

# Michel van Weeghel

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

2,290  
citations

201674

27  
h-index

254184

43  
g-index

73  
all docs

73  
docs citations

73  
times ranked

4039  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Defective Pentose Phosphate Pathway Reduces Inflammatory Macrophage Responses during Hypercholesterolemia. <i>Cell Reports</i> , 2018, 25, 2044-2052.e5.	6.4	140
2	Riboflavin-responsive oxidative phosphorylation complex I deficiency caused by defective ACAD9: new function for an old gene. <i>Brain</i> , 2011, 134, 210-219.	7.6	113
3	Nuclear Receptor Nur77 Limits the Macrophage Inflammatory Response through Transcriptional Reprogramming of Mitochondrial Metabolism. <i>Cell Reports</i> , 2018, 24, 2127-2140.e7.	6.4	110
4	Mitochondrial long chain fatty acid $\hat{I}^2$ -oxidation in man and mouse. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2009, 1791, 806-815.	2.4	109
5	Post-natal myogenic and adipogenic developmental. <i>Nucleus</i> , 2011, 2, 195-207.	2.2	97
6	Atherogenic Lipoprotein(a) Increases Vascular Glycolysis, Thereby Facilitating Inflammation and Leukocyte Extravasation. <i>Circulation Research</i> , 2020, 126, 1346-1359.	4.5	96
7	A Conserved Mito-Cytosolic Translational Balance Links Two Longevity Pathways. <i>Cell Metabolism</i> , 2020, 31, 549-563.e7.	16.2	87
8	Mutations in PCYT2 disrupt etherlipid biosynthesis and cause a complex hereditary spastic paraplegia. <i>Brain</i> , 2019, 142, 3382-3397.	7.6	76
9	Glutaminase Deficiency Caused by Short Tandem Repeat Expansion in <i>GLS</i> . <i>New England Journal of Medicine</i> , 2019, 380, 1433-1441.	27.0	71
10	Macrophage ATP citrate lyase deficiency stabilizes atherosclerotic plaques. <i>Nature Communications</i> , 2020, 11, 6296.	12.8	70
11	Fasting-Induced Myocardial Lipid Accumulation in Long-Chain Acyl-CoA Dehydrogenase Knockout Mice Is Accompanied by Impaired Left Ventricular Function. <i>Circulation: Cardiovascular Imaging</i> , 2011, 4, 558-565.	2.6	69
12	Disease progression in women with X-linked adrenoleukodystrophy is slow. <i>Orphanet Journal of Rare Diseases</i> , 2019, 14, 30.	2.7	58
13	Glycine promotes longevity in <i>Caenorhabditis elegans</i> in a methionine cycle-dependent fashion. <i>PLoS Genetics</i> , 2019, 15, e1007633.	3.5	55
14	Barth syndrome cells display widespread remodeling of mitochondrial complexes without affecting metabolic flux distribution. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3650-3658.	3.8	53
15	Pyruvate dehydrogenase complex plays a central role in brown adipocyte energy expenditure and fuel utilization during short-term beta-adrenergic activation. <i>Scientific Reports</i> , 2018, 8, 9562.	3.3	53
16	Identification of key pathways and metabolic fingerprints of longevity in <i>C. elegans</i> . <i>Experimental Gerontology</i> , 2018, 113, 128-140.	2.8	50
17	Reduced nicotinamide mononucleotide is a new and potent NAD <sup>+</sup> precursor in mammalian cells and mice. <i>FASEB Journal</i> , 2021, 35, e21456.	0.5	42
18	Functional redundancy of mitochondrial enoyl-CoA isomerases in the oxidation of unsaturated fatty acids. <i>FASEB Journal</i> , 2012, 26, 4316-4326.	0.5	40

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19	Modeling Meets Metabolomicsâ€”The WormJam Consensus Model as Basis for Metabolic Studies in the Model Organism <i>Caenorhabditis elegans</i> . <i>Frontiers in Molecular Biosciences</i> , 2018, 5, 96.	3.5	40
20	Healthy aging and muscle function are positively associated with NAD <sup>+</sup> abundance in humans. <i>Nature Aging</i> , 2022, 2, 254-263.	11.6	39
21	Increased cardiac fatty acid oxidation in a mouse model with decreased malonyl-CoA sensitivity of CPT1B. <i>Cardiovascular Research</i> , 2018, 114, 1324-1334.	3.8	37
22	Mitochondrial translation and dynamics synergistically extend lifespan in <i>C. elegans</i> through HLH-30. <i>Journal of Cell Biology</i> , 2020, 219, .	5.2	37
23	Hepatic Carbohydrate Response Element Binding Protein Activation Limits Nonalcoholic Fatty Liver Disease Development in a Mouse Model for Glycogen Storage Disease Type 1a. <i>Hepatology</i> , 2020, 72, 1638-1653.	7.3	34
24	HILPDA Uncouples Lipid Droplet Accumulation in Adipose Tissue Macrophages from Inflammation and Metabolic Dysregulation. <i>Cell Reports</i> , 2020, 30, 1811-1822.e6.	6.4	34
25	Role of Medium- and Short-Chain L-3-Hydroxyacyl-CoA Dehydrogenase in the Regulation of Body Weight and Thermogenesis. <i>Endocrinology</i> , 2011, 152, 4641-4651.	2.8	33
26	Industrial Trans Fatty Acids Stimulate SREBP2-Mediated Cholesterogenesis and Promote Non-Alcoholic Fatty Liver Disease. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1900385.	3.3	32
27	Carnitine supplementation attenuates myocardial lipid accumulation in long-chain acyl-CoA dehydrogenase knockout mice. <i>Journal of Inherited Metabolic Disease</i> , 2013, 36, 973-981.	3.6	31
28	Haploid genetic screens identify SPRING/C12ORF49 as a determinant of SREBP signaling and cholesterol metabolism. <i>Nature Communications</i> , 2020, 11, 1128.	12.8	30
29	Skeletal muscle in healthy humans exhibits a day-night rhythm in lipid metabolism. <i>Molecular Metabolism</i> , 2020, 37, 100989.	6.5	30
30	Hypoxia-inducible lipid droplet-associated induces DGAT1 and promotes lipid storage in hepatocytes. <i>Molecular Metabolism</i> , 2021, 47, 101168.	6.5	30
31	Development and application of a UHPLC-MS/MS metabolomics based comprehensive systemic and tissue-specific screening method for inflammatory, oxidative and nitrosative stress. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 2551-2568.	3.7	29
32	Ribosomal protein gene RPL9 variants can differentially impair ribosome function and cellular metabolism. <i>Nucleic Acids Research</i> , 2020, 48, 770-787.	14.5	28
33	Metabolomics and lipidomics in <i>Caenorhabditis elegans</i> using a single-sample preparation. <i>DMM Disease Models and Mechanisms</i> , 2021, 14, .	2.4	27
34	Nutritional ketosis improves exercise metabolism in patients with very long-chain acyl-CoA dehydrogenase deficiency. <i>Journal of Inherited Metabolic Disease</i> , 2020, 43, 787-799.	3.6	26
35	Metabolic differences between bronchial epithelium from healthy individuals and patients with asthma and the effect of bronchial thermoplasty. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 148, 1236-1248.	2.9	26
36	The effect of mirabegron on energy expenditure and brown adipose tissue in healthy lean South Asian and European men. <i>Diabetes, Obesity and Metabolism</i> , 2020, 22, 2032-2044.	4.4	25

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37	Lipidomics in Nonalcoholic Fatty Liver Disease. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2020, 71, 433-439.	1.8	22
38	Empagliflozin Decreases Lactate Generation in an NHE-1 Dependent Fashion and Increases $\hat{1}\pm$ -Ketoglutarate Synthesis From Palmitate in Type II Diabetic Mouse Hearts. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 592233.	2.4	22
39	The Antibiotic Doxycycline Impairs Cardiac Mitochondrial and Contractile Function. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4100.	4.1	20
40	Metabolic rerouting via SCD1 induction impacts X-linked adrenoleukodystrophy. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	17
41	NLRX1 Deletion Increases Ischemia-Reperfusion Damage and Activates Glucose Metabolism in Mouse Heart. <i>Frontiers in Immunology</i> , 2020, 11, 591815.	4.8	16
42	Aging selectively dampens oscillation of lipid abundance in white and brown adipose tissue. <i>Scientific Reports</i> , 2021, 11, 5932.	3.3	16
43	IgG Subclasses Shape Cytokine Responses by Human Myeloid Immune Cells through Differential Metabolic Reprogramming. <i>Journal of Immunology</i> , 2020, 205, 3400-3407.	0.8	15
44	Inhibition of Hepatic Bile Acid Uptake by Myrcludex B Promotes Glucagon-Like Peptide-1 Release and Reduces Obesity. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2020, 10, 451-466.	4.5	15
45	Adherence Affects Monocyte Innate Immune Function and Metabolic Reprogramming after Lipopolysaccharide Stimulation In Vitro. <i>Journal of Immunology</i> , 2021, 206, 827-838.	0.8	15
46	Polar metabolomics in human muscle biopsies using a liquid-liquid extraction and full-scan LC-MS. <i>STAR Protocols</i> , 2022, 3, 101302.	1.2	15
47	Characterization of metabolic alterations of chronic lymphocytic leukemia in the lymph node microenvironment. <i>Blood</i> , 2022, 140, 630-643.	1.4	14
48	Identification of Metabolic Biomarkers in Relation to Methotrexate Response in Early Rheumatoid Arthritis. <i>Journal of Personalized Medicine</i> , 2020, 10, 271.	2.5	13
49	The Platelet Lipidome Is Altered in Patients with COVID-19 and Correlates with Platelet Reactivity. <i>Thrombosis and Haemostasis</i> , 2022, 122, 1683-1692.	3.4	13
50	Sitting less elicits metabolic responses similar to exercise and enhances insulin sensitivity in postmenopausal women. <i>Diabetologia</i> , 2021, 64, 2817-2828.	6.3	12
51	Timeâ€restricted feeding during the inactive phase abolishes the daily rhythm in mitochondrial respiration in rat skeletal muscle. <i>FASEB Journal</i> , 2022, 36, e22133.	0.5	11
52	Food withdrawal lowers energy expenditure and induces inactivity in longâ€chain fatty acid oxidationâ€deficient mouse models. <i>FASEB Journal</i> , 2014, 28, 2891-2900.	0.5	10
53	Probing metabolic memory in the hepatic response to fasting. <i>Physiological Genomics</i> , 2020, 52, 602-617.	2.3	10
54	Identification and characterization of Eci3, a murine kidneyâ€specific $\hat{1}^{3}$ , $\hat{1}^{2}$ â€enoylâ€CoA isomerase. <i>FASEB Journal</i> , 2014, 28, 1365-1374.	0.5	9

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55	Human alveolar macrophages do not rely on glucose metabolism upon activation by lipopolysaccharide. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2022, 1868, 166488.	3.8	9
56	Circadian misalignment disturbs the skeletal muscle lipidome in healthy young men. <i>FASEB Journal</i> , 2021, 35, e21611.	0.5	8
57	Angiopoietin-like 4 governs diurnal lipoprotein lipase activity in brown adipose tissue. <i>Molecular Metabolism</i> , 2022, 60, 101497.	6.5	8
58	Effects of Light-at-Night on the Rat Liver – A Role for the Autonomic Nervous System. <i>Frontiers in Neuroscience</i> , 2019, 13, 647.	2.8	6
59	The influence of neuronal electrical activity on the mammalian central clock metabolome. <i>Metabolomics</i> , 2018, 14, 122.	3.0	5
60	Reduced ech-6 expression attenuates fat-induced lifespan shortening in <i>C. elegans</i> . <i>Scientific Reports</i> , 2022, 12, 3350.	3.3	4
61	Profiling of intracellular metabolites produced from galactose and its potential for galactosemia research. <i>Orphanet Journal of Rare Diseases</i> , 2018, 13, 146.	2.7	3
62	The Galactose Index measured in fibroblasts of GALT deficient patients distinguishes variant patients detected by newborn screening from patients with classical phenotypes. <i>Molecular Genetics and Metabolism</i> , 2020, 129, 171-176.	1.1	3
63	HIF-1 $\alpha$ Stabilization in Flagellin-Stimulated Human Bronchial Cells Impairs Barrier Function. <i>Cells</i> , 2022, 11, 391.	4.1	2
64	Gallstone Formation Follows a Different Trajectory in Bariatric Patients Compared to Nonbariatric Patients. <i>Metabolites</i> , 2021, 11, 682.	2.9	1
65	Dietary restriction in the long-chain acyl-CoA dehydrogenase knockout mouse. <i>Molecular Genetics and Metabolism Reports</i> , 2021, 27, 100749.	1.1	0
66	Targeting Metabolic Alterations in CLL Microenvironment; Inhibition of Glutamine Import Attenuates Venetoclax Resistance. <i>Blood</i> , 2021, 138, 3717-3717.	1.4	0