Dirk-Jan Reijngoud

List of Publications by Year in Descending Order

55 papers	4,447 citations	25 h-index	60 g-index
60 ext. papers	5,533 ext. citations	5.2 avg, IF	5.22 L-index

#	Paper	IF	Citations
55	A toolbox for the comprehensive analysis of small volume human intestinal samples that can be used with gastrointestinal sampling capsules. *Scientific Reports*, **2021**, 11, 8133	4.9	2
54	Impaired Very-Low-Density Lipoprotein catabolism links hypoglycemia to hypertriglyceridemia in Glycogen Storage Disease type Ia. *Journal of Inherited Metabolic Disease*, **2021**, 44, 879-892	5.4	7
53	Simultaneous Quantification of the Concentration and Carbon Isotopologue Distribution of Polar Metabolites in a Single Analysis by Gas Chromatography and Mass Spectrometry. *Analytical Chemistry*, **2021**, 93, 8248-8256	7.8	1
52	Age-related susceptibility to insulin resistance arises from a combination of CPT1B decline and lipid overload. *BMC Biology*, **2021**, 19, 154	7.3	1
51	Enantiomer-specific pharmacokinetics of D,L-3-hydroxybutyrate: Implications for the treatment of multiple acyl-CoA dehydrogenase deficiency. *Journal of Inherited Metabolic Disease*, **2021**, 44, 926-938	5.4	3
50	Bistability in fatty-acid oxidation resulting from substrate inhibition. *PLoS Computational Biology*, **2021**, 17, e1009259	5	
49	Spontaneous liver disease in wild-type C57BL/6JOlaHsd mice fed semisynthetic diet. *PLoS ONE*, **2020**, 15, e0232069	3.7	2
48	Spontaneous liver disease in wild-type C57BL/6JOlaHsd mice fed semisynthetic diet **2020**, 15, e0232069		
47	Spontaneous liver disease in wild-type C57BL/6JOlaHsd mice fed semisynthetic diet **2020**, 15, e0232069		
46	Spontaneous liver disease in wild-type C57BL/6JOlaHsd mice fed semisynthetic diet **2020**, 15, e0232069		
45	Spontaneous liver disease in wild-type C57BL/6JOlaHsd mice fed semisynthetic diet **2020**, 15, e0232069		
44	A large pooled analysis refines gene expression-based molecular subclasses in cutaneous melanoma. *OncoImmunology*, **2019**, 8, 1558664	7.2	
43	Transcriptome analysis suggests a compensatory role of the cofactors coenzyme A and NAD in medium-chain acyl-CoA dehydrogenase knockout mice. *Scientific Reports*, **2019**, 9, 14539	4.9	2
42	Running wheel access fails to resolve impaired sustainable health in mice feeding a high fat sucrose diet. *Aging*, **2019**, 11, 1564-1579	5.6	1
41	Flux analysis of inborn errors of metabolism. *Journal of Inherited Metabolic Disease*, **2018**, 41, 309-328	5.4	9
40	One- vs two-phase extraction: re-evaluation of sample preparation procedures for untargeted lipidomics in plasma samples. *Analytical and Bioanalytical Chemistry*, **2018**, 410, 5859-5870	4.4	38
39	Running-wheel activity delays mitochondrial respiratory flux decline in aging mouse muscle via a post-transcriptional mechanism. *Aging Cell*, **2018**, 17, e12700	9.9	22

38	Applications in Fat Absorption and Metabolism **2017**, 175-196		2
37	The promiscuous enzyme medium-chain 3-keto-acyl-CoA thiolase triggers a vicious cycle in fatty-acid beta-oxidation. *PLoS Computational Biology*, **2017**, 13, e1005461	5	12
36	Reliable Diagnosis of Carnitine Palmitoyltransferase Type IA Deficiency by Analysis of Plasma Acylcarnitine Profiles. *JIMD Reports*, **2017**, 32, 33-39	1.9	8
35	Hepatocytes contribute to residual glucose production in a mouse model for glycogen storage disease type Ia. *Hepatology*, **2017**, 66, 2042-2054	11.2	12
34	The degradation of nucleotide triphosphates extracted under boiling ethanol conditions is prevented by the yeast cellular matrix. *Metabolomics*, **2017**, 13, 1	4.7	9
33	Living on the edge: substrate competition explains loss of robustness in mitochondrial fatty-acid oxidation disorders. *BMC Biology*, **2016**, 14, 107	7.3	15
32	Whole-Body Vibration Partially Reverses Aging-Induced Increases in Visceral Adiposity and Hepatic Lipid Storage in Mice. *PLoS ONE*, **2016**, 11, e0149419	3.7	9
31	Malnutrition-associated liver steatosis and ATP depletion is caused by peroxisomal and mitochondrial dysfunction. *Journal of Hepatology*, **2016**, 65, 1198-1208	13.4	78
30	Short-Chain Fatty Acids Protect Against High-Fat Diet-Induced Obesity via a PPAR□Dependent Switch From Lipogenesis to Fat Oxidation. *Diabetes*, **2015**, 64, 2398-408	0.9	469
29	Extracellular 4∀phosphopantetheine is a source for intracellular coenzyme A synthesis. *Nature Chemical Biology*, **2015**, 11, 784-92	11.7	74
28	Phenylketonuria: brain phenylalanine concentrations relate inversely to cerebral protein synthesis. *Journal of Cerebral Blood Flow and Metabolism*, **2015**, 35, 200-5	7.3	12
27	Stability of energy metabolites-An often overlooked issue in metabolomics studies: A review. *Electrophoresis*, **2015**, 36, 2156-2169	3.6	37
26	Protection against the Metabolic Syndrome by Guar Gum-Derived Short-Chain Fatty Acids Depends on Peroxisome Proliferator-Activated Receptor □and Glucagon-Like Peptide-1. *PLoS ONE*, **2015**, 10, e0136364	3.7	72
25	Chemical and technical challenges in the analysis of central carbon metabolites by liquid-chromatography mass spectrometry. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2014**, 966, 21-33	3.2	41
24	The short-chain fatty acid uptake fluxes by mice on a guar gum supplemented diet associate with amelioration of major biomarkers of the metabolic syndrome. *PLoS ONE*, **2014**, 9, e107392	3.7	51
23	In vitro and in vivo consequences of variant medium-chain acyl-CoA dehydrogenase genotypes. *Orphanet Journal of Rare Diseases*, **2013**, 8, 43	4.2	13
22	The role of short-chain fatty acids in the interplay between diet, gut microbiota, and host energy metabolism. *Journal of Lipid Research*, **2013**, 54, 2325-40	6.3	2211
21	Impaired amino acid metabolism contributes to fasting-induced hypoglycemia in fatty acid oxidation defects. *Human Molecular Genetics*, **2013**, 22, 5249-61	5.6	41

20	Biochemical competition makes fatty-acid β-oxidation vulnerable to substrate overload. *PLoS Computational Biology*, **2013**, 9, e1003186	5	37
19	Gut-derived short-chain fatty acids are vividly assimilated into host carbohydrates and lipids. *American Journal of Physiology - Renal Physiology*, **2013**, 305, G900-10	5.1	279
18	Risk stratification by residual enzyme activity after newborn screening for medium-chain acyl-CoA dehyrogenase deficiency: data from a cohort study. *Orphanet Journal of Rare Diseases*, **2012**, 7, 30	4.2	20
17	Pantethine rescues a Drosophila model for pantothenate kinase-associated neurodegeneration. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 6988-93	11.5	113
16	Carbohydrate-response-element-binding protein (ChREBP) and not the liver X receptor α (LXRα) mediates elevated hepatic lipogenic gene expression in a mouse model of glycogen storage disease type 1. *Biochemical Journal*, **2010**, 432, 249-54	3.8	29
15	Fenofibrate simultaneously induces hepatic fatty acid oxidation, synthesis, and elongation in mice. *Journal of Biological Chemistry*, **2009**, 284, 34036-44	5.4	118
14	High fat feeding induces hepatic fatty acid elongation in mice. *PLoS ONE*, **2009**, 4, e6066	3.7	116
13	Increased de novo lipogenesis and delayed conversion of large VLDL into intermediate density lipoprotein particles contribute to hyperlipidemia in glycogen storage disease type 1a. *Pediatric Research*, **2008**, 63, 702-7	3.2	60
12	Lxralpha deficiency hampers the hepatic adaptive response to fasting in mice. *Journal of Biological Chemistry*, **2008**, 283, 25437-25445	5.4	28
11	Neonatal screening for medium-chain acyl-CoA dehydrogenase (MCAD) deficiency in The Netherlands: the importance of enzyme analysis to ascertain true MCAD deficiency. *Journal of Inherited Metabolic Disease*, **2008**, 31, 88-96	5.4	37
10	Inhibition of mitochondrial fatty acid oxidation in vivo only slightly suppresses gluconeogenesis but enhances clearance of glucose in mice. *Hepatology*, **2008**, 47, 1032-42	11.2	26
9	Disturbed hepatic carbohydrate management during high metabolic demand in medium-chain acyl-CoA dehydrogenase (MCAD)-deficient mice. *Hepatology*, **2008**, 47, 1894-904	11.2	34
8	The natural history of medium-chain acyl CoA dehydrogenase deficiency in the Netherlands: clinical presentation and outcome. *Journal of Pediatrics*, **2006**, 148, 665-670	3.6	77
7	Oxidative metabolism appears to be reduced in long-term hemodialysis patients. *American Journal of Kidney Diseases*, **2005**, 46, 102-10	7.4	5
6	Comparison of amino acid oxidation and urea metabolism in haemodialysis patients during fasting and meal intake. *Nephrology Dialysis Transplantation*, **2004**, 19, 1533-41	4.3	7
5	Quantification of hepatic carbohydrate metabolism in conscious mice using serial blood and urine spots. *Analytical Biochemistry*, **2003**, 322, 1-13	3.1	53
4	Acute inhibition of hepatic glucose-6-phosphatase does not affect gluconeogenesis but directs gluconeogenic flux toward glycogen in fasted rats. A pharmacological study with the chlorogenic acid derivative S4048. *Journal of Biological Chemistry*, **2001**, 276, 25727-35	5.4	72
3	Acute inhibition of glucose-6-phosphate translocator activity leads to increased de novo lipogenesis and development of hepatic steatosis without affecting VLDL production in rats. *Diabetes*, **2001**, 50, 2591-7	0.9	55

2	Determination of low isotopic enrichment of L-[1-13C]valine by gas chromatography/combustion/isotope ratio mass spectrometry: a robust method for measuring protein fractional synthetic rates in vivo. *Journal of Mass Spectrometry*, **1998**, 33, 621-6	2.2	18
1	Insulin-like growth factor-I fails to reverse corticosteroid-induced protein catabolism in growing piglets. *Pediatric Research*, **1996**, 39, 421-6	3.2	9