Ben van Ommen

List of Publications by Year
in descending order

106 papers	7,712 citations	57681 46 h-index	60403 85 g-index
106 all docs	106 docs citations	106 times ranked	12129 citing authors

#	Article	IF	Citations
1	An altered microbiota pattern precedes Type 2 diabetes mellitus development: From the CORDIOPREV study. Journal of Advanced Research, 2022, 35, 99-108.	4.4	22
2	Effects of a 13-Week Personalized Lifestyle Intervention Based on the Diabetes Subtype for People with Newly Diagnosed Type 2 Diabetes. Biomedicines, 2022, 10, 643.	1.4	3
3	A microbiotaâ€based predictive model for type 2 diabetes remission induced by dietary intervention: From the CORDIOPREV study. Clinical and Translational Medicine, 2021, 11, e326.	1.7	3
4	The Effect of a Lifestyle Intervention on Type 2 Diabetes Pathophysiology and Remission: The Stevenshof Pilot Study. Nutrients, 2021, 13, 2193.	1.7	7
5	Current and Future Nutritional Strategies to Modulate Inflammatory Dynamics in Metabolic Disorders. Frontiers in Nutrition, 2019, 6, 129.	1.6	37
6	Postprandial endotoxemia may influence the development of type 2 diabetes mellitus: From the CORDIOPREV study. Clinical Nutrition, 2019, 38, 529-538.	2.3	25
7	Associations of vitamin D status with dietary intakes and physical activity levels among adults from seven European countries: the Food4Me study. European Journal of Nutrition, 2018, 57, 1357-1368.	1.8	29
8	A plasma circulating miRNAs profile predicts type 2 diabetes mellitus and prediabetes: from the CORDIOPREV study. Experimental and Molecular Medicine, 2018, 50, 1-12.	3.2	80
9	Plasma metabolome analysis identifies distinct human metabotypes in the postprandial state with different susceptibility to weight lossâ€mediated metabolic improvements. FASEB Journal, 2018, 32, 5447-5458.	0.2	54
10	Effect of personalized nutrition on health-related behaviour change: evidence from the Food4me European randomized controlled trial. International Journal of Epidemiology, 2017, 46, dyw186.	0.9	219
11	Lifestyle recommendations for the prevention and management of metabolic syndrome: an international panel recommendation. Nutrition Reviews, 2017, 75, 307-326.	2.6	294
12	The impact of micronutrient status on health: correlation network analysis to understand the role of micronutrients in metabolic-inflammatory processes regulating homeostasis and phenotypic flexibility. Genes and Nutrition, 2017, 12, 5.	1.2	18
13	Systems biology of personalized nutrition. Nutrition Reviews, 2017, 75, 579-599.	2.6	62
14	Determinants of postprandial plasma bile acid kinetics in human volunteers. American Journal of Physiology - Renal Physiology, 2017, 313, G300-G312.	1.6	38
15	Mediterranean Diet Adherence and Genetic Background Roles within a Web-Based Nutritional Intervention: The Food4Me Study. Nutrients, 2017, 9, 1107.	1.7	25
16	Multi-parameter comparison of a standardized mixed meal tolerance test in healthy and type 2 diabetic subjects: the PhenFlex challenge. Genes and Nutrition, 2017, 12, 21.	1.2	59
17	Proposed guidelines to evaluate scientific validity and evidence for genotype-based dietary advice. Genes and Nutrition, 2017, 12, 35.	1.2	95
18	From Diabetes Care to Diabetes Cureâ€"The Integration of Systems Biology, eHealth, and Behavioral Change. Frontiers in Endocrinology, 2017, 8, 381.	1.5	55

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19	Weight loss predictability by plasma metabolic signatures in adults with obesity and morbid obesity of the <scp>D</scp>i<scp>O</scp><scp>G</scp>enes study. Obesity, 2016, 24, 379-388.	1.5	27
20	A dysregulation of glucose metabolism control is associated with carotid atherosclerosis in patients with coronary heart disease (CORDIOPREV-DIAB study). Atherosclerosis, 2016, 253, 178-185.	0.4	14
21	Metabolomic biomarkers for personalised glucose lowering drugs treatment in type 2 diabetes. Metabolomics, 2016, 12, 27.	1.4	30
22	The insulin resistance phenotype (muscle or liver) interacts with the type of diet to determine changes in disposition index after 2Âyears of intervention: the CORDIOPREV-DIAB randomised clinical trial. Diabetologia, 2016, 59, 67-76.	2.9	66
23	Phenotypic flexibility as a measure of health: the optimal nutritional stress response test. Genes and Nutrition, 2015, 10, 13.	1.2	98
24	White adipose tissue reference network: a knowledge resource for exploring health-relevant relations. Genes and Nutrition, 2015, 10, 439.	1.2	9
25	Inflammation and Nutritional Science for Programs/Policies and Interpretation of Research Evidence (INSPIRE). Journal of Nutrition, 2015, 145, 1039S-1108S.	1.3	170
26	Quantifying phenotypic flexibility as the response to a highâ€fat challenge test in different states of metabolic health. FASEB Journal, 2015, 29, 4600-4613.	0.2	71
27	Analyzing metabolomics-based challenge tests. Metabolomics, 2015, 11, 50-63.	1.4	17
28	Network signatures link hepatic effects of anti-diabetic interventions with systemic disease parameters. BMC Systems Biology, 2014, 8, 108.	3.0	5
29	Consensus statement understanding health and malnutrition through a systems approach: the ENOUGH program for early life. Genes and Nutrition, 2014, 9, 378.	1.2	26
30	Exploring the benefits and challenges of establishing a DRI-like process for bioactives. European Journal of Nutrition, 2014, 53 Suppl 1, 1-9.	1.8	43
31	Combating inflammaging through a Mediterranean whole diet approach: The NU-AGE project's conceptual framework and design. Mechanisms of Ageing and Development, 2014, 136-137, 3-13.	2.2	131
32	The role of low-grade inflammation and metabolic flexibility in aging and nutritional modulation thereof: A systems biology approach. Mechanisms of Ageing and Development, 2014, 136-137, 138-147.	2.2	80
33	Phenotypic flexibility as key factor in the human nutrition and health relationship. Genes and Nutrition, 2014, 9, 423.	1.2	101
34	A systems biology approach to understand the pathophysiological mechanisms of cardiac pathological hypertrophy associated with rosiglitazone. BMC Medical Genomics, 2014, 7, 35.	0.7	18
35	Predicting individual responses to pravastatin using a physiologically based kinetic model for plasma cholesterol concentrations. Journal of Pharmacokinetics and Pharmacodynamics, 2014, 41, 351-362.	0.8	9
36	Lipoprotein Metabolism Indicators Improve Cardiovascular Risk Prediction. PLoS ONE, 2014, 9, e92840.	1.1	15

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37	The nutrition researcher cohort: toward a new generation of nutrition research and health optimization. Genes and Nutrition, 2013, 8, 343-344.	1.2	9
38	EURRECAâ€"Principles and Future for Deriving Micronutrient Recommendations. Critical Reviews in Food Science and Nutrition, 2013, 53, 1135-1146.	5.4	15
39	Looking back into the future: 30 years of metabolomics at TNO. Mass Spectrometry Reviews, 2013, 32, 399-415.	2.8	49
40	Assessment of inflammatory resilience in healthy subjects using dietary lipid and glucose challenges. BMC Medical Genomics, 2013, 6, 44.	0.7	45
41	Differential Effects of Drug Interventions and Dietary Lifestyle in Developing Type 2 Diabetes and Complications: A Systems Biology Analysis in LDLrâ^'/â^' Mice. PLoS ONE, 2013, 8, e56122.	1.1	18
42	The Onset of Type 2 Diabetes: Proposal for a Multi-Scale Model. JMIR Research Protocols, 2013, 2, e44.	0.5	13
43	Lipoprotein metabolism indicators improve cardiovascular risk prediction. FASEB Journal, 2013, 27, 874.19.	0.2	0
44	A physiologically based in silico kinetic model predicting plasma cholesterol concentrations in humans. Journal of Lipid Research, 2012, 53, 2734-2746.	2.0	31
45	Systems biology analysis unravels the complementary action of combined rosuvastatin and ezetimibe therapy. Pharmacogenetics and Genomics, 2012, 22, 837-845.	0.7	17
46	Identification of prognostic and diagnostic biomarkers of glucose intolerance in ApoE3Leiden mice. Physiological Genomics, 2012, 44, 293-304.	1.0	18
47	Clustering by Plasma Lipoprotein Profile Reveals Two Distinct Subgroups with Positive Lipid Response to Fenofibrate Therapy. PLoS ONE, 2012, 7, e38072.	1.1	30
48	Visualization and identification of health space, based on personalized molecular phenotype and treatment response to relevant underlying biological processes. BMC Medical Genomics, 2012, 5, 1.	0.7	63
49	Semi-targeted metabolomic approaches to validate potential markers of health for micronutrients: analytical perspectives. Metabolomics, 2012, 8, 1114-1129.	1.4	7
50	Plasma metabolomics and proteomics profiling after a postprandial challenge reveal subtle diet effects on human metabolic status. Metabolomics, 2012, 8, 347-359.	1.4	119
51	A Dietary Mixture Containing Fish Oil, Resveratrol, Lycopene, Catechins, and Vitamins E and C Reduces Atherosclerosis in Transgenic Mice1â€"3. Journal of Nutrition, 2011, 141, 863-869.	1.3	35
52	A physiologically-based kinetic model for the prediction of plasma cholesterol concentrations in the mouse. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2011, 1811, 333-342.	1.2	7
53	26th Hohenheim Consensus Conference, September 11, 2010 Scientific substantiation of health claims: Evidence-based nutrition. Nutrition, 2011, 27, S1-S20.	1.1	61
54	Diagnostic markers based on a computational model of lipoprotein metabolism. Journal of Clinical Bioinformatics, 2011, 1, 29.	1.2	10

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55	Metabolomics of prolonged fasting in humans reveals new catabolic markers. Metabolomics, 2011, 7, 375-387.	1.4	59
56	A Systems Biology Strategy for Predicting Similarities and Differences of Drug Effects: Evidence for Drug-specific Modulation of Inflammation in Atherosclerosis. BMC Systems Biology, 2011, 5, 125.	3.0	16
57	Discovery of subtle effects in a human intervention trial through multilevel modeling. Chemometrics and Intelligent Laboratory Systems, 2011, 106, 108-114.	1.8	6
58	Transcriptomic Coordination in the Human Metabolic Network Reveals Links between n-3 Fat Intake, Adipose Tissue Gene Expression and Metabolic Health. PLoS Computational Biology, 2011, 7, e1002223.	1.5	36
59	Challenges of molecular nutrition research 6: the nutritional phenotype database to store, share and evaluate nutritional systems biology studies. Genes and Nutrition, 2010, 5, 189-203.	1.2	64
60	Connecting the Human Variome Project to nutrigenomics. Genes and Nutrition, 2010, 5, 275-283.	1.2	6
61	The Micronutrient Genomics Project: a community-driven knowledge base for micronutrient research. Genes and Nutrition, 2010, 5, 285-296.	1.2	47
62	Insight in modulation of inflammation in response to diclofenac intervention: a human intervention study. BMC Medical Genomics, 2010, 3, 5.	0.7	34
63	Time-Resolved and Tissue-Specific Systems Analysis of the Pathogenesis of Insulin Resistance. PLoS ONE, 2010, 5, e8817.	1.1	126
64	An antiinflammatory dietary mix modulates inflammation and oxidative and metabolic stress in overweight men: a nutrigenomics approach. American Journal of Clinical Nutrition, 2010, 91, 1044-1059.	2.2	225
65	Systematic construction of a conceptual minimal model of plasma cholesterol levels based on knockout mouse phenotypes. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2010, 1801, 646-654.	1.2	11
66	Developing computational model-based diagnostics to analyse clinical chemistry data. Briefings in Bioinformatics, 2010, 11, 403-416.	3.2	6
67	Genome-Wide mRNA Expression Analysis of Hepatic Adaptation to High-Fat Diets Reveals Switch from an Inflammatory to Steatotic Transcriptional Program. PLoS ONE, 2009, 4, e6646.	1.1	52
68	Improved cholesterol phenotype analysis by a model relating lipoprotein life cycle processes to particle size. Journal of Lipid Research, 2009, 50, 2398-2411.	2.0	21
69	Nutritional Systems Biology Modeling: From Molecular Mechanisms to Physiology. PLoS Computational Biology, 2009, 5, e1000554.	1.5	76
70	Improving the analysis of designed studies by combining statistical modelling with study design information. BMC Bioinformatics, 2009, 10, 52.	1.2	31
71	Filling gaps in PPAR-alpha signaling through comparative nutrigenomics analysis. BMC Genomics, 2009, 10, 596.	1.2	11
72	Challenging homeostasis to define biomarkers for nutrition related health. Molecular Nutrition and Food Research, 2009, 53, 795-804.	1.5	144

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73	Mass-spectrometry-based metabolomics: limitations and recommendations for future progress with particular focus on nutrition research. Metabolomics, 2009, 5, 435-458.	1.4	462
74	Effect of body fat distribution on the transcription response to dietary fat interventions. Genes and Nutrition, 2009, 4, 143-149.	1.2	12
75	Owner controlled data exchange in nutrigenomic collaborations: the NuGO information network. Genes and Nutrition, 2009, 4, 113-122.	1.2	5
76	Metabolic Profiling of the Response to an Oral Glucose Tolerance Test Detects Subtle Metabolic Changes. PLoS ONE, 2009, 4, e4525.	1.1	105
77	The challenges for molecular nutrition research 2: quantification of the nutritional phenotype. Genes and Nutrition, 2008, 3, 51-59.	1.2	53
78	The challenges for molecular nutrition research 1: linking genotype to healthy nutrition. Genes and Nutrition, 2008, 3, 41-49.	1.2	43
79	The challenges for molecular nutrition research 3: comparative nutrigenomics research as a basis for entering the systems level. Genes and Nutrition, 2008, 3, 101-106.	1.2	20
80	The challenges for molecular nutrition research 4: the â€œnutritional systems biology levelâ€• Genes and Nutrition, 2008, 3, 107-113.	1.2	21
81	Short-term fatty acid intervention elicits differential gene expression responses in adipose tissue from lean and overweight men. Genes and Nutrition, 2008, 3, 127-137.	1.2	15
82	The NuGO proof of principle study package: a collaborative research effort of the European Nutrigenomics Organisation. Genes and Nutrition, 2008, 3, 147-151.	1.2	22
83	How we will produce the evidence-based EURRECA toolkit to support nutrition and food policy. European Journal of Nutrition, 2008, 47, 2-16.	1.8	55
84	Transcriptome analysis provides new insights into liver changes induced in the rat upon dietary administration of the food additives butylated hydroxytoluene, curcumin, propyl gallate and thiabendazole. Food and Chemical Toxicology, 2008, 46, 2616-2628.	1.8	18
85	A network biology model of micronutrient related health. British Journal of Nutrition, 2008, 99, S72-S80.	1.2	55
86	Personalised nutrition: status and perspectives. British Journal of Nutrition, 2007, 98, 26-31.	1.2	72
87	Atherosclerosis and liver inflammation induced by increased dietary cholesterol intake: a combined transcriptomics and metabolomics analysis. Genome Biology, 2007, 8, R200.	13.9	210
88	The Metabolomics Standards Initiative. Nature Biotechnology, 2007, 25, 846-848.	9.4	328
89	The metabolomics standards initiative (MSI). Metabolomics, 2007, 3, 175-178.	1.4	396
90	Personalized nutrition from a health perspective: luxury or necessity?. Genes and Nutrition, 2007, 2, 3-4.	1.2	17

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91	Large-Scale Human Metabolomics Studies:â€‰ A Strategy for Data (Pre-) Processing and Validation. Analytical Chemistry, 2006, 78, 567-574.	3.2	744
92	Modulatory effects of quercetin on proliferation and differentiation of the human colorectal cell line Caco-2. Cancer Letters, 2006, 238, 248-259.	3.2	46
93	High-protein and high-carbohydrate breakfasts differentially change the transcriptome of human blood cells. American Journal of Clinical Nutrition, 2006, 84, 1233-1241.	2.2	82
94	Harnessing Nutrigenomics: Development of web-based communication, databases, resources, and tools. Genes and Nutrition, 2006, 1, 5-11.	1.2	19
95	Comparison of Coumarin-Induced Toxicity between Sandwich-Cultured Primary Rat Hepatocytes and Rats in Vivo: A Toxicogenomics Approach. Drug Metabolism and Disposition, 2006, 34, 2083-2090.	1.7	33
96	Establishing Reporting Standards for Metabolomic and Metabonomic Studies: A Call for Participation. OMICS A Journal of Integrative Biology, 2006, 10, 158-163.	1.0	100
97	Toxicogenomics concepts and applications to study hepatic effects of food additives and chemicals. Toxicology and Applied Pharmacology, 2005, 207, 179-188.	1.3	158
98	Toxicogenomic analysis of gene expression changes in rat liver after a 28-day oral benzene exposure. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2005, 575, 85-101.	0.4	32
99	Integrated assessment by multiple gene expression analysis of quercetin bioactivity on anticancerâ€“related mechanisms in colon cancer cells in vitro. European Journal of Nutrition, 2005, 44, 143-156.	1.8	121
100	Metabolomics in human nutrition: opportunities and challenges. American Journal of Clinical Nutrition, 2005, 82, 497-503.	2.2	329
101	The introduction of toxicogenomics; potential new markers of hepatotoxicity. Cancer Biomarkers, 2005, 1, 41-57.	0.8	11
102	Profiles of Metabolites and Gene Expression in Rats with Chemically Induced Hepatic Necrosis. Toxicologic Pathology, 2005, 33, 425-433.	0.9	83
103	The case for strategic international alliances to harness nutritional genomics for public and personal health. British Journal of Nutrition, 2005, 94, 623-632.	1.2	137
104	Nutrigenomics: The Impact of Biomics Technology on Nutrition Research. Annals of Nutrition and Metabolism, 2005, 49, 355-365.	1.0	98
105	Systems toxicology: applications of toxicogenomics, transcriptomics, proteomics and metabolomics in toxicology. Expert Review of Proteomics, 2005, 2, 767-780.	1.3	159
106	Bromobenzene-Induced Hepatotoxicity at the Transcriptome Level. Toxicological Sciences, 2004, 79, 411-422.	1.4	78