Joerg Heeren

List of Publications by Year in descending order

105 papers	10,710 citations	53789 45 h-index	33889 99 g-index
110 all docs	110 docs citations	110 times ranked	17653 citing authors

#	Article	IF	Citations
1	The TREM2-APOE Pathway Drives the Transcriptional Phenotype of Dysfunctional Microglia in Neurodegenerative Diseases. Immunity, 2017, 47, 566-581.e9.	14.3	1,741
2	Brown adipose tissue activity controls triglyceride clearance. Nature Medicine, 2011, 17, 200-205.	30.7	1,367
3	Adipose tissue browning and metabolic health. Nature Reviews Endocrinology, 2014, 10, 24-36.	9.6	882
4	Next-generation in vivo optical imaging with short-wave infrared quantum dots. Nature Biomedical Engineering, 2017, 1, .	22.5	490
5	The endocrine function of adipose tissues in health and cardiometabolic disease. Nature Reviews Endocrinology, 2019, 15, 507-524.	9.6	393
6	Brown fat activation reduces hypercholesterolaemia and protects from atherosclerosis development. Nature Communications, 2015, 6, 6356.	12.8	360
7	Apolipoprotein AV Accelerates Plasma Hydrolysis of Triglyceriderich Lipoproteins by Interaction with Proteoglycan-bound Lipoprotein Lipase. Journal of Biological Chemistry, 2005, 280, 21553-21560.	3.4	253
8	De novo lipogenesis in human fat and liver is linked to ChREBP-Î² and metabolic health. Nature Communications, 2013, 4, 1528.	12.8	241
9	Cold-induced conversion of cholesterol to bile acids in mice shapes the gut microbiome and promotes adaptive thermogenesis. Nature Medicine, 2017, 23, 839-849.	30.7	225
10	Metabolic-associated fatty liver disease and lipoprotein metabolism. Molecular Metabolism, 2021, 50, 101238.	6.5	195
11	The TMAO-Producing Enzyme Flavin-Containing Monooxygenase 3 Regulates Obesity and the Beiging of White Adipose Tissue. Cell Reports, 2017, 19, 2451-2461.	6.4	194
12	FGF21 Lowers Plasma Triglycerides by Accelerating Lipoprotein Catabolism in White and Brown Adipose Tissues. Cell Metabolism, 2016, 23, 441-453.	16.2	188
13	TGF-Î²-dependent induction of CD4+CD25+Foxp3+ Tregs by liver sinusoidal endothelial cells. Journal of Hepatology, 2014, 61, 594-599.	3.7	185
14	Real-time magnetic resonance imaging and quantification of lipoprotein metabolism in vivo using nanocrystals. Nature Nanotechnology, 2009, 4, 193-201.	31.5	159
15	Nanoparticle-based autoantigen delivery to Treg-inducing liver sinusoidal endothelial cells enables control of autoimmunity in mice. Journal of Hepatology, 2015, 62, 1349-1356.	3.7	145
16	Exosomal microRNA miR-92a concentration in serum reflects human brown fat activity. Nature Communications, 2016, 7, 11420.	12.8	137
17	Metabolic interplay between white, beige, brown adipocytes and the liver. Journal of Hepatology, 2016, 64, 1176-1186.	3.7	131
18	Lipolysis Triggers a Systemic Insulin Response Essential for Efficient Energy Replenishment of Activated Brown Adipose Tissue in Mice. Cell Metabolism, 2018, 28, 644-655.e4.	16.2	129

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19	Thermogenic adipocytes promote HDL turnover and reverse cholesterol transport. Nature Communications, 2017, 8, 15010.	12.8	117
20	Apolipoprotein E Recycling. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 442-448.	2.4	115
21	Scavenger Receptor Class B Type I Mediates the Selective Uptake of High-Density Lipoproteinâ€“Associated Cholesteryl Ester by the Liver in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 143-148.	2.4	105
22	Cholesterol Regulates Syntaxin 6 Trafficking at trans-Golgi Network Endosomal Boundaries. Cell Reports, 2014, 7, 883-897.	6.4	104
23	Apolipoprotein A-V; a potent triglyceride reducer. Atherosclerosis, 2011, 219, 15-21.	0.8	101
24	ANGPTL4 mediates shuttling of lipid fuel to brown adipose tissue during sustained cold exposure. ELife, 2015, 4, .	6.0	100
25	Lysosomal integral membrane protein-2 (LIMP-2/SCARB2) is involved in lysosomal cholesterol export. Nature Communications, 2019, 10, 3521.	12.8	99
26	Cold-Induced Brown Adipose Tissue Activity Alters Plasma Fatty Acids and Improves Glucose Metabolism in Men. Journal of Clinical Endocrinology and Metabolism, 2017, 102, 4226-4234.	3.6	96
27	Insulin stimulates hepatic low density lipoprotein receptor-related protein 1 (LRP1) to increase postprandial lipoprotein clearance. Atherosclerosis, 2009, 204, 105-111.	0.8	86
28	Stimulation of soluble guanylyl cyclase protects against obesity by recruiting brown adipose tissue. Nature Communications, 2015, 6, 7235.	12.8	85
29	Give me A5 for lipoprotein hydrolysis!. Journal of Clinical Investigation, 2005, 115, 2694-2696.	8.2	81
30	Metabolic Circuit Involving Free Fatty Acids, microRNA 122, and Triglyceride Synthesis in Liver and Muscle Tissues. Gastroenterology, 2017, 153, 1404-1415.	1.3	80
31	Alterations of the bile microbiome in primary sclerosing cholangitis. Gut, 2020, 69, 665-672.	12.1	80
32	Dichloroacetate prevents restenosis in preclinical animal models of vessel injury. Nature, 2014, 509, 641-644.	27.8	78
33	Uptake of postprandial lipoproteins into bone in vivo: Impact on osteoblast function. Bone, 2008, 43, 230-237.	2.9	77
34	Thyroid-Hormone-Induced Browning of White Adipose Tissue Does Not Contribute to Thermogenesis and Glucose Consumption. Cell Reports, 2019, 27, 3385-3400.e3.	6.4	76
35	Brown adipose tissue and lipid metabolism. Current Opinion in Lipidology, 2018, 29, 180-185.	2.7	75
36	The holy grail of metabolic disease. Current Opinion in Lipidology, 2012, 23, 190-195.	2.7	61

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37	A liquid chromatography-tandem mass spectrometry-based method for the simultaneous determination of hydroxy sterols and bile acids. Journal of Chromatography A, 2014, 1371, 184-195.	3.7	60
38	Endothelial-derived lipoprotein lipase is bound to postprandial triglyceride-rich lipoproteins and mediates their hepatic clearance in vivo. Journal of Molecular Medicine, 2002, 80, 576-584.	3.9	59
39	Endocannabinoid regulation in white and brown adipose tissue following thermogenic activation. Journal of Lipid Research, 2016, 57, 464-473.	4.2	57
40	Intact innervation is essential for diet-induced recruitment of brown adipose tissue. American Journal of Physiology - Endocrinology and Metabolism, 2019, 316, E487-E503.	3.5	54
41	Annexin A6 modulates TBC1D15/Rab7/StARD3 axis to control endosomal cholesterol export in NPC1 cells. Cellular and Molecular Life Sciences, 2020, 77, 2839-2857.	5.4	54
42	Lrp1/<scp>LDL</scp> Receptor Play Critical Roles in Mannose 6â€Phosphateâ€Independent Lysosomal Enzyme Targeting. Traffic, 2015, 16, 743-759.	2.7	52
43	Insulin Regulates Hepatic Triglyceride Secretion and Lipid Content via Signaling in the Brain. Diabetes, 2016, 65, 1511-1520.	0.6	49
44	The fate of a designed protein corona on nanoparticles in vitro and in vivo. Beilstein Journal of Nanotechnology, 2015, 6, 36-46.	2.8	48
45	Lysosomal lipoprotein processing in endothelial cells stimulates adipose tissue thermogenic adaptation. Cell Metabolism, 2021, 33, 547-564.e7.	16.2	48
46	Low Density Lipoprotein Receptor-Related Protein 1 Dependent Endosomal Trapping and Recycling of Apolipoprotein E. PLoS ONE, 2012, 7, e29385.	2.5	48
47	Apolipoprotein E-dependent inverse regulation of vertebral bone and adipose tissue mass in C57Bl/6 mice: Modulation by diet-induced obesity. Bone, 2010, 47, 736-745.	2.9	46
48	Effects of adipocyte lipoprotein lipase on de novo lipogenesis and white adipose tissue browning. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2013, 1831, 934-942.	2.4	46
49	Lrp1 in osteoblasts controls osteoclast activity and protects against osteoporosis by limiting PDGFâ€“RANKL signaling. Bone Research, 2018, 6, 4.	11.4	45
50	The adaptor protein PID1 regulates receptor-dependent endocytosis of postprandial triglyceride-rich lipoproteins. Molecular Metabolism, 2018, 16, 88-99.	6.5	45
51	Role of bile acids in inflammatory liver diseases. Seminars in Immunopathology, 2021, 43, 577-590.	6.1	45
52	Dietary protein restriction reduces circulating VLDL triglyceride levels via CREBH-APOA5â€“dependent and â€“independent mechanisms. JCI Insight, 2018, 3, .	5.0	42
53	Regulation of immunometabolism in adipose tissue. Seminars in Immunopathology, 2018, 40, 189-202.	6.1	40
54	A new, powerful player in lipoprotein metabolism: brown adipose tissue. Journal of Molecular Medicine, 2012, 90, 887-893.	3.9	39

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55	Quantification of Bone Fatty Acid Metabolism and Its Regulation by Adipocyte Lipoprotein Lipase. International Journal of Molecular Sciences, 2017, 18, 1264.	4.1	38
56	Replication of SARS-CoV-2 in adipose tissue determines organ and systemic lipid metabolism in hamsters and humans. Cell Metabolism, 2022, 34, 1-2.	16.2	37
57	Novel Aspects of Brown Adipose Tissue Biology. Endocrinology and Metabolism Clinics of North America, 2013, 42, 89-107.	3.2	35
58	Novel Mouse Models of Methylmalonic Aciduria Recapitulate Phenotypic Traits with a Genetic Dosage Effect. Journal of Biological Chemistry, 2016, 291, 20563-20573.	3.4	35
59	Endogenous Fatty Acid Synthesis Drives Brown Adipose Tissue Involution. Cell Reports, 2021, 34, 108624.	6.4	33
60	Functional changes of the gastric bypass microbiota reactivate thermogenic adipose tissue and systemic glucose control via intestinal FXR-TGR5 crosstalk in diet-induced obesity. Microbiome, 2022, 10, .	11.1	32
61	A MAFG-lncRNA axis links systemic nutrient abundance to hepatic glucose metabolism. Nature Communications, 2020, 11, 644.	12.8	29
62	Dual NADPH oxidases DUOX1 and DUOX2 synthesize NAADP and are necessary for Ca ²⁺ signaling during T cell activation. Science Signaling, 2021, 14, eabe3800.	3.6	28
63	Characterization of lipid metabolism in insulin-sensitive adipocytes differentiated from immortalized human mesenchymal stem cells. Experimental Cell Research, 2008, 314, 814-824.	2.6	27
64	The role of Apolipoprotein E in bone metabolism. Bone, 2012, 50, 518-524.	2.9	27
65	Impaired LDL Receptor-Related Protein 1 Translocation Correlates with Improved Dyslipidemia and Atherosclerosis in apoE-Deficient Mice. PLoS ONE, 2012, 7, e38330.	2.5	26
66	Liver infiltrating T cells regulate bile acid metabolism in experimental cholangitis. Journal of Hepatology, 2019, 71, 783-792.	3.7	26
67	Homozygosity for a partial deletion of apoprotein A-V signal peptide results in intracellular missorting of the protein and chylomicronemia in a breast-fed infant. Atherosclerosis, 2014, 233, 97-103.	0.8	24
68	Apolipoprotein E promotes lipid accumulation and differentiation in human adipocytes. Experimental Cell Research, 2015, 337, 94-102.	2.6	22
69	Liver TAG Transiently Decreases While PL nâ€3 and nâ€6 Fatty Acids are Persistently Elevated in Insulin Resistant Mice. Lipids, 2008, 43, 1039-1051.	1.7	18
70	Altered hepatic glucose homeostasis in AnxA6-KO mice fed a high-fat diet. PLoS ONE, 2018, 13, e0201310.	2.5	18
71	Apolipoprotein E4 disrupts the neuroprotective action of sortilin in neuronal lipid metabolism and endocannabinoid signaling. Alzheimer's and Dementia, 2020, 16, 1248-1258.	0.8	18
72	CD38 downregulation modulates NAD+ and NADP(H) levels in thermogenic adipose tissues. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2021, 1866, 158819.	2.4	18

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73	TFEB deficiency attenuates mitochondrial degradation upon brown adipose tissue whitening at thermoneutrality. Molecular Metabolism, 2021, 47, 101173.	6.5	17
74	Diabetes prevalence in NZO females depends on estrogen action on liver fat content. American Journal of Physiology - Endocrinology and Metabolism, 2015, 309, E968-E980.	3.5	16
75	Genetic Dissection of Tissue-Specific Apolipoprotein E Function for Hypercholesterolemia and Diet-Induced Obesity. PLoS ONE, 2015, 10, e0145102.	2.5	16
76	Brown adipose tissue lipoprotein and glucose disposal is not determined by thermogenesis in uncoupling protein 1-deficient mice. Journal of Lipid Research, 2020, 61, 1377-1389.	4.2	15
77	Susceptibility to diet-induced obesity at thermoneutral conditions is independent of UCP1. American Journal of Physiology - Endocrinology and Metabolism, 2022, 322, E85-E100.	3.5	14
78	The cell-type specific uptake of polymer-coated or micelle-embedded QDs and SPIOs does not provoke an acute pro-inflammatory response in the liver. Beilstein Journal of Nanotechnology, 2014, 5, 1432-1440.	2.8	13
79	Naturally Occurring Variants in LRP1 (Low-Density Lipoprotein Receptorâ€“Related Protein 1) Affect HDL (High-Density Lipoprotein) Metabolism Through ABCA1 (ATP-Binding Cassette A1) and SR-B1 (Scavenger) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 1440-1453.	2.4	13
80	Inulin Supplementation Disturbs Hepatic Cholesterol and Bile Acid Metabolism Independent from Housing Temperature. Nutrients, 2020, 12, 3200.	4.1	12
81	Implications of thermogenic adipose tissues for metabolic health. Best Practice and Research in Clinical Endocrinology and Metabolism, 2016, 30, 487-496.	4.7	11
82	PID1 regulates insulin-dependent glucose uptake by controlling intracellular sorting of GLUT4-storage vesicles. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 1592-1603.	3.8	11
83	Aryl Hydrocarbon Receptor Activity in Hepatocytes Sensitizes to Hyperacute Acetaminophen-Induced Hepatotoxicity in Mice. Cellular and Molecular Gastroenterology and Hepatology, 2021, 11, 371-388.	4.5	11
84	Nanocrystals, a New Tool to Study Lipoprotein Metabolism and Atherosclerosis. Current Pharmaceutical Biotechnology, 2012, 13, 365-372.	1.6	10
85	Effects of Pharmacological Thermogenic Adipocyte Activation on Metabolism and Atherosclerotic Plaque Regression. Nutrients, 2019, 11, 463.	4.1	10
86	Thermoneutrality-Induced Macrophage Accumulation in Brown Adipose Tissue Does Not Impair the Tissueâ€™s Competence for Cold-Induced Thermogenic Recruitment. Frontiers in Endocrinology, 2020, 11, 568682.	3.5	10
87	Oxysterol 7-Î± Hydroxylase (CYP7B1) Attenuates Metabolic-Associated Fatty Liver Disease in Mice at Thermoneutrality. Cells, 2021, 10, 2656.	4.1	10
88	A Gas Chromatography Mass Spectrometry-Based Method for the Quantification of Short Chain Fatty Acids. Metabolites, 2022, 12, 170.	2.9	10
89	Hepatic lipase is expressed by osteoblasts and modulates bone remodeling in obesity. Bone, 2014, 62, 90-98.	2.9	9
90	Endothelial Lipase Is Involved in Cold-Induced High-Density Lipoprotein Turnover and Reverse Cholesterol Transport in Mice. Frontiers in Cardiovascular Medicine, 2021, 8, 628235.	2.4	9

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91	Isthmin 1 â€" a novel insulin-like adipokine. Nature Reviews Endocrinology, 2021, 17, 709-710.	9.6	7
92	Utilizing immunoaffinity chromatography (IAC) cross-reactivity in GCâ€"MS/MS exemplified at the measurement of prostaglandin E1 in human plasma using prostaglandin E2-specific IAC columns. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1021, 101-107.	2.3	6
93	The P2X7 ion channel is dispensable for energy and metabolic homeostasis of white and brown adipose tissues. Purinergic Signalling, 2020, 16, 529-542.	2.2	6
94	Lysosomal acid lipase promotes endothelial proliferation in cold-activated adipose tissue. Adipocyte, 2022, 11, 28-33.	2.8	3
95	Hypertriglyceridemia in obese subjects: Caused by reduced apolipoprotein A5 plasma levels?. Atherosclerosis, 2010, 212, 386-387.	0.8	2
96	Metabolite profiling: development and application of an UHR-QTOF-MS(/MS) method approach for the assessment of metabolic changes in high fat diet fed mice. Metabolomics, 2017, 13, 1.	3.0	2
97	Introduction to the special issue on dietary control of immunometabolism. Seminars in Immunopathology, 2018, 40, 141-144.	6.1	2
98	Role of CD38 in Adipose Tissue: Tuning Coenzyme Availability?. Nutrients, 2021, 13, 3734.	4.1	2
99	Role of Endothelial Cell Lipoprotein Lipase for Brown Adipose Tissue Lipid and Glucose Handling. Frontiers in Physiology, 2022, 13, 859671.	2.8	2
100	Cold-Induced Lipoprotein Clearance in Cyp7b1-Deficient Mice. Frontiers in Cell and Developmental Biology, 2022, 10, 836741.	3.7	2
101	Comment on â€œMice Lacking the Purinergic Receptor P2X5 Exhibit Defective Inflammasome Activation and Early Susceptibility to Listeria monocytogenesâ€. Journal of Immunology, 2021, 206, 667-667.	0.8	1
102	Novel Adipose Tissue Targets to Prevent and Treat Atherosclerosis. Handbook of Experimental Pharmacology, 2020, , 1.	1.8	1
103	Metabolic Turnover Studies to Quantify Energy Uptake by Thermogenic Adipose Tissues of Mice. Methods in Molecular Biology, 2022, 2448, 107-118.	0.9	1
104	The GTPase ARFRP1 controls assembly of apoA1 to and lipidation of chylomicron in the Golgi of intestinal enterocyte. FASEB Journal, 2012, 26, 242.5.	0.5	0
105	Assessment of Uptake and Biodistribution of Radiolabeled Cholesterol in Mice Using Gavaged Recombinant Triglyceride-rich Lipoprotein Particles (rTRL). Bio-protocol, 2018, 8, e2916.	0.4	0