

# Antti Hakkarainen

## List of Publications by Year in descending order

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Version: 2024-02-01

109  
papers

6,318  
citations

57631

44  
h-index

74018

75  
g-index

112  
all docs

112  
docs citations

112  
times ranked

10153  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of <i>PNPLA3</i> I148M on hepatic lipid and very low-density lipoprotein metabolism in humans. <i>Journal of Internal Medicine</i> , 2022, 291, 218-223.	2.7	5
2	Distinct contributions of metabolic dysfunction and genetic risk factors in the pathogenesis of non-alcoholic fatty liver disease. <i>Journal of Hepatology</i> , 2022, 76, 526-535.	1.8	80
3	Brain Volumes and Abnormalities in Adults Born Preterm at Very Low Birth Weight. <i>Journal of Pediatrics</i> , 2022, 246, 48-55.e7.	0.9	4
4	Matrisome alterations in obesity – Adipose tissue transcriptome study on monozygotic weight-discordant twins. <i>Matrix Biology</i> , 2022, 108, 1-19.	1.5	7
5	Role of endogenous incretins in the regulation of postprandial lipoprotein metabolism. <i>European Journal of Endocrinology</i> , 2022, 187, 75-84.	1.9	2
6	Abdominal adipose tissue and liver fat imaging in very low birth weight adults born preterm: birth cohort with sibling-controls. <i>Scientific Reports</i> , 2022, 12, .	1.6	2
7	F13A1 transglutaminase expression in human adipose tissue increases in acquired excess weight and associates with inflammatory status of adipocytes. <i>International Journal of Obesity</i> , 2021, 45, 577-587.	1.6	13
8	The <i>PNPLA3</i> -I148M Variant Confers an Antiatherogenic Lipid Profile in Insulin-resistant Patients. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021, 106, e300-e315.	1.8	17
9	Effects of Evolocumab on the Postprandial Kinetics of Apo (Apolipoprotein) B100- and B48-Containing Lipoproteins in Subjects With Type 2 Diabetes. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021, 41, 962-975.	1.1	18
10	Effects of liraglutide on the metabolism of triglyceride-rich lipoproteins in type 2 diabetes. <i>Diabetes, Obesity and Metabolism</i> , 2021, 23, 1191-1201.	2.2	20
11	Molecular pathways behind acquired obesity: Adipose tissue and skeletal muscle multiomics in monozygotic twin pairs discordant for BMI. <i>Cell Reports Medicine</i> , 2021, 2, 100226.	3.3	31
12	Treatment response of colorectal cancer liver metastases to neoadjuvant or conversion therapy: a prospective multicentre follow-up study using MRI, diffusion-weighted imaging and 1H-MR spectroscopy compared with histology (subgroup in the RAXO trial). <i>ESMO Open</i> , 2021, 6, 100208.	2.0	7
13	Liver Fat, Adipose Tissue, and Body Composition Changes After Switching from a Protease Inhibitor or Efavirenz to Raltegravir. <i>AIDS Patient Care and STDs</i> , 2021, 35, 335-341.	1.1	6
14	Natural Course of Nonalcoholic Fatty Liver Disease and Type 2 Diabetes in Patients With Human Immunodeficiency Virus With and Without Combination Antiretroviral Therapy-associated Lipodystrophy: A 16-Year Follow-up Study. <i>Clinical Infectious Diseases</i> , 2020, 70, 1708-1716.	2.9	6
15	Apolipoprotein B48 metabolism in chylomicrons and very low-density lipoproteins and its role in triglyceride transport in normo- and hypertriglyceridemic human subjects. <i>Journal of Internal Medicine</i> , 2020, 288, 422-438.	2.7	25
16	Impact of proprotein convertase subtilisin/kexin type 9 inhibition with evolocumab on the postprandial responses of triglyceride-rich lipoproteins in type II diabetic subjects. <i>Journal of Clinical Lipidology</i> , 2020, 14, 77-87.	0.6	26
17	The <i>PNPLA3</i> -I148M variant increases polyunsaturated triglycerides in human adipose tissue. <i>Liver International</i> , 2020, 40, 2128-2138.	1.9	17
18	Niacin Cures Systemic NAD+ Deficiency and Improves Muscle Performance in Adult-Onset Mitochondrial Myopathy. <i>Cell Metabolism</i> , 2020, 31, 1078-1090.e5.	7.2	154

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19	Effect of a ketogenic diet on hepatic steatosis and hepatic mitochondrial metabolism in nonalcoholic fatty liver disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7347-7354.	3.3	137
20	Hydroxysteroid 17- $\beta$ dehydrogenase 13 variant increases phospholipids and protects against fibrosis in nonalcoholic fatty liver disease. <i>JCI Insight</i> , 2020, 5, .	2.3	62
21	Effects of TM6SF2 E167K on hepatic lipid and very low-density lipoprotein metabolism in humans. <i>JCI Insight</i> , 2020, 5, .	2.3	38
22	Plasma metabolites reveal distinct profiles associating with different metabolic risk factors in monozygotic twin pairs. <i>International Journal of Obesity</i> , 2019, 43, 487-502.	1.6	13
23	Liraglutide treatment improves postprandial lipid metabolism and cardiometabolic risk factors in humans with adequately controlled type 2 diabetes: A single-centre randomized controlled study. <i>Diabetes, Obesity and Metabolism</i> , 2019, 21, 84-94.	2.2	78
24	Adipocyte Size In Obesity With And Without Metabolic Syndrome. <i>Atherosclerosis</i> , 2019, 287, e72.	0.4	1
25	Role of apolipoprotein C-III overproduction in diabetic dyslipidaemia. <i>Diabetes, Obesity and Metabolism</i> , 2019, 21, 1861-1870.	2.2	39
26	Epigenetic dysregulation of genes related to synaptic long-term depression among adolescents with depressive disorder and sleep symptoms. <i>Sleep Medicine</i> , 2019, 61, 95-103.	0.8	11
27	Human PNPLA3-I148M variant increases hepatic retention of polyunsaturated fatty acids. <i>JCI Insight</i> , 2019, 4, .	2.3	93
28	An Integrated Understanding of the Rapid Metabolic Benefits of a Carbohydrate-Restricted Diet on Hepatic Steatosis in Humans. <i>Cell Metabolism</i> , 2018, 27, 559-571.e5.	7.2	321
29	Saturated fat is more metabolically harmful for the human liver than polyunsaturated fat or simple sugars. <i>Journal of Hepatology</i> , 2018, 68, S836.	1.8	3
30	Metabolic syndrome associates with left atrial dysfunction. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2018, 28, 727-734.	1.1	11
31	Physical activity, cardiorespiratory fitness, and metabolic outcomes in monozygotic twin pairs discordant for body mass index. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2018, 28, 1048-1055.	1.3	12
32	Characterization of different fat depots in NAFLD using inflammation-associated proteome, lipidome and metabolome. <i>Scientific Reports</i> , 2018, 8, 14200.	1.6	28
33	Saturated Fat Is More Metabolically Harmful for the Human Liver Than Unsaturated Fat or Simple Sugars. <i>Diabetes Care</i> , 2018, 41, 1732-1739.	4.3	266
34	Global and Widespread Local White Matter Abnormalities in Juvenile Neuronal Ceroid Lipofuscinosis. <i>American Journal of Neuroradiology</i> , 2018, 39, 1349-1354.	1.2	6
35	Increased body fat mass and androgen metabolism – A twin study in healthy young women. <i>Steroids</i> , 2018, 140, 24-31.	0.8	9
36	Fat accumulates preferentially in the right rather than the left liver lobe in non-diabetic subjects. <i>Digestive and Liver Disease</i> , 2018, 50, 168-174.	0.4	7

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37	Metabolic profile of liver damage in non-cirrhotic virus C and autoimmune hepatitis: A proton decoupled 31 P-MRS study. <i>European Journal of Radiology</i> , 2017, 90, 205-211.	1.2	4
38	Personal model-assisted identification of NAD <sup>+</sup> and glutathione metabolism as intervention target in NAFLD. <i>Molecular Systems Biology</i> , 2017, 13, 916.	3.2	147
39	31Phosphorus magnetic resonance spectroscopy of the liver for evaluating inflammation and fibrosis in autoimmune hepatitis. <i>Scandinavian Journal of Gastroenterology</i> , 2017, 52, 886-892.	0.6	7
40	Cardiorespiratory Fitness and Adiposity as Determinants of Metabolic Health—Pooled Analysis of Two Twin Cohorts. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, 1520-1528.	1.8	11
41	Gene expression profile of subcutaneous adipose tissue in BMI-discordant monozygotic twin pairs unravels molecular and clinical changes associated with sub-types of obesity. <i>International Journal of Obesity</i> , 2017, 41, 1176-1184.	1.6	31
42	Metabolism of sex steroids is influenced by acquired adiposity—A study of young adult male monozygotic twin pairs. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2017, 172, 98-105.	1.2	15
43	Adverse effects of fructose on cardiometabolic risk factors and hepatic lipid metabolism in subjects with abdominal obesity. <i>Journal of Internal Medicine</i> , 2017, 282, 187-201.	2.7	89
44	Fructose intervention for 12 weeks does not impair glycemic control or incretin hormone responses during oral glucose or mixed meal tests in obese men. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2017, 27, 534-542.	1.1	18
45	Frontal Cortex Myo-Inositol Is Associated with Sleep and Depression in Adolescents: A Proton Magnetic Resonance Spectroscopy Study. <i>Neuropsychobiology</i> , 2017, 75, 21-31.	0.9	28
46	Predictors of Liver Fat and Stiffness in Non-Alcoholic Fatty Liver Disease (NAFLD) — an 11-Year Prospective Study. <i>Scientific Reports</i> , 2017, 7, 14561.	1.6	18
47	Use of HOMA-IR to diagnose non-alcoholic fatty liver disease: a population-based and inter-laboratory study. <i>Diabetologia</i> , 2017, 60, 1873-1882.	2.9	85
48	Mitochondria-related transcriptional signature is downregulated in adipocytes in obesity: a study of young healthy MZ twins. <i>Diabetologia</i> , 2017, 60, 169-181.	2.9	55
49	Obesity/insulin resistance rather than liver fat increases coagulation factor activities and expression in humans. <i>Thrombosis and Haemostasis</i> , 2017, 117, 286-294.	1.8	18
50	Upregulation of Early and Downregulation of Terminal Pathway Complement Genes in Subcutaneous Adipose Tissue and Adipocytes in Acquired Obesity. <i>Frontiers in Immunology</i> , 2017, 8, 545.	2.2	39
51	Targeting low- or high-normal Carbon dioxide, Oxygen, and Mean arterial pressure After Cardiac Arrest and REsuscitation: study protocol for a randomized pilot trial. <i>Trials</i> , 2017, 18, 507.	0.7	22
52	Minor Contribution of Endogenous GLP-1 and GLP-2 to Postprandial Lipemia in Obese Men. <i>PLoS ONE</i> , 2016, 11, e0145890.	1.1	19
53	Modified Atkins diet induces subacute selective ragged—red—fiber lysis in mitochondrial myopathy—patients. <i>EMBO Molecular Medicine</i> , 2016, 8, 1234-1247.	3.3	56
54	Phosphorylated IGFBP-1 as a non-invasive predictor of liver fat in NAFLD. <i>Scientific Reports</i> , 2016, 6, 24740.	1.6	21

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55	Liver Fat and Insulin Sensitivity Define Metabolite Profiles During a Glucose Tolerance Test in Young Adult Twins. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 102, jc.2015-3512.	1.8	12
56	Weight Loss Is Associated With Increased NAD <sup>+</sup> /SIRT1 Expression But Reduced PARP Activity in White Adipose Tissue. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 1263-1273.	1.8	57
57	Abdominal obesity and circulating metabolites: A twin study approach. <i>Metabolism: Clinical and Experimental</i> , 2016, 65, 111-121.	1.5	55
58	ApoA-II HDL Catabolism and Its Relationships With the Kinetics of ApoA-I HDL and of VLDL1, in Abdominal Obesity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 1398-1406.	1.8	4
59	Obesity Is Associated With Low NAD <sup>+</sup> /SIRT Pathway Expression in Adipose Tissue of BMI-Discordant Monozygotic Twins. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 275-283.	1.8	120
60	Biomarkers and prediction of myocardial triglyceride content in non-diabetic men. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2016, 26, 134-140.	1.1	5
61	DNA methylation and gene expression patterns in adipose tissue differ significantly within young adult monozygotic BMI-discordant twin pairs. <i>International Journal of Obesity</i> , 2016, 40, 654-661.	1.6	59
62	Bone marrow fat unsaturation in young adults is not affected by present or childhood obesity, but increases with age: A pilot study. <i>Metabolism: Clinical and Experimental</i> , 2015, 64, 1574-1581.	1.5	20
63	Kinetic and Related Determinants of Plasma Triglyceride Concentration in Abdominal Obesity. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 2218-2224.	1.1	58
64	Ectopic Fat Depots and Left Ventricular Function in Nondiabetic Men With Nonalcoholic Fatty Liver Disease. <i>Circulation: Cardiovascular Imaging</i> , 2015, 8, .	1.3	83
65	Liver Fat Content and Hepatic Insulin Sensitivity in Overweight Patients With Type 1 Diabetes. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, 607-616.	1.8	43
66	Genome-wide blood DNA methylation alterations at regulatory elements and heterochromatic regions in monozygotic twins discordant for obesity and liver fat. <i>Clinical Epigenetics</i> , 2015, 7, 39.	1.8	71
67	Impaired Mitochondrial Biogenesis in Adipose Tissue in Acquired Obesity. <i>Diabetes</i> , 2015, 64, 3135-3145.	0.3	263
68	Impact of nonalcoholic fatty liver disease on liver volume in humans. <i>Hepatology Research</i> , 2015, 45, 210-219.	1.8	16
69	Paradoxical Dissociation Between Hepatic Fat Content and De Novo Lipogenesis Due to PNPLA3 Sequence Variant. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015, 100, E821-E825.	1.8	64
70	Measuring short-term liver metabolism non-invasively: postprandial and post-exercise 1H and 31P MR spectroscopy. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2015, 28, 57-66.	1.1	7
71	Hepatic lipogenesis and a marker of hepatic lipid oxidation, predict postprandial responses of triglyceride-rich lipoproteins. <i>Obesity</i> , 2014, 22, 1854-1859.	1.5	31
72	Metabolome and fecal microbiota in monozygotic twin pairs discordant for weight: a Big Mac challenge. <i>FASEB Journal</i> , 2014, 28, 4169-4179.	0.2	30

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73	Cardiac steatosis in patients with dilated cardiomyopathy. <i>Heart</i> , 2014, 100, 1107-1112.	1.2	28
74	GLP-1 Responses Are Heritable and Blunted in Acquired Obesity With High Liver Fat and Insulin Resistance. <i>Diabetes Care</i> , 2014, 37, 242-251.	4.3	53
75	Characterising metabolically healthy obesity in weight-discordant monozygotic twins. <i>Diabetologia</i> , 2014, 57, 167-176.	2.9	118
76	Adipocyte morphology and implications for metabolic derangements in acquired obesity. <i>International Journal of Obesity</i> , 2014, 38, 1423-1431.	1.6	83
77	Effects of dietary interventions on liver volume in humans. <i>Obesity</i> , 2014, 22, 989-995.	1.5	34
78	Electrocardiographic changes associated with insulin resistance. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2014, 24, 315-320.	1.1	7
79	Prediction of non-alcoholic fatty-liver disease and liver fat content by serum molecular lipids. <i>Diabetologia</i> , 2013, 56, 2266-2274.	2.9	129
80	Adipose tissue is inflamed in NAFLD due to obesity but not in NAFLD due to genetic variation in PNPLA3. <i>Diabetologia</i> , 2013, 56, 886-892.	2.9	48
81	Cardiac steatosis and left ventricular function in men with metabolic syndrome. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2013, 15, 103.	1.6	86
82	Adipocyte size is associated with NAFLD independent of obesity, fat distribution, and PNPLA3 genotype. <i>Obesity</i> , 2013, 21, 1174-1179.	1.5	19
83	Acquired liver fat is a key determinant of serum lipid alterations in healthy monozygotic twins. <i>Obesity</i> , 2013, 21, 1815-1822.	1.5	6
84	Deep subcutaneous adipose tissue is more saturated than superficial subcutaneous adipose tissue. <i>International Journal of Obesity</i> , 2013, 37, 620-622.	1.6	53
85	Cardiac Steatosis Associates With Visceral Obesity in Nondiabetic Obese Men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2013, 98, 1189-1197.	1.8	98
86	CB1 blockade-induced weight loss over 48 weeks decreases liver fat in proportion to weight loss in humans. <i>International Journal of Obesity</i> , 2013, 37, 699-703.	1.6	30
87	Genetic Variation in SULF2 Is Associated with Postprandial Clearance of Triglyceride-Rich Remnant Particles and Triglyceride Levels in Healthy Subjects. <i>PLoS ONE</i> , 2013, 8, e79473.	1.1	28
88	Decrease in circulating fibroblast growth factor 21 after an oral fat load is related to postprandial triglyceride-rich lipoproteins and liver fat. <i>European Journal of Endocrinology</i> , 2012, 166, 487-492.	1.9	32
89	Effect of short-term carbohydrate overfeeding and long-term weight loss on liver fat in overweight humans. <i>American Journal of Clinical Nutrition</i> , 2012, 96, 727-734.	2.2	171
90	Epicardial Fat, Cardiac Dimensions, and Low-Grade Inflammation in Young Adult Monozygotic Twins Discordant for Obesity. <i>American Journal of Cardiology</i> , 2012, 109, 1295-1302.	0.7	39

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91	Genetic variation in <i>PNPLA3</i> but not <i>APOC3</i> influences liver fat in non-alcoholic fatty liver disease. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2012, 27, 951-956.	1.4	49
92	Cholesterol synthesis is increased and absorption decreased in non-alcoholic fatty liver disease independent of obesity. <i>Journal of Hepatology</i> , 2011, 54, 153-159.	1.8	123
93	Increased coagulation factor VIII, IX, XI and XII activities in non-alcoholic fatty liver disease. <i>Liver International</i> , 2011, 31, 176-183.	1.9	95
94	Comparison of the Relative Contributions of Intra-Abdominal and Liver Fat to Components of the Metabolic Syndrome. <i>Obesity</i> , 2011, 19, 23-28.	1.5	58
95	Long <sup>1</sup> H MRS suggests that liver fat is more saturated than subcutaneous and visceral fat. <i>NMR in Biomedicine</i> , 2011, 24, 238-245.	1.6	62
96	Liver Fat But Not Other Adiposity Measures Influence Circulating FGF21 Levels in Healthy Young Adult Twins. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011, 96, E351-E355.	1.8	53
97	Genetic variation in <i>PNPLA3</i> (adiponutrin) confers sensitivity to weight loss-induced decrease in liver fat in humans. <i>American Journal of Clinical Nutrition</i> , 2011, 94, 104-111.	2.2	131
98	Dual Metabolic Defects Are Required to Produce Hypertriglyceridemia in Obese Subjects. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 2144-2150.	1.1	133
99	Characterizing human adipose tissue lipids by long echo time <sup>1</sup> H MRS <i>in vivo</i> at 1.5T: validation by gas chromatography. <i>NMR in Biomedicine</i> , 2010, 23, 466-472.	1.6	46
100	Association of intramyocellular, intraperitoneal and liver fat with glucose tolerance in severely obese adolescents. <i>European Journal of Endocrinology</i> , 2010, 163, 413-419.	1.9	15
101	Nonalcoholic Fatty Liver Disease: Detection of Elevated Nicotinamide Adenine Dinucleotide Phosphate with <i>in Vivo</i> 3.0-T <sup>31</sup> P MR Spectroscopy with Proton Decoupling. <i>Radiology</i> , 2010, 256, 466-473.	3.6	48
102	Role of insulin as a negative regulator of plasma endocannabinoid levels in obese and nonobese subjects. <i>European Journal of Endocrinology</i> , 2009, 161, 715-722.	1.9	100
103	PRESS echo time behavior of triglyceride resonances at 1.5T: Detecting <sup>3</sup> fatty acids in adipose tissue <i>in vivo</i> . <i>Journal of Magnetic Resonance</i> , 2009, 201, 39-47.	1.2	31
104	Prediction of Non-Alcoholic Fatty Liver Disease and Liver Fat Using Metabolic and Genetic Factors. <i>Gastroenterology</i> , 2009, 137, 865-872.	0.6	646
105	Liver Fat Is Increased in Type 2 Diabetic Patients and Underestimated by Serum Alanine Aminotransferase Compared With Equally Obese Nondiabetic Subjects. <i>Diabetes Care</i> , 2008, 31, 165-169.	4.3	200
106	Effects of insulin therapy on liver fat content and hepatic insulin sensitivity in patients with type 2 diabetes. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2007, 292, E829-E835.	1.8	120
107	Preliminary findings of proton magnetic resonance spectroscopy in occipital cortex during sleep deprivation. <i>Psychiatry Research - Neuroimaging</i> , 2006, 147, 41-46.	0.9	13
108	Stimulus-induced brain lactate: effects of aging and prolonged wakefulness. <i>Journal of Sleep Research</i> , 2004, 13, 111-119.	1.7	38

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109	Metabolic Imaging of Human Cognition: An fMRI/1H-MRS Study of Brain Lactate Response to Silent Word Generation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, 23, 942-948.	2.4	33