Kati Hanhineva

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

102 papers	3,366 citations	30 h-index	56 g-index
109 ext. papers	4,281 ext. citations	5.9 avg, IF	5.41 L-index

#	Paper	IF	Citations
102	Impact of dietary polyphenols on carbohydrate metabolism. *International Journal of Molecular Sciences*, **2010**, 11, 1365-402	6.3	701
101	Reconfiguration of the achene and receptacle metabolic networks during strawberry fruit development. *Plant Physiology*, **2008**, 148, 730-50	6.6	222
100	Non-targeted analysis of spatial metabolite composition in strawberry (Fragariaxananassa) flowers. *Phytochemistry*, **2008**, 69, 2463-81	4	167
99	Indolepropionic acid and novel lipid metabolites are associated with a lower risk of type 2 diabetes in the Finnish Diabetes Prevention Study. *Scientific Reports*, **2017**, 7, 46337	4.9	137
98	Nutrimetabolomics: An Integrative Action for Metabolomic Analyses in Human Nutritional Studies. *Molecular Nutrition and Food Research*, **2019**, 63, e1800384	5.9	107
97	Nontargeted metabolite profiling discriminates diet-specific biomarkers for consumption of whole grains, fatty fish, and bilberries in a randomized controlled trial. *Journal of Nutrition*, **2015**, 145, 7-17	4.1	103
96	Disintegration of wheat aleurone structure has an impact on the bioavailability of phenolic compounds and other phytochemicals as evidenced by altered urinary metabolite profile of diet-induced obese mice. *Nutrition and Metabolism*, **2014**, 11, 1	4.6	85
95	Benzoxaxinoids Are Inversely Associated With Prostate-Specific Antigen Levels- a Whole Grain Rye vs Refined Wheat Randomized Cross-Over Trial in Men With Prostate Cancer. *Current Developments in Nutrition*, **2021**, 5, 482-482	0.4	78
94	Associations of serum indolepropionic acid, a gut microbiota metabolite, with type 2 diabetes and low-grade inflammation in high-risk individuals. *Nutrition and Diabetes*, **2018**, 8, 35	4.7	75
93	Qualitative characterization of benzoxazinoid derivatives in whole grain rye and wheat by LC-MS metabolite profiling. *Journal of Agricultural and Food Chemistry*, **2011**, 59, 921-7	5.7	72
92	Metabolic profiling of Goji berry extracts for discrimination of geographical origin by non-targeted liquid chromatography coupled to quadrupole time-of-flight mass spectrometry. *Food Research International*, **2014**, 63, 132-138	7	69
91	Factors affecting intake, metabolism and health benefits of phenolic acids: do we understand individual variability?. *European Journal of Nutrition*, **2020**, 59, 1275-1293	5.2	68
90	UPLC-QTOF/MS metabolic profiling unveils urinary changes in humans after a whole grain rye versus refined wheat bread intervention. *Molecular Nutrition and Food Research*, **2013**, 57, 412-22	5.9	66
89	Metabolic signature of extracellular vesicles depends on the cell culture conditions. *Journal of Extracellular Vesicles*, **2019**, 8, 1596669	16.4	60
88	Stilbene synthase gene transfer caused alterations in the phenylpropanoid metabolism of transgenic strawberry (Fragaria x ananassa). *Journal of Experimental Botany*, **2009**, 60, 2093-106	7	50
87	Metabolic profiling of sourdough fermented wheat and rye bread. *Scientific Reports*, **2018**, 8, 5684	4.9	46
86	Betaine supplementation causes increase in carnitine metabolites in the muscle and liver of mice fed a high-fat diet as studied by nontargeted LC-MS metabolomics approach. *Molecular Nutrition and Food Research*, **2013**, 57, 1959-68	5.9	46

85	Random forest-based imputation outperforms other methods for imputing LC-MS metabolomics data: a comparative study. *BMC Bioinformatics*, **2019**, 20, 492	3.6	45
84	Nontargeted metabolite profiles and sensory properties of strawberry cultivars grown both organically and conventionally. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 1010-9	5.7	44
83	Effects of short- and long-term Mediterranean-based dietary treatment on plasma LC-QTOF/MS metabolic profiling of subjects with metabolic syndrome features: The Metabolic Syndrome Reduction in Navarra (RESMENA) randomized controlled trial. *Molecular Nutrition and Food Research*, **2015**, 59, 711-28	5.9	42
82	Plasma metabolites associated with type 2 diabetes in a Swedish population: a case-control study nested in a prospective cohort. *Diabetologia*, **2018**, 61, 849-861	10.3	39
81	Fasting serum hippuric acid is elevated after bilberry (Vaccinium myrtillus) consumption and associates with improvement of fasting glucose levels and insulin secretion in persons at high risk of developing type 2 diabetes. *Molecular Nutrition and Food Research*, **2017**, 61, 1700019	5.9	36
80	The postprandial plasma rye fingerprint includes benzoxazinoid-derived phenylacetamide sulfates. *Journal of Nutrition*, **2014**, 144, 1016-22	4.1	34
79	Metabolomics reveals the metabolic shifts following an intervention with rye bread in postmenopausal women--a randomized control trial. *Nutrition Journal*, **2012**, 11, 88	4.3	34
78	Rye and health - Where do we stand and where do we go?. *Trends in Food Science and Technology*, **2018**, 79, 78-87	15.3	33
77	Discovery of urinary biomarkers of whole grain rye intake in free-living subjects using nontargeted LC-MS metabolite profiling. *Molecular Nutrition and Food Research*, **2015**, 59, 2315-25	5.9	33
76	Identification of novel lignans in the whole grain rye bran by non-targeted LCMS metabolite profiling. *Metabolomics*, **2012**, 8, 399-409	4.7	33
75	NMR and UPLC-qTOF-MS/MS characterisation of novel phenylethanol derivatives of phenylpropanoid glucosides from the leaves of strawberry (Fragaria x ananassa cv. Jonsok). *Phytochemical Analysis*, **2009**, 20, 353-64	3.4	33
74	Contribution of gut microbiota to metabolism of dietary glycine betaine in mice and in vitro colonic fermentation. *Microbiome*, **2019**, 7, 103	16.6	32
73	Mass spectrometry-based analysis of whole-grain phytochemicals. *Critical Reviews in Food Science and Nutrition*, **2017**, 57, 1688-1709	11.5	30
72	Effect of Bioprocessing on the In Vitro Colonic Microbial Metabolism of Phenolic Acids from Rye Bran Fortified Breads. *Journal of Agricultural and Food Chemistry*, **2017**, 65, 1854-1864	5.7	29
71	"notame": Workflow for Non-Targeted LC-MS Metabolic Profiling. *Metabolites*, **2020**, 10,	5.6	29
70	Comparative nontargeted profiling of metabolic changes in tissues and biofluids in high-fat diet-fed Ossabaw pig. *Journal of Proteome Research*, **2013**, 12, 3980-92	5.6	27
69	Biomarkers of meat and seafood intake: an extensive literature review. *Genes and Nutrition*, **2019**, 14, 35	4.3	27
68	Diets rich in whole grains increase betainized compounds associated with glucose metabolism. *American Journal of Clinical Nutrition*, **2018**, 108, 971-979	7	26

67	Amino acid-derived betaines dominate as urinary markers for rye bran intake in mice fed high-fat diet--A nontargeted metabolomics study. *Molecular Nutrition and Food Research*, **2015**, 59, 1550-62	5.9	25
66	Changes in the phytochemical profile of rye bran induced by enzymatic bioprocessing and sourdough fermentation. *Food Research International*, **2016**, 89, 1106-1115	7	24
65	Reduction in cardiometabolic risk factors by a multifunctional diet is mediated via several branches of metabolism as evidenced by nontargeted metabolite profiling approach. *Molecular Nutrition and Food Research*, **2017**, 61, 1600552	5.9	21
64	The role of oxygen in the liquid fermentation of wheat bran. *Food Chemistry*, **2014**, 153, 424-31	8.5	21
63	Non-targeted metabolite profiling reveals changes in oxidative stress, tryptophan and lipid metabolisms in fearful dogs. *Behavioral and Brain Functions*, **2016**, 12, 7	4.1	21
62	Factors Explaining Interpersonal Variation in Plasma Enterolactone Concentrations in Humans. *Molecular Nutrition and Food Research*, **2019**, 63, e1801159	5.9	21
61	A MYB Triad Controls Primary and Phenylpropanoid Metabolites for Pollen Coat Patterning. *Plant Physiology*, **2019**, 180, 87-108	6.6	21
60	Heart specific PGC-1 deletion identifies metabolome of cardiac restricted metabolic heart failure. *Cardiovascular Research*, **2019**, 115, 107-118	9.9	20
59	CMPF does not associate with impaired glucose metabolism in individuals with features of metabolic syndrome. *PLoS ONE*, **2015**, 10, e0124379	3.7	20
58	Plasma metabolites associated with healthy Nordic dietary indexes and risk of type 2 diabetes-a nested case-control study in a Swedish population. *American Journal of Clinical Nutrition*, **2018**, 108, 564-575	7	19
57	Biomarkers of cereal food intake. *Genes and Nutrition*, **2019**, 14, 28	4.3	19
56	Quantifying the human diet in the crosstalk between nutrition and health by multi-targeted metabolomics of food and microbiota-derived metabolites. *International Journal of Obesity*, **2020**, 44, 2372-2381	5.5	18
55	Non-targeted metabolite profiling highlights the potential of strawberry leaves as a resource for specific bioactive compounds. *Journal of the Science of Food and Agriculture*, **2017**, 97, 2182-2190	4.3	18
54	High-Fat Diet, Betaine, and Polydextrose Induce Changes in Adipose Tissue Inflammation and Metabolism in C57BL/6J Mice. *Molecular Nutrition and Food Research*, **2018**, 62, e1800455	5.9	18
53	Whole grain intake associated molecule 5-aminovaleric acid betaine decreases oxidation of fatty acids in mouse cardiomyocytes. *Scientific Reports*, **2018**, 8, 13036	4.9	18
52	Interlaboratory Coverage Test on Plant Food Bioactive Compounds and their Metabolites by Mass Spectrometry-Based Untargeted Metabolomics. *Metabolites*, **2018**, 8,	5.6	17
51	A non-targeted metabolite profiling pilot study suggests that tryptophan and lipid metabolisms are linked with ADHD-like behaviours in dogs. *Behavioral and Brain Functions*, **2016**, 12, 27	4.1	17
50	In vitro microbiotic fermentation causes an extensive metabolite turnover of rye bran phytochemicals. *PLoS ONE*, **2012**, 7, e39322	3.7	14

49	Impact of location on composition of selected phytochemicals in wild sea buckthorn (Hippophae rhamnoides). *Journal of Food Composition and Analysis*, **2018**, 72, 115-121	4.1	14
48	Microbial and endogenous metabolic conversions of rye phytochemicals. *Molecular Nutrition and Food Research*, **2017**, 61, 1600627	5.9	13
47	A Non-Targeted LC-MS Profiling Reveals Elevated Levels of Carnitine Precursors and Trimethylated Compounds in the Cord Plasma of Pre-Eclamptic Infants. *Scientific Reports*, **2018**, 8, 14616	4.9	13
46	Liver DNA methylation of FADS2 associates with FADS2 genotype. *Clinical Epigenetics*, **2019**, 11, 10	7.7	12
45	Impact of wheat aleurone structure on metabolic disorders caused by a high-fat diet in mice. *Journal of Agricultural and Food Chemistry*, **2014**, 62, 10101-9	5.7	12
44	Decreased plasma serotonin and other metabolite changes in healthy adults after consumption of wholegrain rye: an untargeted metabolomics study. *American Journal of Clinical Nutrition*, **2019**, 109, 1630-1639	7	11
43	Glycosylated Benzoxazinoids Are Degraded during Fermentation of Wheat Bran. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 5943-9	5.7	11
42	Plasma metabolites associated with exposure to perfluoroalkyl substances and risk of type 2 diabetes - A nested case-control study. *Environment International*, **2021**, 146, 106180	12.9	11
41	Metabolic Profiling of High Egg Consumption and the Associated Lower Risk of Type 2 Diabetes in Middle-Aged Finnish Men. *Molecular Nutrition and Food Research*, **2019**, 63, e1800605	5.9	11
40	Quantitative assessment of betainized compounds and associations with dietary and metabolic biomarkers in the randomized study of the healthy Nordic diet (SYSDIET). *American Journal of Clinical Nutrition*, **2019**, 110, 1108-1118	7	10
39	Metabolic profiling discriminates between strawberry (Fragaria×ananassa Duch.) cultivars grown in Finland or Estonia. *Food Research International*, **2016**, 89, 647-653	7	10
38	Fearful dogs have increased plasma glutamine and γ-glutamyl glutamine. *Scientific Reports*, **2018**, 8, 15976	4.9	10
37	Defining the Scope of Exposome Studies and Research Needs from a Multidisciplinary Perspective. *Environmental Science and Technology Letters*, **2021**, 8, 839-852	11	10
36	Joint Analysis of Metabolite Markers of Fish Intake and Persistent Organic Pollutants in Relation to Type 2 Diabetes Risk in Swedish Adults. *Journal of Nutrition*, **2019**, 149, 1413-1423	4.1	8
35	Serum aromatic and branched-chain amino acids associated with NASH demonstrate divergent associations with serum lipids. *Liver International*, **2021**, 41, 754-763	7.9	8
34	A non-targeted LC-MS metabolic profiling of pregnancy: longitudinal evidence from healthy and pre-eclamptic pregnancies. *Metabolomics*, **2021**, 17, 20	4.7	8
33	Metabolome of canine and human saliva: a non-targeted metabolomics study. *Metabolomics*, **2020**, 16, 90	4.7	7
32	Positive Effects of Exercise Intervention without Weight Loss and Dietary Changes in NAFLD-Related Clinical Parameters: A Systematic Review and Meta-Analysis. *Nutrients*, **2021**, 13,	6.7	7

31	Indole-3-Propionic Acid, a Gut-Derived Tryptophan Metabolite, Associates with Hepatic Fibrosis. *Nutrients*, **2021**, 13,	6.7	6
30	Biomarkers of a Healthy Nordic Diet-From Dietary Exposure Biomarkers to Microbiota Signatures in the Metabolome. *Nutrients*, **2019**, 12,	6.7	6
29	Plasma lipid profile associates with the improvement of psychological well-being in individuals with perceived stress symptoms. *Scientific Reports*, **2020**, 10, 2143	4.9	5
28	Specific gut microbial, biological, and psychiatric profiling related to binge eating disorders: A cross-sectional study in obese patients. *Clinical Nutrition*, **2021**, 40, 2035-2044	5.9	5
27	Side-stream products of malting: a neglected source of phytochemicals. *Npj Science of Food*, **2020**, 4, 21	6.3	4
26	Maternal microbiota-derived metabolic profile in fetal murine intestine, brain and placenta.. *BMC Microbiology*, **2022**, 22, 46	4.5	4
25	Effects of exercise on NAFLD using non-targeted metabolomics in adipose tissue, plasma, urine, and stool.. *Scientific Reports*, **2022**, 12, 6485	4.9	4
24	Metabolomics Applications in Herbal Medicine **2017**, 165-178		3
23	Total liver phosphatidylcholine content associates with non-alcoholic steatohepatitis and glycine N-methyltransferase expression. *Liver International*, **2019**, 39, 1895-1905	7.9	3
22	Profiling of Endogenous and Gut Microbial Metabolites to Indicate Metabotype-Specific Dietary Responses: A Systematic Review. *Advances in Nutrition*, **2020**, 11, 1237-1254	10	3
21	Novel Biomarker Candidates for Febrile Neutropenia in Hematological Patients Using Nontargeted Metabolomics. *Disease Markers*, **2018**, 2018, 6964529	3.2	3
20	Mastication-induced release of compounds from rye and wheat breads to saliva. *Food Chemistry*, **2019**, 270, 502-508	8.5	3
19	Associations of the serum metabolite profile with a healthy Nordic diet and risk of coronary artery disease. *Clinical Nutrition*, **2021**, 40, 3250-3262	5.9	3
18	Metabolomics analysis of plasma and adipose tissue samples from mice orally administered with polydextrose and correlations with cecal microbiota. *Scientific Reports*, **2020**, 10, 21577	4.9	2
17	Application of Metabolomics to Assess Effects of Controlled Dietary Interventions. *Current Nutrition Reports*, **2015**, 4, 365-376	6	2
16	Cancer Alters the Metabolic Fingerprint of Extracellular Vesicles. *Cancers*, **2020**, 12,	6.6	2
15	Putative metabolites involved in the beneficial effects of wholegrain cereal: Nontargeted metabolite profiling approach. *Nutrition, Metabolism and Cardiovascular Diseases*, **2021**, 31, 1156-1165	4.5	2
14	Metabolomic signature of the maternal microbiota in the fetus		1

13	Metabolomics in Fruit Development **2010**, 675-693		1
12	Changes in the metabolic profile of human male postmortem frontal cortex and cerebrospinal fluid samples associated with heavy alcohol use. *Addiction Biology*, **2021**, 26, e13035	4.6	1
11	Data sharing in PredRet for accurate prediction of retention time: Application to plant food bioactive compounds. *Food Chemistry*, **2021**, 357, 129757	8.5	1
10	Low-Dose Doxycycline Treatment Normalizes Levels of Some Salivary Metabolites Associated with Oral Microbiota in Patients with Primary Sjögren's Syndrome. *Metabolites*, **2021**, 11,	5.6	1
9	Microbiota and Metabolite Profiling as Markers of Mood Disorders: A Cross-Sectional Study in Obese Patients.. *Nutrients*, **2021**, 14,	6.7	1
8	LongITools: Dynamic longitudinal exposome trajectories in cardiovascular and metabolic noncommunicable diseases.. *Environmental Epidemiology*, **2022**, 6, e184	0.2	1
7	FADS1 rs174550 genotype and high linoleic acid diet modify plasma PUFA phospholipids in a dietary intervention study. *European Journal of Nutrition*, **2021**, 1	5.2	0
6	Inconsistent nomenclature of microbiota-associated metabolites hampers progress of the field.. *Nature Metabolism*, **2022**,	14.6	0
5	Metabolomics in Assessment of Nutritional Status **2017**, 139-152		
4	Application of Metabolomics for the Assessment of Health Effects of Whole grain Foods **2021**, 375-388		
3	Terpenoid and lipid profiles vary in different Phytophthora cactorum - strawberry interactions. *Phytochemistry*, **2021**, 189, 112820	4	
2	An inverse association between plasma benzoxazinoid metabolites and PSA after rye intake in men with prostate cancer revealed with a new method.. *Scientific Reports*, **2022**, 12, 5260	4.9	
1	No association in maternal serum levels of TMAO and its precursors in pre-eclampsia and in non-complicated pregnancies.. *Pregnancy Hypertension*, **2022**, 28, 74-80	2.6	