564-1576.	0.5	72
34	Induction of farnesoid X receptor signaling in germ-free mice colonized with a human microbiota. Journal of Lipid Research, 2017, 58, 412-419.	4.2	66
35	Gut microbiota depletion exacerbates cholestatic liver injury via loss of FXR signalling. Nature Metabolism, 2021, 3, 1228-1241.	11.9	65
36	Hepatic saturated fatty acid fraction is associated with de novo lipogenesis and hepatic insulin resistance. Nature Communications, 2020, 11, 1891.	12.8	63

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37	Pilot study with IBAT inhibitor A4250 for the treatment of cholestatic pruritus in primary biliary cholangitis. Scientific Reports, 2018, 8, 6658.	3.3	61
38	Endogenous FGF21-signaling controls paradoxical obesity resistance of UCP1-deficient mice. Nature Communications, 2020, 11, 624.	12.8	60
39	Impairment of bile acid metabolism by perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) in human HepaRG hepatoma cells. Archives of Toxicology, 2020, 94, 1673-1686.	4.2	60
40	A LC-MSâ€“based workflow for measurement of branched fatty acid esters of hydroxy fatty acids. Nature Protocols, 2016, 11, 747-763.	12.0	58
41	AdipoR1 and AdipoR2 maintain membrane fluidity in most human cell types and independently of adiponectin. Journal of Lipid Research, 2019, 60, 995-1004.	4.2	57
42	Caenorhabditis elegans PAQR-2 and IGLR-2 Protect against Glucose Toxicity by Modulating Membrane Lipid Composition. PLoS Genetics, 2016, 12, e1005982.	3.5	53
43	Colesevelam attenuates cholestatic liver and bile duct injury in Mdr2^{â^'/â^'} mice by modulating composition, signalling and excretion of faecal bile acids. Gut, 2018, 67, 1683-1691.	12.1	53
44	Associations between Dietary Patterns and Bile Acidsâ€”Results from a Cross-Sectional Study in Vegans and Omnivores. Nutrients, 2020, 12, 47.	4.1	50
45	Increased Expression of the Very Low-Density Lipoprotein Receptor Mediates Lipid Accumulation in Clear-Cell Renal Cell Carcinoma. PLoS ONE, 2012, 7, e48694.	2.5	50
46	Targeting GGTase-I Activates RHOA, Increases Macrophage Reverse Cholesterol Transport, and Reduces Atherosclerosis in Mice. Circulation, 2013, 127, 782-790.	1.6	47
47	Genetic Disruption of Protein Kinase STK25 Ameliorates Metabolic Defects in a Diet-Induced Type 2 Diabetes Model. Diabetes, 2015, 64, 2791-2804.	0.6	47
48	The adiponectin receptor AdipoR2 and its Caenorhabditis elegans homolog PAQR-2 prevent membrane rigidification by exogenous saturated fatty acids. PLoS Genetics, 2017, 13, e1007004.	3.5	47
49	Protein kinase STK25 controls lipid partitioning in hepatocytes and correlates with liver fat content in humans. Diabetologia, 2016, 59, 341-353.	6.3	45
50	NorUrsodeoxycholic acid ameliorates cholemic nephropathy in bile duct ligated mice. Journal of Hepatology, 2017, 67, 110-119.	3.7	44
51	Obeticholic acid may increase the risk of gallstone formation in susceptible patients. Journal of Hepatology, 2019, 71, 986-991.	3.7	44
52	Perilipin 5 is protective in the ischemic heart. International Journal of Cardiology, 2016, 219, 446-454.	1.7	43
53	Vimentin deficiency in macrophages induces increased oxidative stress and vascular inflammation but attenuates atherosclerosis in mice. Scientific Reports, 2018, 8, 16973.	3.3	43
54	STK25 is a critical determinant in nonalcoholic steatohepatitis. FASEB Journal, 2016, 30, 3628-3643.	0.5	41

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55	Targeting acid sphingomyelinase reduces cardiac ceramide accumulation in the post-ischemic heart. Journal of Molecular and Cellular Cardiology, 2016, 93, 69-72.	1.9	40
56	Rip2 Deficiency Leads to Increased Atherosclerosis Despite Decreased Inflammation. Circulation Research, 2011, 109, 1210-1218.	4.5	39
57	The acute effect of metabolic cofactor supplementation: a potential therapeutic strategy against nonâ€alcoholic fatty liver disease. Molecular Systems Biology, 2020, 16, e9495.	7.2	39
58	Effects of TM6SF2 E167K on hepatic lipid and very low-density lipoprotein metabolism in humans. JCI Insight, 2020, 5, .	5.0	38
59	Membrane fluidity is regulated by the C.Âelegans transmembrane protein FLD-1 and its human homologs TLCD1/2. ELife, 2018, 7, .	6.0	38
60	Overexpression of protein kinase STK25 in mice exacerbates ectopic lipid accumulation, mitochondrial dysfunction and insulin resistance in skeletal muscle. Diabetologia, 2017, 60, 553-567.	6.3	37
61	Human iPSC-based models highlight defective glial and neuronal differentiation from neural progenitor cells in metachromatic leukodystrophy. Cell Death and Disease, 2018, 9, 698.	6.3	37
62	Pyruvate kinase L/R is a regulator of lipid metabolism and mitochondrial function. Metabolic Engineering, 2019, 52, 263-272.	7.0	37
63	Serine/threonine protein kinase 25 antisense oligonucleotide treatment reverses glucose intolerance, insulin resistance, and nonalcoholic fatty liver disease in mice. Hepatology Communications, 2018, 2, 69-83.	4.3	35
64	Dietary Omega-3 Fatty Acids Increase Survival and Decrease Bacterial Load in Mice Subjected to Staphylococcus aureus-Induced Sepsis. Infection and Immunity, 2016, 84, 1205-1213.	2.2	34
65	Plin2-deficiency reduces lipophagy and results in increased lipid accumulation in the heart. Scientific Reports, 2019, 9, 6909.	3.3	30
66	Characterization of different fat depots in NAFLD using inflammation-associated proteome, lipidome and metabolome. Scientific Reports, 2018, 8, 14200.	3.3	28
67	Obesity-associated microbiota contributes to mucus layer defects in genetically obese mice. Journal of Biological Chemistry, 2020, 295, 15712-15726.	3.4	28
68	Ursodeoxycholic acid enriches intestinal bile salt hydrolase-expressing Bacteroidetes in cholestatic pregnancy. Scientific Reports, 2020, 10, 3895.	3.3	27
69	Impact of proprotein convertase subtilisin/kexin type 9 inhibition with evolocumab on the postprandial responses of triglyceride-rich lipoproteins in type II diabetic subjects. Journal of Clinical Lipidology, 2020, 14, 77-87.	1.5	26
70	Liver receptor homologâ€1 is a critical determinant of methylâ€pool metabolism. Hepatology, 2016, 63, 95-106.	7.3	24
71	Lipid droplet-associated kinase STK25 regulates peroxisomal activity and metabolic stress response in steatotic liver. Journal of Lipid Research, 2020, 61, 178-191.	4.2	23
72	Cholesteryl Esters Accumulate in the Heart in a Porcine Model of Ischemia and Reperfusion. PLoS ONE, 2013, 8, e61942.	2.5	23

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73	Evolutionarily conserved long-chain Acyl-CoA synthetases regulate membrane composition and fluidity. ELife, 2019, 8, .	6.0	22
74	Protein kinase MST3 modulates lipid homeostasis in hepatocytes and correlates with nonalcoholic steatohepatitis in humans. FASEB Journal, 2019, 33, 9974-9989.	0.5	20
75	The Importance of GLUT3 for De Novo Lipogenesis in Hypoxia-Induced Lipid Loading of Human Macrophages. PLoS ONE, 2012, 7, e42360.	2.5	18
76	Deficiency in perilipin 5 reduces mitochondrial function and membrane depolarization in mouse hearts. International Journal of Biochemistry and Cell Biology, 2017, 91, 9-13.	2.8	17
77	Zfp148 Deficiency Causes Lung Maturation Defects and Lethality in Newborn Mice That Are Rescued by Deletion of p53 or Antioxidant Treatment. PLoS ONE, 2013, 8, e55720.	2.5	16
78	STK25 regulates oxidative capacity and metabolic efficiency in adipose tissue. Journal of Endocrinology, 2018, 238, 187-202.	2.6	15
79	Mitochondria-Targeted Antioxidants MitoQ and MitoTEMPO Do Not Influence BRAF-Driven Malignant Melanoma and KRAS-Driven Lung Cancer Progression in Mice. Antioxidants, 2021, 10, 163.	5.1	15
80	Antioxidants Promote Intestinal Tumor Progression in Mice. Antioxidants, 2021, 10, 241.	5.1	15
81	Silencing of STE20â€type kinase MST3 in mice with antisense oligonucleotide treatment ameliorates dietâ€induced nonalcoholic fatty liver disease. FASEB Journal, 2021, 35, e21567.	0.5	15
82	ARAP2 promotes GLUT1-mediated basal glucose uptake through regulation of sphingolipid metabolism. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 1643-1651.	2.4	14
83	Absence of Bsep/Abcb11 attenuates MCD dietâ€induced hepatic steatosis but aggravates inflammation in mice. Liver International, 2020, 40, 1366-1377.	3.9	14
84	The C. elegans PAQR-2 and IGLR-2 membrane homeostasis proteins are uniquely essential for tolerating dietary saturated fats. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2021, 1866, 158883.	2.4	14
85	Glucosylceramide synthase deficiency in the heart compromises Î²1-adrenergic receptor trafficking. European Heart Journal, 2021, 42, 4481-4492.	2.2	14
86	Plasma Imidazole Propionate Is Positively Correlated with Blood Pressure in Overweight and Obese Humans. Nutrients, 2021, 13, 2706.	4.1	14
87	Depletion of protein kinase STK25 ameliorates renal lipotoxicity and protects against diabetic kidney disease. JCI Insight, 2020, 5, .	5.0	14
88	High-throughput analysis of sulfatides in cerebrospinal fluid using automated extraction and UPLC-MS/MS. Journal of Lipid Research, 2017, 58, 1482-1489.	4.2	14
89	Establishment of a Transgenic Mouse Model Specifically Expressing Human Serum Amyloid A in Adipose Tissue. PLoS ONE, 2011, 6, e19609.	2.5	13
90	Atrial fibrillation in patients admitted to coronary care units in western Sweden â€“ focus on obesity and lipotoxicity. Journal of Electrocardiology, 2015, 48, 853-860.	0.9	13

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91	Cyp3a11 is not essential for the formation of murine bile acids. Biochemistry and Biophysics Reports, 2017, 10, 70-75.	1.3	13
92	A Shortâ€Term Western Diet Impairs Cholesterol Homeostasis and Key Players of Beta Amyloid Metabolism in Brain of Middle Aged Rats. Molecular Nutrition and Food Research, 2020, 64, 2000541.	3.3	13
93	STE20â€Type Protein Kinase MST4 Controls NAFLD Progression by Regulating Lipid Droplet Dynamics and Metabolic Stress in Hepatocytes. Hepatology Communications, 2021, 5, 1183-1200.	4.3	13
94	Extensive transcription mis-regulation and membrane defects in AdipoR2-deficient cells challenged with saturated fatty acids. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2021, 1866, 158884.	2.4	13
95	A genetic titration of membrane composition in Caenorhabditis elegans reveals its importance for multiple cellular and physiological traits. Genetics, 2021, 219, .	2.9	13
96	Leveraging a gain-of-function allele of Caenorhabditis elegans paqr-1 to elucidate membrane homeostasis by PAQR proteins. PLoS Genetics, 2020, 16, e1008975.	3.5	11
97	Histo-blood group antigens of glycosphingolipids predict susceptibility of human intestinal enteroids to norovirus infection. Journal of Biological Chemistry, 2020, 295, 15974-15987.	3.4	10
98	Association of dietary and gut microbiota-related metabolites with calcific aortic stenosis. Acta Cardiologica, 2021, 76, 544-552.	0.9	10
99	(CO2)n+, (H2O)n+, and (H2O)n+ (CO2) gas cluster ion beam secondary ion mass spectrometry: analysis of lipid extracts, cells, and Alzheimerâ€™s model mouse brain tissue. Analytical and Bioanalytical Chemistry, 2021, 413, 4181-4194.	3.7	10
100	The impact of Roux-en-Y gastric bypass surgery on normal metabolism in a porcine model. PLoS ONE, 2017, 12, e0173137.	2.5	10
101	STE20-type kinase TAOK3 regulates hepatic lipid partitioning. Molecular Metabolism, 2021, 54, 101353.	6.5	10
102	Lanosterol Synthase Regulates Human Rhinovirus Replication in Human Bronchial Epithelial Cells. American Journal of Respiratory Cell and Molecular Biology, 2018, 59, 713-722.	2.9	9
103	Treatment with HIV-Protease Inhibitor Nelfinavir Identifies Membrane Lipid Composition and Fluidity as a Therapeutic Target in Advanced Multiple Myeloma. Cancer Research, 2021, 81, 4581-4593.	0.9	8
104	Pyrrolizidine Alkaloids Disturb Bile Acid Homeostasis in the Human Hepatoma Cell Line HepaRG. Foods, 2021, 10, 161.	4.3	6
105	Palmitic acid causes increased dihydroceramide levels when desaturase expression is directly silenced or indirectly lowered by silencing AdipoR2. Lipids in Health and Disease, 2021, 20, 173.	3.0	6
106	Inhibition of MAP4K4 signaling initiates metabolic reprogramming to protect hepatocytes from lipotoxic damage. Journal of Lipid Research, 2022, 63, 100238.	4.2	6
107	Effects of PNPLA3 I148M on hepatic lipid and veryâ€lowâ€density lipoprotein metabolism in humans. Journal of Internal Medicine, 2022, 291, 218-223.	6.0	5
108	Testosterone reduces metabolic brown fat activity in male mice. Journal of Endocrinology, 2021, 251, 83-96.	2.6	5

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109	Liver-specific RORÎ± deletion does not affect the metabolic susceptibility to western style diet feeding. Molecular Metabolism, 2019, 23, 82-87.	6.5	4
110	Lipid profiling of human diabetic myocardium reveals differences in triglyceride fatty acyl chain length and degree of saturation. International Journal of Cardiology, 2020, 320, 106-111.	1.7	4
111	The Food Contaminants Pyrrolizidine Alkaloids Disturb Bile Acid Homeostasis Structure-Dependently in the Human Hepatoma Cell Line HepaRG. Foods, 2021, 10, 1114.	4.3	4
112	ARF6 Regulates Neuron Differentiation through Glucosylceramide Synthase. PLoS ONE, 2013, 8, e60118.	2.5	4
113	p110Î± Hot Spot Mutations E545K and H1047R Exert Metabolic Reprogramming Independently of p110Î± Kinase Activity. Molecular and Cellular Biology, 2015, 35, 3258-3273.	2.3	3
114	Cardiac expression of the microsomal triglyceride transport protein protects the heart function during ischemia. Journal of Molecular and Cellular Cardiology, 2019, 137, 1-8.	1.9	3
115	Cerebrospinal Fluid Sulfatide Levels Lack Diagnostic Utility in the Subcortical Small Vessel Type of Dementia. Journal of Alzheimer's Disease, 2021, 82, 781-790.	2.6	3
116	Sacubitril/valsartan decreases mortality in the rat model of the isoprenalineâ€induced takotsuboâ€like syndrome. ESC Heart Failure, 2021, 8, 4130-4138.	3.1	3
117	Modified lipid metabolism and cytosolic phospholipase A2 activation in mesangial cells under pro-inflammatory conditions. Scientific Reports, 2022, 12, 7322.	3.3	3
118	Cholesterol efflux promoting function of high-density lipoproteins in calcific aortic valve stenosis. Atherosclerosis Plus, 2021, 44, 18-18.	0.7	1
119	Nelfinavir Overcomes Proteasome Inhibitor Resistance in Multiple Myeloma By Modulating Membrane Lipid Bilayer Composition and Fluidity. Blood, 2020, 136, 11-11.	1.4	0
120	Title is missing!. , 2020, 16, e1008975.		0
121	Title is missing!. , 2020, 16, e1008975.		0
122	Title is missing!. , 2020, 16, e1008975.		0
123	Title is missing!. , 2020, 16, e1008975.		0
124	MO614: Modified Lipid Metabolism and Cytosolic Phospholipase A2 Activation in Mesangial Cells Under Pro-Inflammatory Conditions. Nephrology Dialysis Transplantation, 2022, 37, .	0.7	0