JÃ¼rgen Machann

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4530176/publications.pdf

Version: 2024-02-01

166	10,296	28274	38395
papers	citations	55 h-index	95 g-index

172	172	172	14062
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identification and Characterization of Metabolically Benign Obesity in Humans. Archives of Internal Medicine, 2008, 168, 1609.	3.8	869
2	Non-invasive assessment and quantification of liver steatosis by ultrasound, computed tomography and magnetic resonance. Journal of Hepatology, 2009, 51, 433-445.	3.7	667
3	Î±2-Heremans-Schmid Glycoprotein/ Fetuin-A Is Associated With Insulin Resistance and Fat Accumulation in the Liver in Humans. Diabetes Care, 2006, 29, 853-857.	8.6	440
4	Dissociation Between Fatty Liver and Insulin Resistance in Humans Carrying a Variant of the Patatin-Like Phospholipase 3 Gene. Diabetes, 2009, 58, 2616-2623.	0.6	291
5	Standardized assessment of whole body adipose tissue topography by MRI. Journal of Magnetic Resonance Imaging, 2005, 21, 455-462.	3.4	216
6	Pancreatic fat is negatively associated with insulin secretion in individuals with impaired fasting glucose and/or impaired glucose tolerance: a nuclear magnetic resonance study. Diabetes/Metabolism Research and Reviews, 2010, 26, 200-205.	4.0	212
7	Intramyocellular Lipids: Anthropometric Determinants and Relationships with Maximal Aerobic Capacity and Insulin Sensitivity. Journal of Clinical Endocrinology and Metabolism, 2003, 88, 1785-1791.	3.6	210
8	High Circulating Retinol-Binding Protein 4 Is Associated With Elevated Liver Fat but Not With Total, Subcutaneous, Visceral, or Intramyocellular Fat in Humans. Diabetes Care, 2007, 30, 1173-1178.	8.6	203
9	Pathophysiology-based subphenotyping of individuals at elevated risk for type 2 diabetes. Nature Medicine, 2021, 27, 49-57.	30.7	203
10	Relationship of Serum Adiponectin and Leptin Concentrations with Body Fat Distribution in Humans. Obesity, 2003, 11, 368-376.	4.0	195
11	Isocaloric Diets High in Animal or Plant Protein Reduce Liver Fat and Inflammation in Individuals With Type 2 Diabetes. Gastroenterology, 2017, 152, 571-585.e8.	1.3	194
12	Empagliflozin Effectively Lowers Liver Fat Content in Well-Controlled Type 2 Diabetes: A Randomized, Double-Blind, Phase 4, Placebo-Controlled Trial. Diabetes Care, 2020, 43, 298-305.	8.6	185
13	Muscle-Derived Angiopoietin-Like Protein 4 Is Induced by Fatty Acids via Peroxisome Proliferatorâ€“Activated Receptor (PPAR)-Î´ and Is of Metabolic Relevance in Humans. Diabetes, 2009, 58, 579-589.	0.6	166
14	Intermuscular adipose tissue (IMAT): Association with other adipose tissue compartments and insulin sensitivity. Journal of Magnetic Resonance Imaging, 2009, 29, 1340-1345.	3.4	160
15	Intramyocellular lipids and insulin resistance. Diabetes, Obesity and Metabolism, 2004, 6, 239-248.	4.4	153
16	Effects of supplemented isoenergetic diets differing in cereal fiber and protein content on insulin sensitivity in overweight humans. American Journal of Clinical Nutrition, 2011, 94, 459-471.	4.7	148
17	Hepatic lipid accumulation in healthy subjects: A comparative study using spectral fatâ€selective MRI and volumeâ€localized ¹Hâ€MR spectroscopy. Magnetic Resonance in Medicine, 2006, 55, 913-917.	3.0	146
18	Exercise-induced normalization of decreased BDNF serum concentration in elderly women with remitted major depression. International Journal of Neuropsychopharmacology, 2010, 13, 595-602.	2.1	142

#	Article	IF	Citations
19	Individual Stearoyl-CoA Desaturase 1 Expression Modulates Endoplasmic Reticulum Stress and Inflammation in Human Myotubes and Is Associated With Skeletal Muscle Lipid Storage and Insulin Sensitivity In Vivo. Diabetes, 2009, 58, 1757-1765.	0.6	134
20	Circulating Palmitoleate Strongly and Independently Predicts Insulin Sensitivity in Humans. Diabetes Care, 2010, 33, 405-407.	8.6	130
21	Relationships of Circulating Sex Hormoneâ€“Binding Globulin With Metabolic Traits in Humans. Diabetes, 2010, 59, 3167-3173.	0.6	130
22	Selective Insulin Resistance in Homeostatic and Cognitive Control Brain Areas in Overweight and Obese Adults. Diabetes Care, 2015, 38, 1044-1050.	8.6	126
23	Genetic Variations inPPARDandPPARGC1ADetermine Mitochondrial Function and Change in Aerobic Physical Fitness and Insulin Sensitivity during Lifestyle Intervention. Journal of Clinical Endocrinology and Metabolism, 2007, 92, 1827-1833.	3.6	123
24	Medium Chain Acylcarnitines Dominate the Metabolite Pattern in Humans under Moderate Intensity Exercise and Support Lipid Oxidation. PLoS ONE, 2010, 5, e11519.	2.5	118
25	Liver fat content determined by magnetic resonance imaging and spectroscopy. World Journal of Gastroenterology, 2010, 16, 1560.	3.3	107
26	Follow-up Whole-Body Assessment of Adipose Tissue Compartments during a Lifestyle Intervention in a Large Cohort at Increased Risk for Type 2 Diabetes. Radiology, 2010, 257, 353-363.	7.3	105
27	Quantification of Pancreatic Lipomatosis and Liver Steatosis by MRI: Comparison of In/Opposed-Phase and Spectral-Spatial Excitation Techniques. Investigative Radiology, 2008, 43, 330-337.	6.2	104
28	Impact of Variation in the FTO Gene on Whole Body Fat Distribution, Ectopic Fat, and Weight Loss. Obesity, 2008, 16, 1969-1972.	3.0	102
29	Subclinical Disease Burden as Assessed by Whole-Body MRI in Subjects With Prediabetes, Subjects With Diabetes, and Normal Control Subjects From the General Population: The KORA-MRI Study. Diabetes, 2017, 66, 158-169.	0.6	102
30	Circulating Lysophosphatidylcholines Are Markers of a Metabolically Benign Nonalcoholic Fatty Liver. Diabetes Care, 2013, 36, 2331-2338.	8.6	100
31	Metabolic crosstalk between fatty pancreas and fatty liver: effects on local inflammation and insulin secretion. Diabetologia, 2017, 60, 2240-2251.	6.3	100
32	Inhibition of 11Î²-HSD1 with RO5093151 for non-alcoholic fatty liver disease: a multicentre, randomised, double-blind, placebo-controlled trial. Lancet Diabetes and Endocrinology,the, 2014, 2, 406-416.	11.4	98
33	1H MR spectroscopy of skeletal muscle, liver and bone marrow. European Journal of Radiology, 2008, 67, 275-284.	2.6	97
34	Reduced cortical thickness associated with visceral fat and BMI. NeuroImage: Clinical, 2014, 6, 307-311.	2.7	96
35	MRI of muscular fat. Magnetic Resonance in Medicine, 2002, 47, 720-727.	3.0	93
36	T2* Relaxometry in Liver, Pancreas, and Spleen in a Healthy Cohort of One Hundred Twenty-Nine Subjectsâ€“Correlation With Age, Gender, and Serum Ferritin. Investigative Radiology, 2008, 43, 854-860.	6.2	89

#	Article	IF	Citations
37	Common Genetic Variation in the Human FNDC5 Locus, Encoding the Novel Muscle-Derived â€˜Browningâ€™ Factor Irisin, Determines Insulin Sensitivity. PLoS ONE, 2013, 8, e61903.	2.5	83
38	Topography mapping of whole body adipose tissue using A fully automated and standardized procedure. Journal of Magnetic Resonance Imaging, 2010, 31, 430-439.	3.4	82
39	Brain insulin sensitivity is linked to adiposity and body fat distribution. Nature Communications, 2020, 11, 1841.	12.8	81
40	Cinnamon Extract Improves Insulin Sensitivity in the Brain and Lowers Liver Fat in Mouse Models of Obesity. PLoS ONE, 2014, 9, e92358.	2.5	80
41	Genome-Wide and Abdominal MRI Data Provide Evidence That a Genetically Determined Favorable Adiposity Phenotype Is Characterized by Lower Ectopic Liver Fat and Lower Risk of Type 2 Diabetes, Heart Disease, and Hypertension. Diabetes, 2019, 68, 207-219.	0.6	72
42	Variations inPPARDDetermine the Change in Body Composition during Lifestyle Intervention: A Whole-Body Magnetic Resonance Study. Journal of Clinical Endocrinology and Metabolism, 2008, 93, 1497-1500.	3.6	71
43	A moderate weight reduction through dietary intervention decreases hepatic fat content in patients with non-alcoholic fatty liver disease (NAFLD): a pilot study. European Journal of Nutrition, 2013, 52, 527-535.	3.9	71
44	Intrahepatic Lipids Are Predicted by Visceral Adipose Tissue Mass in Healthy Subjects. Diabetes Care, 2004, 27, 2726-2729.	8.6	69
45	Gene Variants of TCF7L2 Influence Weight Loss and Body Composition During Lifestyle Intervention in a Population at Risk for Type 2 Diabetes. Diabetes, 2010, 59, 747-750.	0.6	69
46	Lipid content in the musculature of the lower leg assessed by fat selective MRI: Intra- and interindividual differences and correlation with anthropometric and metabolic data. Journal of Magnetic Resonance Imaging, 2003, 17, 350-357.	3.4	67
47	High Hepatic SCD1 Activity Is Associated with Low Liver Fat Content in Healthy Subjects under a Lipogenic Diet. Journal of Clinical Endocrinology and Metabolism, 2012, 97, E2288-E2292.	3.6	66
48	Effects of resveratrol supplementation on liver fat content in overweight and insulinâ€resistant subjects: A randomized, doubleâ€blind, placeboâ€controlled clinical trial. Diabetes, Obesity and Metabolism, 2018, 20, 1793-1797.	4.4	66
49	Aging effects on human calf muscle properties assessed by MRI at 3 Tesla. Journal of Magnetic Resonance Imaging, 2009, 29, 1346-1354.	3.4	65
50	Highly selective water and fat imaging applying multislice sequences without sensitivity toB1 field inhomogeneities. Magnetic Resonance in Medicine, 1997, 38, 269-274.	3.0	63
51	Intranasal insulin enhances brain functional connectivity mediating the relationship between adiposity and subjective feeling of hunger. Scientific Reports, 2017, 7, 1627.	3.3	63
52	Impact of the Adipokine Adiponectin and the Hepatokine Fetuin-A on the Development of Type 2 Diabetes: Prospective Cohort- and Cross-Sectional Phenotyping Studies. PLoS ONE, 2014, 9, e92238.	2.5	63
53	TGF-Î² Contributes to Impaired Exercise Response by Suppression of Mitochondrial Key Regulators in Skeletal Muscle. Diabetes, 2016, 65, 2849-2861.	0.6	62
54	High plasma fetuin-A is associated with increased carotid intima-media thickness in a middle-aged population. Atherosclerosis, 2009, 207, 341-342.	0.8	58

#	Article	IF	Citations
55	A high-risk phenotype associates with reduced improvement in glycaemia during a lifestyle intervention in prediabetes. Diabetologia, 2015, 58, 2877-2884.	6.3	56
56	Fatty Liver Is Independently Associated With Alterations in Circulating HDL2 and HDL3 Subfractions. Diabetes Care, 2008, 31, 366-368.	8.6	55
57	Pancreatic fat content by magnetic resonance imaging in subjects with prediabetes, diabetes, and controls from a general population without cardiovascular disease. PLoS ONE, 2017, 12, e0177154.	2.5	54
58	RARRES2, encoding the novel adipokine chemerin, is a genetic determinant of disproportionate regional body fat distribution: a comparative magnetic resonance imaging study. Metabolism: Clinical and Experimental, 2009, 58, 519-524.	3.4	53
59	Quantitative Analysis of Adipose Tissue in Single Transverse Slices for Estimation of Volumes of Relevant Fat Tissue Compartments. Investigative Radiology, 2010, 45, 788-794.	6.2	53
60	Impact of Variation Near MC4R on Wholeâ€body Fat Distribution, Liver Fat, and Weight Loss. Obesity, 2009, 17, 1942-1945.	3.0	48
61	Monounsaturated Fatty Acids Prevent the Aversive Effects of Obesity on Locomotion, Brain Activity, and Sleep Behavior. Diabetes, 2012, 61, 1669-1679.	0.6	48
62	The Transeurope Footrace Project: longitudinal data acquisition in a cluster randomized mobile MRI observational cohort study on 44 endurance runners at a 64-stage 4,486km transcontinental ultramarathon. BMC Medicine, 2012, 10, 78.	5.5	47
63	Metabolic implications of pancreatic fat accumulation. Nature Reviews Endocrinology, 2022, 18, 43-54.	9.6	46
64	Lipodystrophic Nonalcoholic Fatty Liver Disease Induced by Immune Checkpoint Blockade. Annals of Internal Medicine, 2020, 172, 836-837.	3.9	44
65	Empagliflozin Improves Insulin Sensitivity of the Hypothalamus in Humans With Prediabetes: A Randomized, Double-Blind, Placebo-Controlled, Phase 2 Trial. Diabetes Care, 2022, 45, 398-406.	8.6	43
66	Highâ€protein diet more effectively reduces hepatic fat than lowâ€protein diet despite lower autophagy and FGF21 levels. Liver International, 2020, 40, 2982-2997.	3.9	42
67	The Insulin Effect on Cerebrocortical Theta Activity Is Associated with Serum Concentrations of Saturated Nonesterified Fatty Acids. Journal of Clinical Endocrinology and Metabolism, 2009, 94, 4600-4607.	3.6	40
68	Insulin Sensitivity and Liver Fat: Role of Iron Load. Journal of Clinical Endocrinology and Metabolism, 2011, 96, E958-E961.	3.6	40
69	Obesity and renal disease: not all fat is created equal and not all obesity is harmful to the kidneys. Nephrology Dialysis Transplantation, 2016, 31, 726-730.	0.7	40
70	Proton magnetic resonance spectroscopy in skeletal muscle: Experts' consensus recommendations. NMR in Biomedicine, 2021, 34, e4266.	2.8	39
71	New Imaging Techniques of Fat, Muscle and Liver within the Context of Determining Insulin Sensitivity. Hormone Research in Paediatrics, 2005, 64, 38-44.	1.8	37
72	Pancreatic Steatosis Associates With Impaired Insulin Secretion in Genetically Predisposed Individuals. Journal of Clinical Endocrinology and Metabolism, 2020, 105, 3518-3525.	3.6	37

#	Article	IF	Citations
73	Visceral Adiposity Index as an Independent Marker of Subclinical Atherosclerosis in Individuals Prone to Diabetes Mellitus. Journal of Atherosclerosis and Thrombosis, 2019, 26, 821-834.	2.0	36
74	Diagnostic imaging in obesity. Best Practice and Research in Clinical Endocrinology and Metabolism, 2013, 27, 261-277.	4.7	35
75	Relationships of body composition and liver fat content with insulin resistance in obesityâ€matched adolescents and adults. Obesity, 2014, 22, 1325-1331.	3.0	35
76	Different Effects of Lifestyle Intervention in High- and Low-Risk Prediabetes: Results of the Randomized Controlled Prediabetes Lifestyle Intervention Study (PLIS). Diabetes, 2021, 70, 2785-2795.	0.6	35
77	Genetic Ablation of cGMP-Dependent Protein Kinase Type I Causes Liver Inflammation and Fasting Hyperglycemia. Diabetes, 2011, 60, 1566-1576.	0.6	34
78	Modulation of Amino Acid Metabolic Signatures by Supplemented Isoenergetic Diets Differing in Protein and Cereal Fiber Content. Journal of Clinical Endocrinology and Metabolism, 2014, 99, E2599-E2609.	3.6	32
79	The role of visceral and subcutaneous adipose tissue measurements and their ratio by magnetic resonance imaging in subjects with prediabetes, diabetes and healthy controls from a general population without cardiovascular disease. British Journal of Radiology, 2018, 91, 20170808.	2.2	31
80	Elevated circulating follistatin associates with an increased risk of type 2 diabetes. Nature Communications, 2021, 12, 6486.	12.8	31
81	Novel Obesity Risk Loci Do Not Determine Distribution of Body Fat Depots: A Wholeâ€body MRI/MRS study. Obesity, 2010, 18, 1212-1217.	3.0	30
82	Fully Automated and Standardized Segmentation of Adipose Tissue Compartments via Deep Learning in 3D Whole-Body MRI of Epidemiologic Cohort Studies. Radiology: Artificial Intelligence, 2020, 2, e200010.	5.8	30
83	Intraâ€and interindividual variability of fatty acid unsaturation in six different human adipose tissue compartments assessed by ¹Hâ€MRS in vivo at 3ÂT. NMR in Biomedicine, 2017, 30, e3744.	2.8	29
84	Improved clinical echo-planar MRI using spatial-spectral excitation. Journal of Magnetic Resonance Imaging, 1998, 8, 960-967.	3.4	28
85	Technical challenges and opportunities of whole-body magnetic resonance imaging at 3T. Physica Medica, 2008, 24, 63-70.	0.7	28
86	Common Genetic Variation in the SERPINF1 Locus Determines Overall Adiposity, Obesity-Related Insulin Resistance, and Circulating Leptin Levels. PLoS ONE, 2012, 7, e34035.	2.5	28
87	Characteristics, changes and influence of body composition during a 4486â€‰km transcontinental ultramarathon: results from the Transeurope Footrace mobile whole body MRI-project. BMC Medicine, 2013, 11, 122.	5.5	28
88	Fraction of unsaturated fatty acids in visceral adipose tissue (VAT) is lower in subjects with high total VAT volume â€“ a combined ¹H MRS and volumetric MRI study in male subjects. NMR in Biomedicine, 2013, 26, 232-236.	2.8	28
89	Multiple Symmetric Lipomatosis. Diabetes Care, 2004, 27, 794-795.	8.6	27
90	The D299G/T399I Toll-Like Receptor 4 Variant Associates with Body and Liver Fat: Results from the TULIP and METSIM Studies. PLoS ONE, 2010, 5, e13980.	2.5	27

#	Article	IF	Citations
91	Glucose-Raising Polymorphisms in the Human Clock Gene Cryptochrome 2 (CRY2) Affect Hepatic Lipid Content. PLoS ONE, 2016, 11, e0145563.	2.5	27
92	Nonsuppressed Glucagon After Glucose Challenge as a Potential Predictor for Glucose Tolerance. Diabetes, 2017, 66, 1373-1379.	0.6	25
93	Upstream transcription factor 1 gene polymorphisms are associated with high antilipolytic insulin sensitivity and show geneâ€“gene interactions. Journal of Molecular Medicine, 2006, 85, 55-61.	3.9	24
94	Genetic Variation in NR1H4 Encoding the Bile Acid Receptor FXR Determines Fasting Glucose and Free Fatty Acid Levels in Humans. Journal of Clinical Endocrinology and Metabolism, 2013, 98, E1224-E1229.	3.6	24
95	Magnetic resonance imaging of obesity and metabolic disorders: Summary from the 2019 ISMRM Workshop. Magnetic Resonance in Medicine, 2020, 83, 1565-1576.	3.0	24
96	Morning to evening changes of intramyocellular lipid content in dependence on nutrition and physical activity during one single day: a volume selective 1H-MRS study. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2011, 24, 29-33.	2.0	23
97	Response of Mitochondrial Respiration in Adipose Tissue and Muscle to 8 Weeks of Endurance Exercise in Obese Subjects. Journal of Clinical Endocrinology and Metabolism, 2020, 105, e4023-e4037.	3.6	23
98	Variation in the Phosphoinositide 3-Kinase Gamma Gene Affects Plasma HDL-Cholesterol without Modification of Metabolic or Inflammatory Markers. PLoS ONE, 2015, 10, e0144494.	2.5	22
99	Investigating obesityâ€associated brain inflammation using quantitative water content mapping. Journal of Neuroendocrinology, 2020, 32, e12907.	2.6	22
100	3D proton MR spectroscopic imaging of prostate cancer using a standard spine coil at 1.5ï¿½T in clinical routine: a feasibility study. European Radiology, 2005, 15, 653-660.	4.5	21
101	Interscapular Fat Is Strongly Associated with Insulin Resistance. Journal of Clinical Endocrinology and Metabolism, 2010, 95, 4736-4742.	3.6	21
102	Association between abdominal adiposity and subclinical measures of left-ventricular remodeling in diabetics, prediabetics and normal controls without history of cardiovascular disease as measured by magnetic resonance imaging: results from the KORA-FF4 Study. Cardiovascular Diabetology, 2018, 17, 88.	6.8	21
103	Predicting volumes of metabolically important whole-body adipose tissue compartments in overweight and obese adolescents by different MRI approaches and anthropometry. European Journal of Radiology, 2012, 81, 1488-1494.	2.6	20
104	Genetic Variation in the 11Î²-hydroxysteroid-dehydrogenase 1 Gene Determines NAFLD and Visceral Obesity. Journal of Clinical Endocrinology and Metabolism, 2016, 101, 4743-4751.	3.6	20
105	Assessment of the degree of abdominal myosteatosis by magnetic resonance imaging in subjects with diabetes, prediabetes and healthy controls from the general population. European Journal of Radiology, 2018, 105, 261-268.	2.6	20
106	Fat Distribution Patterns and Future Type 2 Diabetes. Diabetes, 2022, 71, 1937-1945.	0.6	20
107	Bone marrow fat fraction assessment in regard to physical activity: KORA FF4â€“3-T MR imaging in a population-based cohort. European Radiology, 2020, 30, 3417-3428.	4.5	19
108	Impact of Different Fat Depots on Insulin Sensitivity: Predominant Role of Liver Fat. Journal of Diabetes Science and Technology, 2007, 1, 753-759.	2.2	18

#	Article	IF	Citations
109	Preliminary report: genetic variation within the GPBAR1 gene is not associated with metabolic traits in white subjects at an increased risk for type 2 diabetes mellitus. Metabolism: Clinical and Experimental, 2009, 58, 1809-1811.	3.4	18
110	Comparison of T1-weighted 2D TSE, 3D SPGR, and two-point 3D Dixon MRI for automated segmentation of visceral adipose tissue at 3 Tesla. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2017, 30, 139-151.	2.0	18
111	Normalized Indices Derived from Visceral Adipose Mass Assessed by Magnetic Resonance Imaging and Their Correlation with Markers for Insulin Resistance and Prediabetes. Nutrients, 2020, 12, 2064.	4.1	17
112	Elevated Circulating Glutamate Is Associated With Subclinical Atherosclerosis Independently of Established Risk Markers: A Cross-Sectional Study. Journal of Clinical Endocrinology and Metabolism, 2021, 106, e982-e989.	3.6	17
113	Enforced expression of protein kinase C in skeletal muscle causes physical inactivity, fatty liver and insulin resistance in the brain. Journal of Cellular and Molecular Medicine, 2010, 14, 903-913.	3.6	16
114	Choline Supplementation in Cystic Fibrosisâ€"The Metabolic and Clinical Impact. Nutrients, 2019, 11, 656.	4.1	16
115	MRI-based assessment and characterization of epicardial and paracardial fat depots in the context of impaired glucose metabolism and subclinical left-ventricular alterations. British Journal of Radiology, 2019, 92, 20180562.	2.2	16
116	Dietary Rapeseed Oil Supplementation Reduces Hepatic Steatosis in Obese Menâ€"A Randomized Controlled Trial. Molecular Nutrition and Food Research, 2020, 64, e2000419.	3.3	16
117	Quantifying the Improvement of Surrogate Indices of Hepatic Insulin Resistance Using Complex Measurement Techniques. PLoS ONE, 2012, 7, e39029.	2.5	16
118	Genetic determination of body fat distribution and the attributive influence on metabolism. Obesity, 2017, 25, 1277-1283.	3.0	15
119	Potential effects of reduced red meat compared with increased fiber intake on glucose metabolism and liver fat content: a randomized and controlled dietary intervention study. American Journal of Clinical Nutrition, 2019, 109, 288-296.	4.7	15
120	Osteodensitometry of human heel bones by MR spinâ€€echo imaging: Comparison with MR gradientâ€€echo imaging and quantitative computed tomography. Journal of Magnetic Resonance Imaging, 2001, 14, 147-155.	3.4	14
121	Quantitative Assessment of Intrahepatic Lipids Using Fat-Selective Imaging With Spectral-Spatial Excitation and In-/Opposed-Phase Gradient Echo Imaging Techniques Within a Study Population of Extremely Obese Patients. Investigative Radiology, 2010, 45, 484-490.	6.2	14
122	Body and liver fat content and adipokines in schizophrenia: a magnetic resonance imaging and spectroscopy study. Psychopharmacology, 2017, 234, 1923-1932.	3.1	14
123	Inter- and intra-observer variability of an anatomical landmark-based, manual segmentation method by MRI for the assessment of skeletal muscle fat content and area in subjects from the general population. British Journal of Radiology, 2018, 91, 20180019.	2.2	14
124	Metabolomic Characteristics of Fatty Pancreas. Experimental and Clinical Endocrinology and Diabetes, 2020, 128, 804-810.	1.2	14
125	Distribution patterns of intramyocellular and extramyocellular fat by magnetic resonance imaging in subjects with diabetes, prediabetes and normoglycaemic controls. Diabetes, Obesity and Metabolism, 2021, 23, 1868-1878.	4.4	14
126	Periaortic Adipose Tissue Compared With Peribrachial Adipose Tissue Mass as Markers and Possible Modulators of Cardiometabolic Risk. Angiology, 2018, 69, 854-860.	1.8	11

#	Article	IF	Citations
127	Leptin Replacement Reestablishes Brain Insulin Action in the Hypothalamus in Congenital Leptin Deficiency. Diabetes Care, 2018, 41, 907-910.	8.6	11
128	Magnetic Resonance Osteodensitometry in Human Heel Bones. Investigative Radiology, 2000, 35, 393-400.	6.2	11
129	A Polygenic Risk Score of Lipolysis-Increasing Alleles Determines Visceral Fat Mass and Proinsulin Conversion. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 1090-1098.	3.6	10
130	Characteristics and associated risk factors of diverticular disease assessed by magnetic resonance imaging in subjects from a Western general population. European Radiology, 2019, 29, 1094-1103.	4.5	10
131	Lack of GÎ±i2 proteins in adipocytes attenuates diet-induced obesity. Molecular Metabolism, 2020, 40, 101029.	6.5	10
132	Pancreatic fat cells of humans with type 2 diabetes display reduced adipogenic and lipolytic activity. American Journal of Physiology - Cell Physiology, 2021, 320, C1000-C1012.	4.6	10
133	Detection of diabetes from whole-body MRI using deep learning. JCI Insight, 2021, 6, .	5.0	10
134	Quantitative Assessment of Visceral Fat in Morbidly Obese Patients by Means of Wide-Bore MRI and its Relation to Lower Esophageal Sphincter Pressure and Signs of Gastroesophageal Reflux. Obesity Surgery, 2010, 20, 749-756.	2.1	9
135	Assessment of relevant hepatic steatosis in obese adolescents by rapid fat-selective GRE imaging with spatial-spectral excitation: a quantitative comparison with spectroscopic findings. European Radiology, 2011, 21, 816-822.	4.5	9
136	Acute Endothelial Benefits of Fat Restriction over Carbohydrate Restriction in Type 2 Diabetes Mellitus: Beyond Carbs and Fats. Nutrients, 2018, 10, 1859.	4.1	9
137	Hemostatic alterations linked to body fat distribution, fatty liver, and insulin resistance. Molecular Metabolism, 2021, 53, 101262.	6.5	9
138	Quantification of liver and muscular fat using contrast-enhanced Dual Source Dual Energy Computed Tomography compared to an established multi-echo Dixon MRI sequence. European Journal of Radiology, 2021, 142, 109845.	2.6	9
139	Phenotypic Multiorgan Involvement of Subclinical Disease as Quantified by Magnetic Resonance Imaging in Subjects With Prediabetes, Diabetes, and Normal Glucose Tolerance. Investigative Radiology, 2018, 53, 357-364.	6.2	8
140	The Gly385(388)Arg Polymorphism of the FGFR4 Receptor Regulates Hepatic Lipogenesis Under Healthy Diet. Journal of Clinical Endocrinology and Metabolism, 2019, 104, 2041-2053.	3.6	8
141	Noninvasive, longitudinal imaging-based analysis of body adipose tissue and water composition in a melanoma mouse model and in immune checkpoint inhibitor-treated metastatic melanoma patients. Cancer Immunology, Immunotherapy, 2021, 70, 1263-1275.	4.2	8
142	Lifestyle Intervention Improves Prothrombotic Coagulation Profile in Individuals at High Risk for Type 2 Diabetes. Journal of Clinical Endocrinology and Metabolism, 2021, 106, e3198-e3207.	3.6	8
143	In Vivo Proton NMR Studies in Skeletal Musculature. Annual Reports on NMR Spectroscopy, 2003, 50, 1-74.	1.5	8
144	Shortâ€Term Variability of Proton Density Fat Fraction in Pancreas and Liver Assessed by Multiecho Chemicalâ€Shift Encodingâ€Based <scp>MRI</scp> at 3ÂT. Journal of Magnetic Resonance Imaging, 2022, 56, 1018-1026.	3.4	8

#	Article	IF	Citations
145	Populationâ€based cohort imaging: skeletal muscle mass by magnetic resonance imaging in correlation to bioelectricalâ€impedance analysis. Journal of Cachexia, Sarcopenia and Muscle, 2022, 13, 976-986.	7.3	8
146	Vertebral Bone Marrow Fat Is independently Associated to VAT but Not to SAT: KORA FF4â€"Whole-Body MR Imaging in a Population-Based Cohort. Nutrients, 2020, 12, 1527.	4.1	7
147	Sequence parameters of double spin-echo sequences affect quantification of citrate. Magnetic Resonance Imaging, 1996, 14, 663-672.	1.8	5
148	Predictive effect of GIPR SNP rs10423928 on glucose metabolism liver fat and adiposity in prediabetic and diabetic subjects. Peptides, 2020, 125, 170237.	2.4	5
149	A comparison of emulsifiers for the formation of oil-in-water emulsions: stability of the emulsions within 9Âh after production and MR signal properties. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2022, 35, 401-410.	2.0	5
150	The German Gestational Diabetes Study (PREG), a prospective multicentre cohort study: rationale, methodology and design. BMJ Open, 2022, 12, e058268.	1.9	5
151	Normal-Weight 14-Year-Old Girl with Acanthosis Nigricans and Markedly Increased Hepatic Steatosis: Evidence for the Important Role of Ectopic Fat Deposition in the Pathogenesis of Insulin Resistance in Childhood and Adolescence. Hormone Research in Paediatrics, 2010, 74, 376-380.	1.8	4
152	Common Genetic Variation in the Human CTF1 Locus, Encoding Cardiotrophin-1, Determines Insulin Sensitivity. PLoS ONE, 2014, 9, e100391.	2.5	4
153	Free fatty acids, glicentin and glucose-dependent insulinotropic polypeptide as potential major determinants of fasting substrate oxidation. Scientific Reports, 2021, 11, 16642.	3.3	4
154	Eight weeks of empagliflozin does not affect pancreatic fat content and insulin secretion in people with prediabetes. Diabetes, Obesity and Metabolism, 2022, 24, 1661-1666.	4.4	4
155	Magnetic Resonance Techniques for Assessment of Body Components. Hormone Research in Paediatrics, 2006, 66, 65-72.	1.8	3
156	Single Nucleotide Polymorphisms in the G-Protein Coupled Receptor Kinase 5 (GRK5) Gene are associated with Plasma LDL-Cholesterol Levels in Humans. Scientific Reports, 2018, 8, 7745.	3.3	3
157	Long distance running â€“ Can bioprofiling predict success in endurance athletes?. Medical Hypotheses, 2021, 146, 110474.	1.5	3
158	Liver fat scores do not reflect interventional changes in liver fat content induced by high-protein diets. Scientific Reports, 2021, 11, 8843.	3.3	3
159	Impaired Metabolic Health and Low Cardiorespiratory Fitness Independently Associate With Subclinical Atherosclerosis in Obesity. Journal of Clinical Endocrinology and Metabolism, 2022, , .	3.6	3
160	Determinants of hepatic insulin clearance â€“ Results from a Mendelian Randomization study. Metabolism: Clinical and Experimental, 2021, 119, 154776.	3.4	2
161	Resolution of severe hepatosteatosis in a cystic fibrosis patient with multifactorial choline deficiency: A case report. Nutrition, 2021, 89, 111348.	2.4	2
162	Long-term effects of a food pattern on cardiovascular risk factors and age-related changes of muscular and cognitive function. Medicine (United States), 2020, 99, e22381.	1.0	2

#	Article	IF	Citations
163	Magnetic resonance techniques for mapping fat deposits and directing therapy. Clinical Lipidology, 2011, 6, 93-107.	0.4	1
164	Applications of Fat Mapping. Advances in Magnetic Resonance Technology and Applications, 2020, 1, 735-777.	0.1	1
165	A fully automatic reference deconvolution strategy to increase the accuracy of in vivo lipid signal quantification. Magnetic Resonance in Medicine, 2016, 75, 1391-1401.	3.0	0
166	Editorial for â€œConcentration of Gallbladder Phosphatidylcholine in Cholangiopathies: A <scp>³¹P MR</scp> Spectroscopy Pilot Studyâ€• Journal of Magnetic Resonance Imaging, 2022, 55, 541-542.	3.4	0