# Dirk-Jan Reijngoud

## List of Publications by Citations



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| 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 | 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 |
| 54 | 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 |
| 53 | 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 |
| 52 | Fenofibrate simultaneously induces hepatic fatty acid oxidation, synthesis, and elongation in mice. *Journal of Biological Chemistry*, **2009**, 284, 34036-44 | 5.4 | 118 |
| 51 | High fat feeding induces hepatic fatty acid elongation in mice. *PLoS ONE*, **2009**, 4, e6066 | 3.7 | 116 |
| 50 | 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 |
| 49 | Malnutrition-associated liver steatosis and ATP depletion is caused by peroxisomal and mitochondrial dysfunction. *Journal of Hepatology*, **2016**, 65, 1198-1208 | 13.4 | 78 |
| 48 | 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 |
| 47 | Extracellular 4∀phosphopantetheine is a source for intracellular coenzyme A synthesis. *Nature Chemical Biology*, **2015**, 11, 784-92 | 11.7 | 74 |
| 46 | 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 |
| 45 | 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 |
| 44 | 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 |
| 43 | 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 |
| 42 | Quantification of hepatic carbohydrate metabolism in conscious mice using serial blood and urine spots. *Analytical Biochemistry*, **2003**, 322, 1-13 | 3.1 | 53 |
| 41 | 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 |
| 40 | 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 |
| 39 | Impaired amino acid metabolism contributes to fasting-induced hypoglycemia in fatty acid oxidation defects. *Human Molecular Genetics*, **2013**, 22, 5249-61 | 5.6 | 41 |

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| 38 | 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 |
| 37 | Stability of energy metabolites-An often overlooked issue in metabolomics studies: A review. *Electrophoresis*, **2015**, 36, 2156-2169 | 3.6 | 37 |
| 36 | Biochemical competition makes fatty-acid β-oxidation vulnerable to substrate overload. *PLoS Computational Biology*, **2013**, 9, e1003186 | 5 | 37 |
| 35 | 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 |
| 34 | 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 |
| 33 | 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 |
| 32 | Lxralpha deficiency hampers the hepatic adaptive response to fasting in mice. *Journal of Biological Chemistry*, **2008**, 283, 25437-25445 | 5.4 | 28 |
| 31 | 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 |
| 30 | 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 |
| 29 | 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 |
| 28 | 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 |
| 27 | Living on the edge: substrate competition explains loss of robustness in mitochondrial fatty-acid oxidation disorders. *BMC Biology*, **2016**, 14, 107 | 7.3 | 15 |
| 26 | 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 |
| 25 | Phenylketonuria: brain phenylalanine concentrations relate inversely to cerebral protein synthesis. *Journal of Cerebral Blood Flow and Metabolism*, **2015**, 35, 200-5 | 7.3 | 12 |
| 24 | 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 |
| 23 | Hepatocytes contribute to residual glucose production in a mouse model for glycogen storage disease type Ia. *Hepatology*, **2017**, 66, 2042-2054 | 11.2 | 12 |
| 22 | Flux analysis of inborn errors of metabolism. *Journal of Inherited Metabolic Disease*, **2018**, 41, 309-328 | 5.4 | 9 |
| 21 | The degradation of nucleotide triphosphates extracted under boiling ethanol conditions is prevented by the yeast cellular matrix. *Metabolomics*, **2017**, 13, 1 | 4.7 | 9 |

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| 20 | Insulin-like growth factor-I fails to reverse corticosteroid-induced protein catabolism in growing piglets. *Pediatric Research*, **1996**, 39, 421-6 | 3.2 | 9 |
| 19 | 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 |
| 18 | Reliable Diagnosis of Carnitine Palmitoyltransferase Type IA Deficiency by Analysis of Plasma Acylcarnitine Profiles. *JIMD Reports*, **2017**, 32, 33-39 | 1.9 | 8 |
| 17 | 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 |
| 16 | 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 |
| 15 | Oxidative metabolism appears to be reduced in long-term hemodialysis patients. *American Journal of Kidney Diseases*, **2005**, 46, 102-10 | 7.4 | 5 |
| 14 | 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 |
| 13 | Applications in Fat Absorption and Metabolism **2017**, 175-196 | | 2 |
| 12 | 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 |
| 11 | Spontaneous liver disease in wild-type C57BL/6JOlaHsd mice fed semisynthetic diet. *PLoS ONE*, **2020**, 15, e0232069 | 3.7 | 2 |
| 10 | 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 |
| 9 | 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 |
| 8 | 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 |
| 7 | Age-related susceptibility to insulin resistance arises from a combination of CPT1B decline and lipid overload. *BMC Biology*, **2021**, 19, 154 | 7.3 | 1 |
| 6 | A large pooled analysis refines gene expression-based molecular subclasses in cutaneous melanoma. *OncoImmunology*, **2019**, 8, 1558664 | 7.2 | |
| 5 | Bistability in fatty-acid oxidation resulting from substrate inhibition. *PLoS Computational Biology*, **2021**, 17, e1009259 | 5 | |
| 4 | Spontaneous liver disease in wild-type C57BL/6JOlaHsd mice fed semisynthetic diet **2020**, 15, e0232069 | | |
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# List of Publications

2 Spontaneous liver disease in wild-type C57BL/6JOlaHsd mice fed semisynthetic diet **2020**, 15, e0232069

1 Spontaneous liver disease in wild-type C57BL/6JOlaHsd mice fed semisynthetic diet **2020**, 15, e0232069