

Kati Hanhineva

List of Publications by Year in Descending Order

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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	Maternal microbiota-derived metabolic profile in fetal murine intestine, brain and placenta.. <i>BMC Microbiology</i> , 2022 , 22, 46	4.5	4
101	An inverse association between plasma benzoxazinoid metabolites and PSA after rye intake in men with prostate cancer revealed with a new method.. <i>Scientific Reports</i> , 2022 , 12, 5260	4.9	
100	Inconsistent nomenclature of microbiota-associated metabolites hampers progress of the field.. <i>Nature Metabolism</i> , 2022 ,	14.6	0
99	No association in maternal serum levels of TMAO and its precursors in pre-eclampsia and in non-complicated pregnancies.. <i>Pregnancy Hypertension</i> , 2022 , 28, 74-80	2.6	
98	LongITools: Dynamic longitudinal exposome trajectories in cardiovascular and metabolic noncommunicable diseases.. <i>Environmental Epidemiology</i> , 2022 , 6, e184	0.2	1
97	Effects of exercise on NAFLD using non-targeted metabolomics in adipose tissue, plasma, urine, and stool.. <i>Scientific Reports</i> , 2022 , 12, 6485	4.9	4
96	Indole-3-Propionic Acid, a Gut-Derived Tryptophan Metabolite, Associates with Hepatic Fibrosis. <i>Nutrients</i> , 2021 , 13,	6.7	6
95	FADS1 rs174550 genotype and high linoleic acid diet modify plasma PUFA phospholipids in a dietary intervention study. <i>European Journal of Nutrition</i> , 2021 , 1	5.2	0
94	Changes in the metabolic profile of human male postmortem frontal cortex and cerebrospinal fluid samples associated with heavy alcohol use. <i>Addiction Biology</i> , 2021 , 26, e13035	4.6	1
93	Putative metabolites involved in the beneficial effects of wholegrain cereal: Nontargeted metabolite profiling approach. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2021 , 31, 1156-1165	4.5	2
92	Specific gut microbial, biological, and psychiatric profiling related to binge eating disorders: A cross-sectional study in obese patients. <i>Clinical Nutrition</i> , 2021 , 40, 2035-2044	5.9	5
91	Application of Metabolomics for the Assessment of Health Effects of Whole grain Foods 2021 , 375-388		
90	Benzoxazinoids Are Inversely Associated With Prostate-Specific Antigen Levels- a Whole Grain Rye vs Refined Wheat Randomized Cross-Over Trial in Men With Prostate Cancer. <i>Current Developments in Nutrition</i> , 2021 , 5, 482-482	0.4	78
89	Associations of the serum metabolite profile with a healthy Nordic diet and risk of coronary artery disease. <i>Clinical Nutrition</i> , 2021 , 40, 3250-3262	5.9	3
88	Serum aromatic and branched-chain amino acids associated with NASH demonstrate divergent associations with serum lipids. <i>Liver International</i> , 2021 , 41, 754-763	7.9	8
87	Plasma metabolites associated with exposure to perfluoroalkyl substances and risk of type 2 diabetes - A nested case-control study. <i>Environment International</i> , 2021 , 146, 106180	12.9	11
86	A non-targeted LC-MS metabolic profiling of pregnancy: longitudinal evidence from healthy and pre-eclamptic pregnancies. <i>Metabolomics</i> , 2021 , 17, 20	4.7	8

85	Defining the Scope of Exposome Studies and Research Needs from a Multidisciplinary Perspective. <i>Environmental Science and Technology Letters</i> , 2021 , 8, 839-852	11	10
84	Positive Effects of Exercise Intervention without Weight Loss and Dietary Changes in NAFLD-Related Clinical Parameters: A Systematic Review and Meta-Analysis. <i>Nutrients</i> , 2021 , 13,	6.7	7
83	Data sharing in PredRet for accurate prediction of retention time: Application to plant food bioactive compounds. <i>Food Chemistry</i> , 2021 , 357, 129757	8.5	1
82	Terpenoid and lipid profiles vary in different <i>Phytophthora cactorum</i> - strawberry interactions. <i>Phytochemistry</i> , 2021 , 189, 112820	4	
81	Low-Dose Doxycycline Treatment Normalizes Levels of Some Salivary Metabolites Associated with Oral Microbiota in Patients with Primary Sjögren's Syndrome. <i>Metabolites</i> , 2021 , 11,	5.6	1
80	Microbiota and Metabolite Profiling as Markers of Mood Disorders: A Cross-Sectional Study in Obese Patients.. <i>Nutrients</i> , 2021 , 14,	6.7	1
79	Side-stream products of malting: a neglected source of phytochemicals. <i>Npj Science of Food</i> , 2020 , 4, 21	6.3	4
78	Metabolomics analysis of plasma and adipose tissue samples from mice orally administered with polydextrose and correlations with cecal microbiota. <i>Scientific Reports</i> , 2020 , 10, 21577	4.9	2
77	Quantifying the human diet in the crosstalk between nutrition and health by multi-targeted metabolomics of food and microbiota-derived metabolites. <i>International Journal of Obesity</i> , 2020 , 44, 2372-2381	5.5	18
76	Plasma lipid profile associates with the improvement of psychological well-being in individuals with perceived stress symptoms. <i>Scientific Reports</i> , 2020 , 10, 2143	4.9	5
75	Profiling of Endogenous and Gut Microbial Metabolites to Indicate Metabotype-Specific Dietary Responses: A Systematic Review. <i>Advances in Nutrition</i> , 2020 , 11, 1237-1254	10	3
74	Cancer Alters the Metabolic Fingerprint of Extracellular Vesicles. <i>Cancers</i> , 2020 , 12,	6.6	2
73	Metabolome of canine and human saliva: a non-targeted metabolomics study. <i>Metabolomics</i> , 2020 , 16, 90	4.7	7
72	Factors affecting intake, metabolism and health benefits of phenolic acids: do we understand individual variability?. <i>European Journal of Nutrition</i> , 2020 , 59, 1275-1293	5.2	68
71	"notame": Workflow for Non-Targeted LC-MS Metabolic Profiling. <i>Metabolites</i> , 2020 , 10,	5.6	29
70	Quantitative assessment of betainized compounds and associations with dietary and metabolic biomarkers in the randomized study of the healthy Nordic diet (SYSDIET). <i>American Journal of Clinical Nutrition</i> , 2019 , 110, 1108-1118	7	10
69	Liver DNA methylation of FADS2 associates with FADS2 genotype. <i>Clinical Epigenetics</i> , 2019 , 11, 10	7.7	12
68	Total liver phosphatidylcholine content associates with non-alcoholic steatohepatitis and glycine N-methyltransferase expression. <i>Liver International</i> , 2019 , 39, 1895-1905	7.9	3

67	Joint Analysis of Metabolite Markers of Fish Intake and Persistent Organic Pollutants in Relation to Type 2 Diabetes Risk in Swedish Adults. <i>Journal of Nutrition</i> , 2019 , 149, 1413-1423	4.1	8
66	Decreased plasma serotonin and other metabolite changes in healthy adults after consumption of wholegrain rye: an untargeted metabolomics study. <i>American Journal of Clinical Nutrition</i> , 2019 , 109, 1630-1639	7	11
65	Metabolic signature of extracellular vesicles depends on the cell culture conditions. <i>Journal of Extracellular Vesicles</i> , 2019 , 8, 1596669	16.4	60
64	Heart specific PGC-1 β deletion identifies metabolome of cardiac restricted metabolic heart failure. <i>Cardiovascular Research</i> , 2019 , 115, 107-118	9.9	20
63	Mastication-induced release of compounds from rye and wheat breads to saliva. <i>Food Chemistry</i> , 2019 , 270, 502-508	8.5	3
62	Contribution of gut microbiota to metabolism of dietary glycine betaine in mice and in vitro colonic fermentation. <i>Microbiome</i> , 2019 , 7, 103	16.6	32
61	Random forest-based imputation outperforms other methods for imputing LC-MS metabolomics data: a comparative study. <i>BMC Bioinformatics</i> , 2019 , 20, 492	3.6	45
60	Biomarkers of cereal food intake. <i>Genes and Nutrition</i> , 2019 , 14, 28	4.3	19
59	Biomarkers of a Healthy Nordic Diet-From Dietary Exposure Biomarkers to Microbiota Signatures in the Metabolome. <i>Nutrients</i> , 2019 , 12,	6.7	6
58	Factors Explaining Interpersonal Variation in Plasma Enterolactone Concentrations in Humans. <i>Molecular Nutrition and Food Research</i> , 2019 , 63, e1801159	5.9	21
57	A MYB Triad Controls Primary and Phenylpropanoid Metabolites for Pollen Coat Patterning. <i>Plant Physiology</i> , 2019 , 180, 87-108	6.6	21
56	Biomarkers of meat and seafood intake: an extensive literature review. <i>Genes and Nutrition</i> , 2019 , 14, 35	4.3	27
55	Nutrimetabolomics: An Integrative Action for Metabolomic Analyses in Human Nutritional Studies. <i>Molecular Nutrition and Food Research</i> , 2019 , 63, e1800384	5.9	107
54	Metabolic Profiling of High Egg Consumption and the Associated Lower Risk of Type 2 Diabetes in Middle-Aged Finnish Men. <i>Molecular Nutrition and Food Research</i> , 2019 , 63, e1800605	5.9	11
53	Metabolic profiling of sourdough fermented wheat and rye bread. <i>Scientific Reports</i> , 2018 , 8, 5684	4.9	46
52	Plasma metabolites associated with type 2 diabetes in a Swedish population: a case-control study nested in a prospective cohort. <i>Diabetologia</i> , 2018 , 61, 849-861	10.3	39
51	Novel Biomarker Candidates for Febrile Neutropenia in Hematological Patients Using Nontargeted Metabolomics. <i>Disease Markers</i> , 2018 , 2018, 6964529	3.2	3
50	Plasma metabolites associated with healthy Nordic dietary indexes and risk of type 2 diabetes-a nested case-control study in a Swedish population. <i>American Journal of Clinical Nutrition</i> , 2018 , 108, 564-575	7.5	19

49	Rye and health - Where do we stand and where do we go?. <i>Trends in Food Science and Technology</i> , 2018 , 79, 78-87	15.3	33
48	Interlaboratory Coverage Test on Plant Food Bioactive Compounds and their Metabolites by Mass Spectrometry-Based Untargeted Metabolomics. <i>Metabolites</i> , 2018 , 8,	5.6	17
47	High-Fat Diet, Betaine, and Polydextrose Induce Changes in Adipose Tissue Inflammation and Metabolism in C57BL/6J Mice. <i>Molecular Nutrition and Food Research</i> , 2018 , 62, e1800455	5.9	18
46	Diets rich in whole grains increase betainized compounds associated with glucose metabolism. <i>American Journal of Clinical Nutrition</i> , 2018 , 108, 971-979	7	26
45	A Non-Targeted LC-MS Profiling Reveals Elevated Levels of Carnitine Precursors and Trimethylated Compounds in the Cord Plasma of Pre-Eclamptic Infants. <i>Scientific Reports</i> , 2018 , 8, 14616	4.9	13
44	Fearful dogs have increased plasma glutamine and γ -glutamyl glutamine. <i>Scientific Reports</i> , 2018 , 8, 15976	4.9	10
43	Whole grain intake associated molecule 5-aminovaleric acid betaine decreases β -oxidation of fatty acids in mouse cardiomyocytes. <i>Scientific Reports</i> , 2018 , 8, 13036	4.9	18
42	Associations of serum indolepropionic acid, a gut microbiota metabolite, with type 2 diabetes and low-grade inflammation in high-risk individuals. <i>Nutrition and Diabetes</i> , 2018 , 8, 35	4.7	75
41	Impact of location on composition of selected phytochemicals in wild sea buckthorn (<i>Hippophae rhamnoides</i>). <i>Journal of Food Composition and Analysis</i> , 2018 , 72, 115-121	4.1	14
40	Mass spectrometry-based analysis of whole-grain phytochemicals. <i>Critical Reviews in Food Science and Nutrition</i> , 2017 , 57, 1688-1709	11.5	30
39	Effect of Bioprocessing on the In Vitro Colonic Microbial Metabolism of Phenolic Acids from Rye Bran Fortified Breads. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 1854-1864	5.7	29
38	Indolepropionic acid and novel lipid metabolites are associated with a lower risk of type 2 diabetes in the Finnish Diabetes Prevention Study. <i>Scientific Reports</i> , 2017 , 7, 46337	4.9	137
37	Fasting serum hippuric acid is elevated after bilberry (<i>Vaccinium myrtillus</i>) consumption and associates with improvement of fasting glucose levels and insulin secretion in persons at high risk of developing type 2 diabetes. <i>Molecular Nutrition and Food Research</i> , 2017 , 61, 1700019	5.9	36
36	Metabolomics Applications in Herbal Medicine 2017 , 165-178		3
35	Microbial and endogenous metabolic conversions of rye phytochemicals. <i>Molecular Nutrition and Food Research</i> , 2017 , 61, 1600627	5.9	13
34	Metabolomics in Assessment of Nutritional Status 2017 , 139-152		
33	Reduction in cardiometabolic risk factors by a multifunctional diet is mediated via several branches of metabolism as evidenced by nontargeted metabolite profiling approach. <i>Molecular Nutrition and Food Research</i> , 2017 , 61, 1600552	5.9	21
32	Non-targeted metabolite profiling highlights the potential of strawberry leaves as a resource for specific bioactive compounds. <i>Journal of the Science of Food and Agriculture</i> , 2017 , 97, 2182-2190	4.3	18

31	Metabolic profiling discriminates between strawberry (<i>Fragaria</i> × <i>Ananassa</i> Duch.) cultivars grown in Finland or Estonia. <i>Food Research International</i> , 2016 , 89, 647-653	7	10
30	Changes in the phytochemical profile of rye bran induced by enzymatic bioprocessing and sourdough fermentation. <i>Food Research International</i> , 2016 , 89, 1106-1115	7	24
29	Non-targeted metabolite profiling reveals changes in oxidative stress, tryptophan and lipid metabolisms in fearful dogs. <i>Behavioral and Brain Functions</i> , 2016 , 12, 7	4.1	21
28	A non-targeted metabolite profiling pilot study suggests that tryptophan and lipid metabolisms are linked with ADHD-like behaviours in dogs. <i>Behavioral and Brain Functions</i> , 2016 , 12, 27	4.1	17
27	Glycosylated Benzoxazinoids Are Degraded during Fermentation of Wheat Bran. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 5943-9	5.7	11
26	Amino acid-derived betaines dominate as urinary markers for rye bran intake in mice fed high-fat diet—A nontargeted metabolomics study. <i>Molecular Nutrition and Food Research</i> , 2015 , 59, 1550-62	5.9	25
25	Nontargeted metabolite profiling discriminates diet-specific biomarkers for consumption of whole grains, fatty fish, and bilberries in a randomized controlled trial. <i>Journal of Nutrition</i> , 2015 , 145, 7-17	4.1	103
24	Application of Metabolomics to Assess Effects of Controlled Dietary Interventions. <i>Current Nutrition Reports</i> , 2015 , 4, 365-376	6	2
23	Discovery of urinary biomarkers of whole grain rye intake in free-living subjects using nontargeted LC-MS metabolite profiling. <i>Molecular Nutrition and Food Research</i> , 2015 , 59, 2315-25	5.9	33
22	CMPF does not associate with impaired glucose metabolism in individuals with features of metabolic syndrome. <i>PLoS ONE</i> , 2015 , 10, e0124379	3.7	20
21	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. <i>Molecular Nutrition and Food Research</i> , 2015 , 59, 711-28	5.9	42
20	Nontargeted metabolite profiles and sensory properties of strawberry cultivars grown both organically and conventionally. <i>Journal of Agricultural and Food Chemistry</i> , 2015 , 63, 1010-9	5.7	44
19	Impact of wheat aleurone structure on metabolic disorders caused by a high-fat diet in mice. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 10101-9	5.7	12
18	Metabolic profiling of Goji berry extracts for discrimination of geographical origin by non-targeted liquid chromatography coupled to quadrupole time-of-flight mass spectrometry. <i>Food Research International</i> , 2014 , 63, 132-138	7	69
17	The postprandial plasma rye fingerprint includes benzoxazinoid-derived phenylacetamide sulfates. <i>Journal of Nutrition</i> , 2014 , 144, 1016-22	4.1	34
16	The role of oxygen in the liquid fermentation of wheat bran. <i>Food Chemistry</i> , 2014 , 153, 424-31	8.5	21
15	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. <i>Nutrition and Metabolism</i> , 2014 , 11, 1	4.6	85
14	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. <i>Molecular Nutrition and Food Research</i> , 2013 , 57, 1959-68	5.9	46

13	Comparative nontargeted profiling of metabolic changes in tissues and biofluids in high-fat diet-fed Ossabaw pig. <i>Journal of Proteome Research</i> , 2013 , 12, 3980-92	5.6	27
12	UPLC-QTOF/MS metabolic profiling unveils urinary changes in humans after a whole grain rye versus refined wheat bread intervention. <i>Molecular Nutrition and Food Research</i> , 2013 , 57, 412-22	5.9	66
11	Metabolomics reveals the metabolic shifts following an intervention with rye bread in postmenopausal women--a randomized control trial. <i>Nutrition Journal</i> , 2012 , 11, 88	4.3	34
10	In vitro microbiotic fermentation causes an extensive metabolite turnover of rye bran phytochemicals. <i>PLoS ONE</i> , 2012 , 7, e39322	3.7	14
9	Identification of novel lignans in the whole grain rye bran by non-targeted LC/MS metabolite profiling. <i>Metabolomics</i> , 2012 , 8, 399-409	4.7	33
8	Qualitative characterization of benzoxazinoid derivatives in whole grain rye and wheat by LC-MS metabolite profiling. <i>Journal of Agricultural and Food Chemistry</i> , 2011 , 59, 921-7	5.7	72
7	Impact of dietary polyphenols on carbohydrate metabolism. <i>International Journal of Molecular Sciences</i> , 2010 , 11, 1365-402	6.3	701
6	Metabolomics in Fruit Development 2010 , 675-693		1
5	NMR and UPLC-qTOF-MS/MS characterisation of novel phenylethanol derivatives of phenylpropanoid glucosides from the leaves of strawberry (<i>Fragaria x ananassa</i> cv. Jonsok). <i>Phytochemical Analysis</i> , 2009 , 20, 353-64	3.4	33
4	Stilbene synthase gene transfer caused alterations in the phenylpropanoid metabolism of transgenic strawberry (<i>Fragaria x ananassa</i>). <i>Journal of Experimental Botany</i> , 2009 , 60, 2093-106	7	50
3	Reconfiguration of the achene and receptacle metabolic networks during strawberry fruit development. <i>Plant Physiology</i> , 2008 , 148, 730-50	6.6	222
2	Non-targeted analysis of spatial metabolite composition in strawberry (<i>Fragaria x ananassa</i>) flowers. <i>Phytochemistry</i> , 2008 , 69, 2463-81	4	167
1	Metabolomic signature of the maternal microbiota in the fetus		1