

CITATION REPORT

List of articles citing

Gut flora metabolism of phosphatidylcholine promotes cardiovascular disease

DOI: [10.1038/nature09922](https://doi.org/10.1038/nature09922)
Nature, 2011, 472, 57-63.

Source: <https://exaly.com/paper-pdf/51036808/citation-report.pdf>

Version: 2024-04-26

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
2203	Decreasing urea:trimethylamine N-oxide ratios with depth in chondrichthyes: a physiological depth limit?. 2011 , 84, 494-505		42
2202	Integration of metabolomics in heart disease and diabetes research: current achievements and future outlook. 2011 , 3, 2205-22		50
2201	Dynamic metabolic response of mice to acute mequindox exposure. 2011 , 10, 5183-90		47
2200	Flagging flora: heart disease link. <i>Nature</i> , 2011 , 477, 162	50.4	
2199	Lessons from studying insect symbioses. 2011 , 10, 359-67		143
2198	The microbial-mammalian metabolic axis: beyond simple metabolism. 2011 , 13, 489-90		28
2197	Gut microbiota and the role of probiotics in therapy. 2011 , 11, 593-603		42
2196	Metabolomics as a tool for cardiac research. 2011 , 8, 630-43		179
2195	Evaluation of the gut barrier to intestinal bacteria in non-alcoholic fatty liver disease. 2011 , 55, 1181-3		16
2194	Understanding the role of gut microbiome-host metabolic signal disruption in health and disease. 2011 , 19, 349-59		359
2193	Epigenetic mechanisms elicited by nutrition in early life. 2011 , 24, 198-205		164
2192	Cellular immunity, low-density lipoprotein and atherosclerosis: break of tolerance in the artery wall. 2011 , 106, 779-86		86
2191	A study in balance: how microbiomes are changing the shape of environmental health. 2011 , 119, A340-6		16
2190	Exposure science and the exposome: an opportunity for coherence in the environmental health sciences. 2011 , 119, A466-7		84
2189	New insights into uremia-induced alterations in metabolic pathways. 2011 , 20, 593-8		17
2188	Enteric microbiome metabolites correlate with response to simvastatin treatment. 2011 , 6, e25482		127
2187	Human distal gut microbiome. 2011 , 13, 3088-102		66

2186	Cardiovascular disease: the diet-microbe morbid union. <i>Nature</i> , 2011 , 472, 40-1	50.4	34
2185	Electronics: industry-compatible graphene transistors. <i>Nature</i> , 2011 , 472, 41-2	50.4	79
2184	Wild immunology: converging on the real world. 2011 , 1236, 17-29		17
2183	Circulating, imaging, and genetic biomarkers in cardiovascular risk prediction. 2011 , 21, 105-12		9
2182	Gut-liver interaction in triglyceride-rich lipoprotein metabolism. 2011 , 301, E429-46		82
2181	Atherosclerosis: current pathogenesis and therapeutic options. 2011 , 17, 1410-22		1402
2180	Non-alcoholic fatty liver disease and cardiovascular risk: metabolic aspects and novel treatments. 2011 , 40, 332-43		53
2179	Separation strategies for untargeted metabolomics. 2011 , 34, 3460-9		93
2178	Shifting from a gene-centric to metabolite-centric strategy to determine the core gut microbiome. 2011 , 2, 309-14		3
2177	Recent highlights of metabolomics in cardiovascular research. 2011 , 4, 463-4		7
2176	Atherosclerosis: beyond cholesterol. 2011 , 22, 507-8		1
2175	Lipid metabolism by gut microbes and atherosclerosis. 2011 , 109, 127-9		36
2174	Deficiency of PXR decreases atherosclerosis in apoE-deficient mice. 2011 , 52, 1652-9		61
2173	The hybrid science of diet, microbes, and metabolic health. 2011 , 94, 1-2		20
2172	Research Highlights. 2011 , 17, 556-557		0
2171	Notable advances 2011. 2011 , 17, 1540-1		0
2170	A genome-wide metabolic QTL analysis in Europeans implicates two loci shaped by recent positive selection. 2011 , 7, e1002270		109
2169	Intronic cis-regulatory modules mediate tissue-specific and microbial control of <i>angptl4/fiaf</i> transcription. 2012 , 8, e1002585		33

2168	An integrated approach to the exposome. 2012 , 120, A103-4; author reply A104	16
2167	Microbes and metabolic health. 2012 , 61, 1655-6	4
2166	Circulation Research Thematic Synopsis. 2012 , 111,	2
2165	Anti-inflammatory properties of sirtuin 6 in human umbilical vein endothelial cells. 2012 , 2012, 597514	94
2164	Investigating potential mechanisms of obesity by metabolomics. 2012 , 2012, 805683	87
2163	Do vivarium conditions influence atherosclerotic lesion size?. 2012 , 32, 2339-40	1
2162	Taking a metagenomic view of human nutrition. 2012 , 15, 448-54	43
2161	High-density lipoprotein and 4F peptide reduce systemic inflammation by modulating intestinal oxidized lipid metabolism: novel hypotheses and review of literature. 2012 , 32, 2553-60	54
2160	Maternal choline intake modulates maternal and fetal biomarkers of choline metabolism in humans. 2012 , 95, 1060-71	117
2159	Converging on a mechanism for choline degradation. 2012 , 109, 21184-5	16
2158	Gut microbiota accelerate tumor growth via c-jun and STAT3 phosphorylation in APCMin/+ mice. 2012 , 33, 1231-8	143
2157	Choline intake and risk of lethal prostate cancer: incidence and survival. 2012 , 96, 855-63	41
2156	Differences in metabolomic profiles of male db/db and s/s, leptin receptor mutant mice. 2012 , 44, 374-81	12
2155	Choline supplementation and measures of choline and betaine status: a randomised, controlled trial in postmenopausal women. 2012 , 108, 1264-71	21
2154	The gut microbiota and its relationship to diet and obesity: new insights. 2012 , 3, 186-202	277
2153	Uremic solutes from colon microbes. 2012 , 81, 949-954	116
2152	Plasma choline metabolites associate with metabolic stress among young overweight men in a genotype-specific manner. 2012 , 2, e49	22
2151	Activation of cholera toxin production by anaerobic respiration of trimethylamine N-oxide in <i>Vibrio cholerae</i> . 2012 , 287, 39742-52	40

2150	Association of a genetic risk score with prevalent and incident myocardial infarction in subjects undergoing coronary angiography. 2012 , 5, 441-9	31
2149	The gene or not the gene--that is the question: understanding the genetically engineered mouse phenotype. 2012 , 49, 5-15	12
2148	Biomarkers intersect with the exposome. 2012 , 17, 483-9	85
2147	The gut microbiota, environment and diseases of modern society. 2012 , 3, 374-82	39
2146	Effect of 9p21.3 coronary artery disease locus neighboring genes on atherosclerosis in mice. 2012 , 126, 1896-906	35
2145	Lactobacillus reuteri prevents diet-induced obesity, but not atherosclerosis, in a strain dependent fashion in Apoe ^{-/-} mice. 2012 , 7, e46837	113
2144	A metabolomic approach to clarifying the effect of AST-120 on 5/6 nephrectomized rats by capillary electrophoresis with mass spectrometry (CE-MS). 2012 , 4, 1309-22	27
2143	The gut microbiome: scourge, sentinel or spectator?. 2012 , 4,	38
2142	Nicotinamide, NAD(P)(H), and Methyl-Group Homeostasis Evolved and Became a Determinant of Ageing Diseases: Hypotheses and Lessons from Pellagra. 2012 , 2012, 302875	27
2141	Invited commentary: the 21st century epidemiologist--a need for different training?. 2012 , 176, 668-71	16
2140	Quantitative assessment of the impact of the gut microbiota on lysine epsilon-acetylation of host proteins using gnotobiotic mice. 2012 , 109, 11133-8	36
2139	High-throughput quantification of circulating metabolites improves prediction of subclinical atherosclerosis. 2012 , 33, 2307-16	92
2138	Healthcare reform: it is getting personal. 2012 , 9, 405-412	2
2137	Advancing cardiovascular research. 2012 , 141, 500-505	20
2136	Pulmonary research in 2013 and beyond: a National Heart, Lung, and Blood Institute perspective. 2012 , 303, L729-32	2
2135	L. 2012 , 1177-1214	
2134	Metabolic phenotyping in clinical and surgical environments. <i>Nature</i> , 2012 , 491, 384-92	50.4 364
2133	Systems-based approaches to cardiovascular disease. 2012 , 9, 172-84	60

2132	Role of the intestinal microbiome in health and disease: from correlation to causation. 2012 , 70 Suppl 1, S45-56	271
2131	Gut microbiota composition and activity in relation to host metabolic phenotype and disease risk. 2012 , 16, 559-64	316
2130	Gut microbial activity, implications for health and disease: the potential role of metabolite analysis. 2012 , 11, 5573-85	181
2129	An antiatherosclerotic signaling cascade involving intestinal microbiota, microRNA-10b, and ABCA1/ABCG1-mediated reverse cholesterol transport. 2012 , 111, 948-50	16
2128	Gut microbiota metabolism of anthocyanin promotes reverse cholesterol transport in mice via repressing miRNA-10b. 2012 , 111, 967-81	219
2127	Microbial conversion of choline to trimethylamine requires a glycy radical enzyme. 2012 , 109, 21307-12	414
2126	Metabolic response to oral microcystin-LR exposure in the rat by NMR-based metabolomic study. 2012 , 11, 5934-46	38
2125	Symptomatic atherosclerosis is associated with an altered gut metagenome. 2012 , 3, 1245	666
2124	The gut microbiota in 2011: Translating the microbiota to medicine. 2011 , 9, 72-4	23
2123	Metabolic perturbation in autism spectrum disorders: a metabolomics study. 2012 , 11, 5856-62	167
2122	Genomic approaches to studying the human microbiota. <i>Nature</i> , 2012 , 489, 250-6	50.4 342
2121	The biological role of inflammation in atherosclerosis. 2012 , 28, 631-41	124
2120	Phosphatidylcholine functional foods and nutraceuticals: A potential approach to prevent non-alcoholic fatty liver disease. 2012 , 114, 389-398	15
2119	Different metabolic and absorption patterns of betaine in response to dietary intake of whole-wheat grain, wheat aleurone or rye aleurone in catheterized pigs. 2012 , 235, 939-949	10
2118	Metabonomics Study of TCM Formula: Qutan Huayu Tongmai Granule as an Effective Treatment for Atherosclerosis in Mini-Pigs. 2012 , 75, 1279-1286	3
2117	NASH and atherosclerosis are two aspects of a shared disease: central role for macrophages. 2012 , 220, 287-93	66
2116	The -omics era: proteomics and lipidomics in vascular research. 2012 , 221, 12-7	34
2115	The world within: living with our microbial guests and guides. 2012 , 160, 239-45	8

2114	Distinct urinary metabolic profile of human colorectal cancer. 2012 , 11, 1354-63	155
2113	La parodontite dans le remodelage vasculaire. 2012 , 2012, 33-35	
2112	Exploratory urinary metabolic biomarkers and pathways using UPLC-Q-TOF-HDMS coupled with pattern recognition approach. 2012 , 137, 4200-8	97
2111	Systemic modelling of human bioenergetics and blood circulation. 2012 , 6, 187-95	1
2110	Drug-induced hepatotoxicity: application of mass spectrometry based metabonomics. 2012 , 4, 1887	3
2109	Surgical systems biology and personalized longitudinal phenotyping in critical care. 2012 , 9, 593-608	5
2108	Animal models of atherosclerosis. 2012 , 32, 1104-15	377
2107	Ingenuity pathways analysis of urine metabolomics phenotypes toxicity of Chuanwu in Wistar rats by UPLC-Q-TOF-HDMS coupled with pattern recognition methods. 2012 , 8, 1206-21	75
2106	Metabolomic profiling for the identification of novel biomarkers and mechanisms related to common cardiovascular diseases: form and function. 2012 , 126, 1110-20	252
2105	Metabotyping of long-lived mice using 1H NMR spectroscopy. 2012 , 11, 2224-35	47
2104	Urinary metabolic phenotyping the slc26a6 (chloride-oxalate exchanger) null mouse model. 2012 , 11, 4425-35	23
2103	Metabolome 2.0: quantitative genetics and network biology of metabolic phenotypes. 2012 , 8, 2494-502	46
2102	Host responses to the human microbiome. 2012 , 70 Suppl 1, S14-7	55
2101	New families of bioactive oxidized phospholipids generated by immune cells: identification and signaling actions. 2012 , 120, 1985-92	69
2100	Metabolomics and cardiovascular biomarker discovery. 2012 , 58, 139-47	168
2099	Intestinal microbiota determine severity of myocardial infarction in rats. 2012 , 26, 1727-35	183
2098	Nutritional metabolomics: progress in addressing complexity in diet and health. 2012 , 32, 183-202	188
2097	Inhibitory effect of phospholipids on P-glycoprotein: cellular studies in Caco-2, MDCKII mdr1 and MDCKII wildtype cells and P-gp ATPase activity measurements. 2012 , 1821, 1211-23	24

2096	Is it time for a metagenomic basis of therapeutics?. 2012 , 336, 1253-5	99
2095	Enhanced Ionization of Phosphatidylcholines during MALDI Mass Spectrometry Using DCTB as Matrix. 2012 , 30, 2091-2096	2
2094	Variability of plasma and urine betaine in diabetes mellitus and its relationship to methionine load test responses: an observational study. 2012 , 11, 34	23
2093	Metabolomics reveals the metabolic shifts following an intervention with rye bread in postmenopausal women--a randomized control trial. 2012 , 11, 88	34
2092	Excessive folate synthesis limits lifespan in the C. elegans: E. coli aging model. 2012 , 10, 67	81
2091	Lipidomics in Atherosclerotic Vascular Disease. 2012 , 251-267	1
2090	Identifying novel biomarkers for cardiovascular disease risk prediction. 2012 , 272, 430-9	38
2089	The gut microbiota-a clinical perspective on lessons learned. 2012 , 9, 609-14	81
2088	Influence of a high-fat diet on gut microbiota, intestinal permeability and metabolic endotoxaemia. 2012 , 108, 801-9	388
2087	Functional interactions between the gut microbiota and host metabolism. <i>Nature</i> , 2012 , 489, 242-9	50.4 2716
2086	How functional foods play critical roles in human health. 2012 , 1, 26-60	66
2085	Cell biology of ischemia/reperfusion injury. 2012 , 298, 229-317	1109
2084	Metabonomics reveals plasma metabolic changes and inflammatory marker in polycystic ovary syndrome patients. 2012 , 11, 2937-46	90
2083	Advances in technologies and study design. 2012 , 108, 17-50	3
2082	The relationship between gut microbiota and weight gain in humans. 2012 , 7, 91-109	235
2081	Within you, without you: is gastroenterology ready to embrace the "exposome"?. 2012 , 142, 1403-4	8
2080	Nous sommes tous des bacteries: implications for medicine, pharmacology and public health. 2012 , 84, 1543-50	12
2079	Cardiovascular biomarkers in exhaled breath. 2012 , 55, 34-43	64

2078	Translating metabolomics to cardiovascular biomarkers. 2012 , 55, 70-6	50
2077	Maximizing the value of metabolomic data. 2012 , 4, 2199-201	10
2076	Choline. 2012 , 405-418	8
2075	Investigating the pathogenesis and risk of Type 2 diabetes: clinical applications of metabolomics. 2012 , 7, 641-659	10
2074	Metabolomics reveals amino acids contribute to variation in response to simvastatin treatment. 2012 , 7, e38386	76
2073	Probiotics, prebiotics, and synbiotics: gut and beyond. 2012 , 2012, 872716	117
2072	Evolving concepts of oxidative stress and reactive oxygen species in cardiovascular disease. 2012 , 14, 476-83	93
2071	Guts, germs, and meals: the origin of type 1 diabetes. 2012 , 12, 456-62	13
2070	Gut microbiota drives metabolic disease in immunologically altered mice. 2012 , 116, 93-112	32
2069	Discovering environmental causes of disease. 2012 , 66, 99-102	47
2068	The nutrigenetics and nutrigenomics of the dietary requirement for choline. 2012 , 108, 159-77	10
2067	Molecular analysis of model gut microbiotas by imaging mass spectrometry and nanodesorption electrospray ionization reveals dietary metabolite transformations. 2012 , 84, 9259-67	50
2066	Betaine and secondary events in an acute coronary syndrome cohort. 2012 , 7, e37883	45
2065	Fecal lipocalin 2, a sensitive and broadly dynamic non-invasive biomarker for intestinal inflammation. 2012 , 7, e44328	297
2064	Metabolomic applications to decipher gut microbial metabolic influence in health and disease. 2012 , 3, 113	67
2063	Is the gut microbiota a new factor contributing to obesity and its metabolic disorders?. 2012 , 2012, 879151	138
2062	Metabolomics in the Analysis of Inflammatory Diseases. 2012 ,	1
2061	An Integrated Approach to the Exposome: Rappaport and Liroy Respond. 2012 , 120,	1

2060	Characterizing exposomes: tools for measuring personal environmental exposures. 2012 , 120, A158-63		11
2059	Metagenomic systems biology of the human gut microbiome reveals topological shifts associated with obesity and inflammatory bowel disease. 2012 , 109, 594-9		592
2058	Biomarkers and cardiovascular risk assessment for primary prevention: an update. 2012 , 58, 72-82		64
2057	The human microbiome: at the interface of health and disease. 2012 , 13, 260-70		2015
2056	Gut microbiota composition correlates with diet and health in the elderly. <i>Nature</i> , 2012 , 488, 178-84	50.4	1987
2055	Inflammasomes in health and disease. <i>Nature</i> , 2012 , 481, 278-86	50.4	1546
2054	Microbiota, disease, and back to health: a metastable journey. 2012 , 4, 137rv7		206
2053	Top advances in functional genomics and translational biology for 2011. 2012 , 5, 143-5		0
2052	The human microbiome: our second genome. 2012 , 13, 151-70		365
2051	Host-gut microbiota metabolic interactions. 2012 , 336, 1262-7		2728
2050	A complex microworld in the gut: gut microbiota and cardiovascular disease connectivity. 2012 , 18, 1188-9		65
2049	Meta-analysis of untargeted metabolomic data from multiple profiling experiments. 2012 , 7, 508-16		135
2048	The use of high-throughput technologies to investigate vascular inflammation and atherosclerosis. 2012 , 32, 182-95		26
2047	Stability and robustness of human metabolic phenotypes in response to sequential food challenges. 2012 , 11, 643-55		103
2046	Fresh approaches to anti-infective therapies. 2012 , 4, 140sr2		114
2045	Anthropology of microbes. 2012 , 109, 6378-81		61
2044	Toll-like receptor-gut microbiota interactions: perturb at your own risk!. 2012 , 74, 177-98		113
2043	Nutrition, Genetics, and Cardiovascular Disease. 2012 , 1, 93-99		1

2042	A longitudinal systems biology analysis of lactulose withdrawal in hepatic encephalopathy. 2012 , 27, 205-15	72
2041	Measurement of marine osmolytes in mammalian serum by liquid chromatography-tandem mass spectrometry. 2012 , 420, 7-12	23
2040	Control of antiviral immunity by pattern recognition and the microbiome. 2012 , 245, 209-26	70
2039	The effects of commensal microbiota on immune cell subsets and inflammatory responses. 2012 , 245, 45-55	75
2038	The potential for probiotic manipulation of the gastrointestinal microbiome. 2012 , 23, 192-201	56
2037	Genetics of atherosclerosis. 2012 , 28, 267-75	75
2036	The Belgian Nutrition Society 2nd Annual Meeting: micro-organisms in human nutrition Exploring new pathways for health. 2012 , 37, 92-95	
2035	Health effects of dietary phospholipids. 2012 , 11, 3	309
2034	Gut microbiota: an environmental risk factor for cardiovascular disease. 2013 , 229, 440-2	26
2033	The gut microbiota and obesity: from correlation to causality. 2013 , 11, 639-47	478
2032	Meldonium decreases the diet-increased plasma levels of trimethylamine N-oxide, a metabolite associated with atherosclerosis. 2013 , 53, 1095-8	39
2031	Holobiont nutrition: considering the role of the gastrointestinal microbiota in the health benefits of whole grains. 2013 , 4, 340-6	25
2030	A combination of untargeted and targeted metabolomics approaches unveils changes in the kynurenine pathway following cardiopulmonary resuscitation. 2013 , 9, 839-852	10
2029	Microbial-mammalian cometabolites dominate the age-associated urinary metabolic phenotype in Taiwanese and American populations. 2013 , 12, 3166-80	37
2028	Effects of smoking and smoking cessation on human serum metabolite profile: results from the KORA cohort study. 2013 , 11, 60	77
2027	The gut microbiome: a new frontier in autism research. 2013 , 15, 337	164
2026	Systems biomedicine: It's your turn Recent progress in systems biomedicine. 2013 , 1, 140-155	2
2025	Gut microbiota imbalance and chaperoning system malfunction are central to ulcerative colitis pathogenesis and can be counteracted with specifically designed probiotics: a working hypothesis. 2013 , 202, 393-406	29

2024	Atherosclerosis and transit of HDL through the lymphatic vasculature. 2013 , 15, 354	20
2023	The absence of a microbiota enhances TSLP expression in mice with defective skin barrier but does not affect the severity of their allergic inflammation. 2013 , 133, 2714-2721	28
2022	Where do health benefits of flavonoids come from? Insights from flavonoid targets and their evolutionary history. 2013 , 434, 701-4	46
2021	An analysis of a 'community-driven' reconstruction of the human metabolic network. 2013 , 9, 757-764	30
2020	Intestinal colonization: how key microbial players become established in this dynamic process: microbial metabolic activities and the interplay between the host and microbes. 2013 , 35, 913-23	47
2019	The role of the gut in reverse cholesterol transport--focus on the enterocyte. 2013 , 52, 317-28	30
2018	Metabolic hypertension: concept and practice. 2013 , 7, 201-6	7
2017	Reversing metabolic diseases through diabetes surgery: do the proximal gut and related hormones play key roles in glucose homeostasis?. 2013 , 44, 407-8	2
2016	The gut microbiota and the liver. Pathophysiological and clinical implications. 2013 , 58, 1020-7	85
2015	Dietary pyrroloquinoline quinone (PQQ) alters indicators of inflammation and mitochondrial-related metabolism in human subjects. 2013 , 24, 2076-84	77
2014	Gut microbiota and non-alcoholic fatty liver disease: new insights. 2013 , 19, 338-48	157
2013	Cometabolism of microbes and host: implications for drug metabolism and drug-induced toxicity. 2013 , 94, 574-81	67
2012	Colonic bacterial metabolites and human health. 2013 , 16, 246-54	243
2011	Systems Epidemiology: A New Direction in Nutrition and Metabolic Disease Research. 2013 , 2, 225	33
2010	Molecular biology of atherosclerosis. 2013 , 93, 1317-542	312
2009	Aspirin hydrolysis in plasma is a variable function of butyrylcholinesterase and platelet-activating factor acetylhydrolase 1b2 (PAFAH1b2). 2013 , 288, 11940-8	26
2008	Opium use and risk of mortality from digestive diseases: a prospective cohort study. 2013 , 108, 1757-65	38
2007	Transgenic 6F tomatoes act on the small intestine to prevent systemic inflammation and dyslipidemia caused by Western diet and intestinally derived lysophosphatidic acid. 2013 , 54, 3403-18	51

2006	Clinical consequences of diet-induced dysbiosis. 2013 , 63 Suppl 2, 28-40	81
2005	Developing a metagenomic view of xenobiotic metabolism. 2013 , 69, 21-31	123
2004	Gut microbiota metabolism of L-carnitine and cardiovascular risk. 2013 , 231, 456-61	124
2003	The influence of probiotics and probiotic product on respiration of mitochondria and intracellular calcium signal in cells of cardiovascular system. 2013 , 7, 294-301	3
2002	Looking large, to make more, out of gut metagenomics. 2013 , 16, 630-5	6
2001	Meta-analyses of studies of the human microbiota. 2013 , 23, 1704-14	289
2000	Status of selected nutrients in obese dogs undergoing caloric restriction. 2013 , 9, 219	12
1999	ProAlgaZyme subfraction improves the lipoprotein profile of hypercholesterolemic hamsters, while inhibiting production of betaine, carnitine, and choline metabolites. 2013 , 10, 55	2
1998	Decision tree-based method for integrating gene expression, demographic, and clinical data to determine disease endotypes. 2013 , 7, 119	18
1997	Metabolic Syndrome and Obesity in Adults. 2013 , 103-121	
1996	Therapeutic potential of fecal microbiota transplantation. 2013 , 145, 946-53	395
1995	Fecal transplant: a safe and sustainable clinical therapy for restoring intestinal microbial balance in human disease?. 2013 , 27, 127-37	73
1994	Assessing the human gut microbiota in metabolic diseases. 2013 , 62, 3341-9	289
1993	How microbiomes influence metazoan development: insights from history and Drosophila modeling of gut-microbe interactions. 2013 , 29, 571-92	102
1992	Diet, the human gut microbiota, and IBD. 2013 , 24, 117-20	91
1991	Risk factors for cardiovascular disease: a cautionary tale of diet-microbiome interactions. 2013 , 32, 75-8	6
1990	Elimination of endoplasmic reticulum stress and cardiovascular, type 2 diabetic, and other metabolic diseases. 2013 , 45, 194-202	15
1989	Ketone body metabolism and cardiovascular disease. 2013 , 304, H1060-76	245

1988	Hypothesis: bacteria control host appetites. 2013 , 195, 411-6	49
1987	Next-generation sequencing technologies and their impact on microbial genomics. 2013 , 12, 440-53	46
1986	Synchronous evolution of an odor biosynthesis pathway and behavioral response. 2013 , 23, 11-20	130
1985	Paraoxonases: ancient substrate hunters and their evolving role in ischemic heart disease. 2013 , 59, 65-100	22
1984	Coming full circle in diabetes mellitus: from complications to initiation. 2013 , 9, 113-23	47
1983	Trimethylamine-N-oxide, a metabolite associated with atherosclerosis, exhibits complex genetic and dietary regulation. 2013 , 17, 49-60	602
1982	The gut microbiota, obesity and insulin resistance. 2013 , 34, 39-58	373
1981	Interrogating the age-old wisdom of exercise. 2013 , 127, 317-9	4
1980	Current status on genome-metabolome-wide associations: an opportunity in nutrition research. 2013 , 8, 19-27	26
1979	Bacteriocins - a viable alternative to antibiotics?. 2013 , 11, 95-105	944
1978	Therapeutic modulation of intestinal dysbiosis. 2013 , 69, 75-86	113
1977	Animals in a bacterial world, a new imperative for the life sciences. 2013 , 110, 3229-36	1488
1976	Liquid chromatography quadrupole time-of-flight mass spectrometry characterization of metabolites guided by the METLIN database. 2013 , 8, 451-60	288
1975	Current metabolomics: practical applications. 2013 , 115, 579-89	188
1974	Probiotic use decreases intestinal inflammation and increases bone density in healthy male but not female mice. 2013 , 228, 1793-8	156
1973	Gut-liver axis: role of inflammasomes. 2013 , 3, 141-9	22
1972	Human metabolomics: strategies to understand biology. 2013 , 17, 841-6	99
1971	Microbial regulation of host hydrogen sulfide bioavailability and metabolism. 2013 , 60, 195-200	114

1970	Choline supplementation in children with fetal alcohol spectrum disorders has high feasibility and tolerability. 2013 , 33, 897-904	46
1969	Systems biology approaches to epidemiological studies of complex diseases. 2013 , 5, 677-86	7
1968	New food safety concerns associated with gut microbiota. 2013 , 34, 62-66	5
1967	Metabonomic approaches to nutrient metabolism and future molecular nutrition. 2013 , 52, 112-119	11
1966	A metabolic profiling analysis of the acute hepatotoxicity and nephrotoxicity of Zhusha Anshen Wan compared with cinnabar in rats using (1)H NMR spectroscopy. 2013 , 146, 572-80	34
1965	Egg yolk consumption, smoking and carotid plaque: reply to letters to the Editor by Sean Lucan and T Dylan Olver et al. 2013 , 227, 189-91	7
1964	Pathology: At the heart of the problem. <i>Nature</i> , 2013 , 493, S10-1	50.4 1
1963	New advances in separation science for metabolomics: resolving chemical diversity in a post-genomic era. 2013 , 113, 2437-68	251
1962	Shaping the Future of Personalized Nutrition with Metabolomics. 2013 , 271-301	
1961	Nutritional Metabolomics. 2013 , 393-405	
1960	Genetic control of obesity and gut microbiota composition in response to high-fat, high-sucrose diet in mice. 2013 , 17, 141-52	383
1959	Gut bacteria-host metabolic interplay during conventionalisation of the mouse germfree colon. 2013 , 7, 743-55	73
1958	Metabolomics and ischaemic heart disease. 2013 , 124, 289-306	42
1957	The gut microbiota--masters of host development and physiology. 2013 , 11, 227-38	1907
1956	Role of phospholipids in endocytosis, phagocytosis, and macropinocytosis. 2013 , 93, 69-106	186
1955	The intestinal microbiota, a leaky gut, and abnormal immunity in kidney disease. 2013 , 83, 1010-6	276
1954	The human microbiome: from symbiosis to pathogenesis. 2013 , 64, 145-63	122
1953	Metabolomics and Its Role in the Study of Mammalian Systems. 2013 , 345-377	1

1952	1H-NMR based metabonomic profiling of human esophageal cancer tissue. 2013 , 12, 25	55
1951	Importance of prebiotic and probiotic: the role of galactooligosacharides as prebiotic additives: a review. 2013 , 7,	3
1950	Intestinal microbial metabolism of phosphatidylcholine and cardiovascular risk. 2013 , 368, 1575-84	1899
1949	Quantifying the metabolic activities of human-associated microbial communities across multiple ecological scales. 2013 , 37, 830-48	17
1948	Intestinal microbiota metabolism of L-carnitine, a nutrient in red meat, promotes atherosclerosis. 2013 , 19, 576-85	2528
1947	The type and quantity of dietary fat and carbohydrate alter faecal microbiome and short-chain fatty acid excretion in a metabolic syndrome 'at-risk' population. 2013 , 37, 216-23	264
1946	Microbiomes. 2013 , 65, 916-9	8
1945	Pro- and Prebiotics for the Prevention and Treatment of Diseases in Childhood. 2013 , 267-278	
1944	Meat-metabolizing bacteria in atherosclerosis. 2013 , 19, 533-4	36
1943	A gut-heart connection in cardiometabolic regulation. 2013 , 19, 534-6	17
1942	The abundance and variety of carbohydrate-active enzymes in the human gut microbiota. 2013 , 11, 497-504	811
1941	Toward new biomarkers of cardiometabolic diseases. 2013 , 18, 43-50	61
1940	The human microbiome is a source of therapeutic drug targets. 2013 , 17, 379-84	50
1939	Impact of dietary dairy polar lipids on lipid metabolism of mice fed a high-fat diet. 2013 , 61, 2729-38	18
1938	Obesity, non-alcoholic fatty liver disease, and atherothrombosis: a role for the intestinal microbiota?. 2013 , 19, 331-7	16
1937	Metabolomics in human type 2 diabetes research. 2013 , 7, 4-13	54
1936	Dietary modification of the microbiome affects risk for cardiovascular disease. 2013 , 16, 241-4	31
1935	High-resolution quantitative metabolome analysis of urine by automated flow injection NMR. 2013 , 85, 5801-9	28

1934	Metabolomics approaches for characterizing metabolic interactions between host and its commensal microbes. 2013 , 34, 2787-98	44
1933	Metabolic phenotype modulation by caloric restriction in a lifelong dog study. 2013 , 12, 3117-27	22
1932	The role of the lung microbiome in health and disease. A National Heart, Lung, and Blood Institute workshop report. 2013 , 187, 1382-7	113
1931	Egg consumption and risk of cardiovascular diseases and diabetes: a meta-analysis. 2013 , 229, 524-30	94
1930	Gut microbiota composition modifies fecal metabolic profiles in mice. 2013 , 12, 2987-99	150
1929	Gut microbiota, the genome, and diet in atherogenesis. 2013 , 368, 1647-9	36
1928	A practical guide to metabolomic profiling as a discovery tool for human heart disease. 2013 , 55, 2-11	70
1927	Phospholipid catabolism by gut microbiota and the risk of cardiovascular disease. 2013 , 62, 948-950	12
1926	Pro-angiogenic activity of TLRs and NLRs: a novel link between gut microbiota and intestinal angiogenesis. 2013 , 144, 613-623.e9	77
1925	Nicotinuric acid: a potential marker of metabolic syndrome through a metabolomics-based approach. 2013 , 36, 1729-31	41
1924	A key to understanding the effects of food bioactives in health, gut microbiota. 2013 , 61, 9755-7	10
1923	Combining small-volume metabolomic and transcriptomic approaches for assessing brain chemistry. 2013 , 85, 3136-43	24
1922	Metabolic phenotype of the healthy rodent model using in-vial extraction of dried serum, urine, and cerebrospinal fluid spots. 2013 , 85, 7257-63	12
1921	Plasma dimethylglycine and risk of incident acute myocardial infarction in patients with stable angina pectoris. 2013 , 33, 2041-8	75
1920	L-carnitine consumption, its metabolism by intestinal microbiota, and cardiovascular health. 2013 , 88, 786-9	12
1919	A view from above: cloud plots to visualize global metabolomic data. 2013 , 85, 798-804	72
1918	Empty liposomes induce antitumoral effects associated with macrophage responses distinct from those of the TLR1/2 agonist Pam3CSK 4 (BLP). 2013 , 62, 1587-97	5
1917	Gut microbiome perturbations induced by bacterial infection affect arsenic biotransformation. 2013 , 26, 1893-903	57

1916	Stachyose-enriched galacto-oligosaccharides regulate gut microbiota and relieve constipation in mice. 2013 , 61, 11825-31	60
1915	Impact of probiotic feeding during weaning on the serum lipid profile and plasma metabolome in infants. 2013 , 110, 116-26	25
1914	Intensive risk factor control in stroke prevention. 2013 , 5, 42	10
1913	Gender specific association of ABCA1 gene R219K variant in coronary disease risk through interactions with serum triglyceride elevation in Turkish adults. 2014 , 14, 18-25	16
1912	The role of the vascular dendritic cell network in atherosclerosis. 2013 , 305, C1-21	27
1911	Serum metabolome and lipidome changes in adult patients with primary dengue infection. 2013 , 7, e2373	101
1910	Drug treatment of obesity in the cardiovascular patient. 2013 , 28, 584-91	2
1909	Current world literature. 2013 , 29, 92-105	
1908	Molecular detection of bacterial contamination in gnotobiotic rodent units. 2013 , 4, 361-70	26
1907	The colonic microbiota in health and disease. 2013 , 29, 49-54	71
1906	Getting to the 'guts' of the matter: intestinal control of lipid metabolism. 2013 , 24, 105-6	3
1905	Nutrition, microbiomes, and intestinal inflammation. 2013 , 29, 603-7	24
1904	A combined epidemiologic and metabolomic approach improves CKD prediction. 2013 , 24, 1330-8	172
1903	Searching for uremic toxins. 2013 , 8, 322-7	28
1902	Linking the microbiota and metabolic disease with lymphotoxin. 2013 , 25, 397-403	4
1901	Paradoxical association of enhanced cholesterol efflux with increased incident cardiovascular risks. 2013 , 33, 1696-705	227
1900	Diet, gut enterotypes and health: is there a link?. 2013 , 77, 65-73	13
1899	Circulation Research Thematic Synopsis. 2013 , 112,	

1898	Exploring host-microbiota interactions in animal models and humans. 2013 , 27, 701-18	308
1897	Metabolic crosstalk between choline/1-carbon metabolism and energy homeostasis. 2013 , 51, 467-75	59
1896	Metabolomic discrimination between patients with stable angina, non-ST elevation myocardial infarction, and acute myocardial infarct. 2013 , 34, n/a-n/a	
1895	The human Np53 isoform triggers metabolic and gene expression changes that activate mTOR and alter mitochondrial function. 2013 , 12, 863-72	10
1894	Exposure science, the exposome, and public health. 2013 , 54, 596-8	19
1893	Genome-wide association study of a heart failure related metabolomic profile among African Americans in the Atherosclerosis Risk in Communities (ARIC) study. 2013 , 37, 840-5	33
1892	Microbiota-induced activation of epithelial IL-6 signaling links inflammasome-driven inflammation with transmissible cancer. 2013 , 110, 9862-7	234
1891	Metabolomics in epidemiology: sources of variability in metabolite measurements and implications. 2013 , 22, 631-40	109
1890	Dietary and urinary metabonomic factors possibly accounting for higher blood pressure of black compared with white Americans: results of International Collaborative Study on macro-/micronutrients and blood pressure. 2013 , 62, 1074-80	22
1889	Prebiotics for obesity: a small light on the horizon?. 2013 , 62, 1096-7	4
1888	THE MICROBIOME: A MEDIATOR OF HUMAN WELLNESS. 2013 , 15, 5-15	
1887	Inter-organ communication in the regulation of lipid metabolism: focusing on the network between the liver, intestine, and heart. 2013 , 123, 312-7	17
1886	Nutrition in pregnancy: the argument for including a source of choline. 2013 , 5, 193-9	55
1885	Advances in Nutritional Metabolomics. 2013 , 1, 109-120	20
1884	Metabolomics--a novel window into inflammatory disease. 2013 , 143, w13743	50
1883	Long-term temporal analysis of the human fecal microbiota revealed a stable core of dominant bacterial species. 2013 , 8, e69621	115
1882	Metabonomics study of the therapeutic mechanism of Gynostemma pentaphyllum and atorvastatin for hyperlipidemia in rats. 2013 , 8, e78731	33
1881	Docosahexaenoic acid, inflammation, and bacterial dysbiosis in relation to periodontal disease, inflammatory bowel disease, and the metabolic syndrome. 2013 , 5, 3299-310	31

1880	Biomarker Discovery and Translation in Metabolomics. 2013 , 1, 227-240	67
1879	Elevated levels of circulating DNA in cardiovascular disease patients: metagenomic profiling of microbiome in the circulation. 2014 , 9, e105221	102
1878	Betaine and Trimethylamine-N-Oxide as Predictors of Cardiovascular Outcomes Show Different Patterns in Diabetes Mellitus: An Observational Study. 2014 , 9, e114969	146
1877	Effect of probiotics supplementation on bone mineral content and bone mass density. 2014 , 2014, 595962	64
1876	Archaea and the human gut: new beginning of an old story. 2014 , 20, 16062-78	200
1875	GUT MICROBIOTA. 2014 , 60, 25-34	1
1874	Trimethylamine emissions in animal husbandry. 2014 , 11, 5073-5085	34
1873	Gut microorganisms and cardiovascular disease: carnitine is the answer. 2014 , 115, 673-4	1
1872	Obesity, fatty liver disease and intestinal microbiota. 2014 , 20, 16452-63	109
1871	The Future of Metabolomic Profiling in Population-Based Research: Opportunities and Challenges. 2014 , 5,	3
1870	Principles of Drug Metabolism 3: Enzymes and Tissues. 2014 ,	1
1869	Restoring the gut microbiome for the treatment of inflammatory bowel diseases. 2014 , 20, 3468-74	25
1868	Plasma choline metabolites and colorectal cancer risk in the Women's Health Initiative Observational Study. 2014 , 74, 7442-52	143
1867	Air pollution effects on the gut microbiota: a link between exposure and inflammatory disease. 2014 , 5, 215-9	154
1866	A nonpyrrolysine member of the widely distributed trimethylamine methyltransferase family is a glycine betaine methyltransferase. 2014 , 111, E4668-76	44
1865	Carnitine metabolism to trimethylamine by an unusual Rieske-type oxygenase from human microbiota. 2014 , 111, 4268-73	197
1864	The microbiome and disease: reviewing the links between the oral microbiome, aging, and Alzheimer's disease. 2015 , 43, 725-38	128
1863	Metabolic benefits of dietary prebiotics in human subjects: a systematic review of randomised controlled trials. 2014 , 111, 1147-61	201

1862	Biomarkers of plaque instability. 2014 , 16, 547	27
1861	Interactions between the intestinal microbiota and innate lymphoid cells. 2014 , 5, 129-40	19
1860	The blood exposome and its role in discovering causes of disease. 2014 , 122, 769-74	203
1859	Western lifestyle: a 'master' manipulator of the intestinal microbiota?. 2014 , 63, 5-6	36
1858	Arsenic exposure perturbs the gut microbiome and its metabolic profile in mice: an integrated metagenomics and metabolomics analysis. 2014 , 122, 284-91	330
1857	Improved glucose tolerance in insulin-resistant rats after pea hull feeding is associated with changes in lipid metabolism-targeted transcriptome. 2014 , 39, 1112-9	4
1856	Atherosclerosis. 2014 , 2970-2985	1
1855	Applications of Next-Generation Sequencing Technologies to the Study of the Human Microbiome. 2014 , 75-106	
1854	The contributory role of gut microbiota in cardiovascular disease. 2014 , 124, 4204-11	408
1853	Modified low density lipoprotein and lipoprotein-containing circulating immune complexes as diagnostic and prognostic biomarkers of atherosclerosis and type 1 diabetes macrovascular disease. 2014 , 15, 12807-41	62
1852	Bisphenol A increases atherosclerosis in pregnane X receptor-humanized ApoE deficient mice. 2014 , 3, e000492	42
1851	Gut Microbiota in Human Health and Diseases. 2014 , 469-469	
1850	Environmental disruption of host-microbe co-adaptation as a potential driving force in evolution. 2014 , 5, 168	28
1849	MicroRNAs and the regulation of intestinal homeostasis. 2014 , 5, 347	55
1848	Gut microbes and host physiology: what happens when you host billions of guests?. 2014 , 5, 91	19
1847	The emerging role of metabolomics in the development of biomarkers for pulmonary hypertension and other cardiovascular diseases (2013 Grover Conference series). 2014 , 4, 417-23	7
1846	Systematic genomic analysis reveals the complementary aerobic and anaerobic respiration capacities of the human gut microbiota. 2014 , 5, 674	25
1845	Metabonomic Phenotyping for the Gut Microbiota and Mammal Interactions. 2014 , 189-201	

1844	Old dog, new trick: a direct role for leptin in regulating microbiota composition. 2014 , 155, 653-5	4
1843	Higher dietary choline intake is associated with lower risk of nonalcoholic fatty liver in normal-weight Chinese women. 2014 , 144, 2034-40	37
1842	Lung microbiome for clinicians. New discoveries about bugs in healthy and diseased lungs. 2014 , 11, 108-16	85
1841	Understanding the apothecaries within: the necessity of a systematic approach for defining the chemical output of the human microbiome. 2014 , 7, 74-81	12
1840	Trimethylamine-N-oxide: a carnitine-derived metabolite that prolongs the hypertensive effect of angiotensin II in rats. 2014 , 30, 1700-5	119
1839	A novel SCFA receptor, the microbiota, and blood pressure regulation. 2014 , 5, 202-7	197
1838	Gut microbiota and cardiometabolic outcomes: influence of dietary patterns and their associated components. 2014 , 100 Suppl 1, 369S-77S	50
1837	Placing epidemiological results in the context of multiplicity and typical correlations of exposures. 2014 , 68, 1096-100	76
1836	Simultaneous estimation of bidirectional particle flow and relative flux using MUSIC-OCT: phantom studies. 2014 , 59, 6693-708	15
1835	Studying the elusive environment in large scale. 2014 , 311, 2173-4	68
1834	Microbial community profiling of human saliva using shotgun metagenomic sequencing. 2014 , 9, e97699	102
1833	Toward a road map for global -omics: a primer on -omic technologies. 2014 , 180, 1188-95	45
1832	Inotropic effect of a new probiotic product on myocardial contractility. Comparison with diazoxide. 2014 , 59, 780-785	4
1831	Urinary metabolic profiles in early pregnancy are associated with preterm birth and fetal growth restriction in the Rhea mother-child cohort study. 2014 , 12, 110	65
1830	Metabolomics of ApcMin/+ mice genetically susceptible to intestinal cancer. 2014 , 8, 72	11
1829	'The way to a man's heart is through his gut microbiota'--dietary pro- and prebiotics for the management of cardiovascular risk. 2014 , 73, 172-85	88
1828	The gut microbiota and the metabolic health of the host. 2014 , 30, 120-7	94
1827	Metaorganismal nutrient metabolism as a basis of cardiovascular disease. 2014 , 25, 48-53	54

1826	Effect of diet on the intestinal microbiota and its activity. 2014 , 30, 189-95	58
1825	Nutritional modulation of the metabonome: applications of metabolic phenotyping in translational nutritional research. 2014 , 30, 196-207	18
1824	Lipidomics profiling and risk of cardiovascular disease in the prospective population-based Bruneck study. 2014 , 129, 1821-31	302
1823	The Intercellular Metabolic Interplay between Tumor and Immune Cells. 2014 , 5, 358	57
1822	The Gut Microbiota and Effects on Metabolism. 2014 , 508-526	3
1821	Extreme urinary betaine losses in type 2 diabetes combined with bezafibrate treatment are associated with losses of dimethylglycine and choline but not with increased losses of other osmolytes. 2014 , 28, 459-68	12
1820	Probiotics, Prebiotics, and Antibiotics for Ulcerative Colitis. 2014 , 209-220	
1819	Gut Microbiota in Metabolic Syndrome. 2014 , 171-181	1
1818	Diet, the gut microbiome and the metabolome in IBD. 2014 , 79, 73-82	14
1817	The efficacy of probiotics for monosodium glutamate-induced obesity: dietology concerns and opportunities for prevention. 2014 , 5, 2	38
1816	Analysis of breath volatile organic compounds as a noninvasive tool to diagnose nonalcoholic fatty liver disease in children. 2014 , 26, 82-7	61
1815	Intestinal microbial variation may predict early acute rejection after liver transplantation in rats. 2014 , 98, 844-52	59
1814	Probiotic use in horses - what is the evidence for their clinical efficacy?. 2014 , 28, 1640-52	41
1813	Association of soy food intake with risk and biomarkers of coronary heart disease in Chinese men. 2014 , 172, e285-7	27
1812	Extracellular metabolism-dependent uptake of lysolipids through cultured monolayer of differentiated Caco-2 cells. 2014 , 1841, 121-31	16
1811	Nonextracorporeal methods for decreasing uremic solute concentration: a future way to go?. 2014 , 34, 228-43	23
1810	Detection of hepatocellular carcinoma in hepatitis C patients: biomarker discovery by LC-MS. 2014 , 966, 154-62	18
1809	Fenofibrate causes elevation of betaine excretion but not excretion of other osmolytes by healthy adults. 2014 , 8, 433-40	7

1808	PSC: Novel disease associations providing pathogenetic clues?. 2014 , 60, 687-8	1
1807	A metabolomic profile is associated with the risk of incident coronary heart disease. 2014 , 168, 45-52.e7	56
1806	Metabolomics and systems pharmacology: why and how to model the human metabolic network for drug discovery. 2014 , 19, 171-82	122
1805	Platelet lipidomics: modern day perspective on lipid discovery and characterization in platelets. 2014 , 114, 1185-203	85
1804	Role of the microbiome in energy regulation and metabolism. 2014 , 146, 1525-33	242
1803	Computational tools for modeling xenometabolism of the human gut microbiota. 2014 , 32, 157-65	17
1802	How Gene Networks Can Uncover Novel CVD Players. 2014 , 8, 372	3
1801	Applications of miRNA technology for atherosclerosis. 2014 , 16, 386	26
1800	Increase in dietary fiber dampens allergic responses in the lung. 2014 , 20, 120-1	6
1799	Diet effects in gut microbiome and obesity. 2014 , 79, R442-51	65
1798	Drug-resistant tuberculosis: a new shot on goal. 2014 , 20, 121-3	6
1797	AGA's approach to the microbiome. 2014 , 146, 1119-21	2
1796	Meta'omic analytic techniques for studying the intestinal microbiome. 2014 , 146, 1437-1448.e1	116
1795	Interactions between the intestinal microbiome and liver diseases. 2014 , 146, 1513-24	596
1794	Diet and the intestinal microbiome: associations, functions, and implications for health and disease. 2014 , 146, 1564-72	379
1793	AGA's Approach to the Microbiome. 2014 , 12, 537-539	
1792	Lactic Acid Bacteria. 2014 ,	15
1791	Angiotensin-converting enzyme 2 and angiotensin 1-7: novel therapeutic targets. 2014 , 11, 413-26	254

1790	Antibiotics help control rotavirus infections and enhance antirotaviral immunity: are you serious?. 2014 , 210, 167-70	3
1789	The first 1000 cultured species of the human gastrointestinal microbiota. 2014 , 38, 996-1047	616
1788	Metabolomic analysis reveals metabolic changes caused by bisphenol A in rats. 2014 , 138, 256-67	35
1787	After the feature presentation: technologies bridging untargeted metabolomics and biology. 2014 , 28, 143-8	34
1786	Dietary trimethylamine N-oxide exacerbates impaired glucose tolerance in mice fed a high fat diet. 2014 , 118, 476-81	191
1785	Role of altered intestinal microbiota in systemic inflammation and cardiovascular disease in chronic kidney disease. 2014 , 9, 399-410	100
1784	Systems genetics approaches to understand complex traits. 2014 , 15, 34-48	407
1783	The heart and the gut. 2014 , 35, 426-30	83
1782	Gut microbiome and metabolic diseases. 2014 , 36, 103-14	98
1781	The gut microbiome as novel cardio-metabolic target: the time has come!. 2014 , 35, 883-7	53
1780	Systems biology for hepatologists. 2014 , 60, 736-43	9
1779	Metabolic phenotyping and systems biology approaches to understanding metabolic syndrome and fatty liver disease. 2014 , 146, 46-62	124
1778	Cereal foods are the major source of betaine in the Western diet--analysis of betaine and free choline in cereal foods and updated assessments of betaine intake. 2014 , 145, 859-65	56
1777	Prognostic value of choline and betaine depends on intestinal microbiota-generated metabolite trimethylamine-N-oxide. 2014 , 35, 904-10	369
1776	Impact of diet on human intestinal microbiota and health. 2014 , 5, 239-62	147
1775	A Systems Biology Approach to Study Metabolic Syndrome. 2014 ,	1
1774	Specialized metabolites from the microbiome in health and disease. 2014 , 20, 719-730	337
1773	Prognostic value of elevated levels of intestinal microbe-generated metabolite trimethylamine-N-oxide in patients with heart failure: refining the gut hypothesis. 2014 , 64, 1908-14	396

1772	β-Butyrobetaine is a proatherogenic intermediate in gut microbial metabolism of L-carnitine to TMAO. 2014 , 20, 799-812	313
1771	Volatile organic compounds in bile can diagnose malignant biliary strictures in the setting of pancreatic cancer: a preliminary observation. 2014 , 80, 1038-45	23
1770	Les relations entre microbiote intestinal et lipides. 2014 , 49, 213-217	
1769	Exopolysaccharide-producing probiotic Lactobacilli reduce serum cholesterol and modify enteric microbiota in ApoE-deficient mice. 2014 , 144, 1956-62	60
1768	From microbe to man: the role of microbial short chain fatty acid metabolites in host cell biology. 2014 , 307, C979-85	108
1767	Crystal structure of phosphonium carboxylate complexes. The role of the metal coordination geometry, ligand conformation and hydrogen bonding. 2014 , 16, 9010-9024	11
1766	Archaeobiotics: proposed therapeutic use of archaea to prevent trimethylaminuria and cardiovascular disease. 2014 , 5, 5-10	154
1765	Live-cell vibrational imaging of choline metabolites by stimulated Raman scattering coupled with isotope-based metabolic labeling. 2014 , 139, 2312-7	54
1764	Comparative genome-wide association studies in mice and humans for trimethylamine N-oxide, a proatherogenic metabolite of choline and L-carnitine. 2014 , 34, 1307-13	94
1763	Suppression of intestinal microbiota-dependent production of pro-atherogenic trimethylamine N-oxide by shifting L-carnitine microbial degradation. 2014 , 117, 84-92	64
1762	In vivo efficacy of HDL-like nanolipid particles containing multivalent peptide mimetics of apolipoprotein A-I. 2014 , 55, 2053-63	29
1761	Eggs as a dietary source for gut microbial production of trimethylamine-N-oxide. 2014 , 100, 741-3	23
1760	Responsiveness of cardiometabolic-related microbiota to diet is influenced by host genetics. 2014 , 25, 583-99	48
1759	Alteration of gut bacteria and metabolomes after glucaro-1,4-lactone treatment contributes to the prevention of hypercholesterolemia. 2014 , 62, 7444-51	12
1758	The gut microbiome, kidney disease, and targeted interventions. 2014 , 25, 657-70	406
1757	The food metabolome: a window over dietary exposure. 2014 , 99, 1286-308	335
1756	Emerging Applications of Metabolomics to Polyphenols and CVD Biomarker Discovery. 2014 , 1025-1044	
1755	Chemoprevention in gastrointestinal physiology and disease. Natural products and microbiome. 2014 , 307, G1-15	37

1754	Randomised clinical trial: Lactobacillus GG modulates gut microbiome, metabolome and endotoxemia in patients with cirrhosis. 2014 , 39, 1113-25	176
1753	Bariatric surgery modulates circulating and cardiac metabolites. 2014 , 13, 570-80	40
1752	Diet-induced alterations in gut microflora contribute to lethal pulmonary damage in TLR2/TLR4-deficient mice. 2014 , 8, 137-49	35
1751	Characterization of choline trimethylamine-lyase expands the chemistry of glyceryl radical enzymes. 2014 , 9, 1408-13	84
1750	Serum choline plasmalogens-those with oleic acid in sn-2-are biomarkers for coronary artery disease. 2014 , 437, 147-54	23
1749	Minireview: Gut microbiota: the neglected endocrine organ. 2014 , 28, 1221-38	584
1748	[Microbiome and nutrition. The way to a future therapy for chronic inflammatory bowel diseases?]. 2014 , 55, 889-97	3
1747	Leptin acts independently of food intake to modulate gut microbial composition in male mice. 2014 , 155, 748-57	45
1746	Gut microbiome and multiple sclerosis. 2014 , 14, 492	85
1745	Lipid profiling reveals different therapeutic effects of metformin and glipizide in patients with type 2 diabetes and coronary artery disease. 2014 , 37, 2804-12	18
1744	Approaches to uremia. 2014 , 25, 2151-8	38
1743	Comparative genomics highlights the unique biology of Methanomassiliicoccales, a Thermoplasmatales-related seventh order of methanogenic archaea that encodes pyrrolysine. 2014 , 15, 679	191
1742	The Role of Microbes in Common Non-Infectious Diseases. 2014 ,	3
1741	Xylan utilization in human gut commensal bacteria is orchestrated by unique modular organization of polysaccharide-degrading enzymes. 2014 , 111, E3708-17	98
1740	Gut microbiota, the pharmabiotics they produce and host health. 2014 , 73, 477-89	91
1739	Whey protein delays gastric emptying and suppresses plasma fatty acids and their metabolites compared to casein, gluten, and fish protein. 2014 , 13, 2396-408	51
1738	The role of diet on intestinal microbiota metabolism: downstream impacts on host immune function and health, and therapeutic implications. 2014 , 49, 785-98	142
1737	The effects of the microbiota on the host immune system. 2014 , 47, 494-504	32

1736	B cells and humoral immunity in atherosclerosis. 2014 , 114, 1743-56	189
1735	Anatomical localization of commensal bacteria in immune cell homeostasis and disease. 2014 , 260, 35-49	46
1734	Bacterial multispecies studies and microbiome analysis of a plant disease. 2014 , 160, 556-566	41
1733	Asthma, allergy, and responses to methyl donor supplements and nutrients. 2014 , 133, 1246-54	41
1732	NAFLD and Cardiovascular Disease: Can the Real Association Be Determined?. 2014 , 13, 130-141	4
1731	Cholera toxin production during anaerobic trimethylamine N-oxide respiration is mediated by stringent response in <i>Vibrio cholerae</i> . 2014 , 289, 13232-42	17
1730	Differential effects of oral and intravenous l-carnitine on serum lipids: is the microbiota the answer?. 2014 , 7, 437-41	6
1729	Systemic responses of BALB/c mice to <i>Salmonella typhimurium</i> infection. 2014 , 13, 4436-45	15
1728	The human microbiome and bile acid metabolism: dysbiosis, dysmetabolism, disease and intervention. 2014 , 14, 467-82	87
1727	Worms, bacteria, and micronutrients: an elegant model of our diet. 2014 , 30, 496-503	50
1726	The breathprints in patients with liver disease identify novel breath biomarkers in alcoholic hepatitis. 2014 , 12, 516-23	68
1725	Overview of cardiac markers in heart disease. 2014 , 34, 1-14, xi	6
1724	The gastrointestinal microbiota and multi-strain probiotic therapy: In children and adolescent obesity. 2014 , 1, 2-8	1
1723	Metabolomic analysis of biochemical changes in the plasma and urine of collagen-induced arthritis in rats after treatment with Huang-Lian-Jie-Du-Tang. 2014 , 154, 55-64	46
1722	Measurement of trimethylamine-N-oxide by stable isotope dilution liquid chromatography tandem mass spectrometry. 2014 , 455, 35-40	197
1721	Egg n-3 fatty acid composition modulates biomarkers of choline metabolism in free-living lacto-ovo-vegetarian women of reproductive age. 2014 , 114, 1594-600	15
1720	Serum total and high-density lipoprotein phospholipids: independent predictive value for cardiometabolic risk. 2014 , 33, 815-22	6
1719	Yo soy yo y mi microbiota (parafraseando a Ortega y Gasset). 2014 , 7, 1-2	

1718	Effect of egg ingestion on trimethylamine-N-oxide production in humans: a randomized, controlled, dose-response study. 2014 , 100, 778-86	165
1717	Microbiota-liver axis in hepatic disease. 2014 , 59, 328-39	208
1716	Elucidating the interactions between the human gut microbiota and its host through metabolic modeling. 2014 , 5, 86	63
1715	Incorporation of therapeutically modified bacteria into gut microbiota inhibits obesity. 2014 , 124, 3391-406	171
1714	Host-microbial interactions in the metabolism of therapeutic and diet-derived xenobiotics. 2014 , 124, 4173-81	170
1713	Mechanistic links between gut microbial community dynamics, microbial functions and metabolic health. 2014 , 20, 16498-517	74
1712	The influence of early life nutrition on epigenetic regulatory mechanisms of the immune system. 2014 , 6, 4706-19	48
1711	The role of the gut microbiome in the pathogenesis and treatment of obesity. 2014 , 3, 44-57	32
1710	Cancer and Inammation. 2014 , 113-126	
1709	Nutrition, Microbiomes, and Intestinal Inflammation. 2014 , 1-8	
1708	Krill oil reduces plasma triacylglycerol level and improves related lipoprotein particle concentration, fatty acid composition and redox status in healthy young adults - a pilot study. 2015 , 14, 163	29
1707	Vancomycin treatment and butyrate supplementation modulate gut microbe composition and severity of neointimal hyperplasia after arterial injury. 2015 , 3, e12627	17
1706	Effect of the Gut Microbiota on Obesity and Its Underlying Mechanisms: an Update. 2015 , 28, 839-847	6
1705	Adaptation of anaerobic cultures of Escherichia coli K-12 in response to environmental trimethylamine-N-oxide. 2015 , 17, 2477-91	6
1704	Systems biology of host-microbe metabolomics. 2015 , 7, 195-219	64
1703	Nutrition and the science of disease prevention: a systems approach to support metabolic health. 2015 , 1352, 1-12	31
1702	Using exposomics to assess cumulative risks and promote health. 2015 , 56, 715-23	33
1701	Intestinal Immunity and Gut Microbiota as Therapeutic Targets for Preventing Atherosclerotic Cardiovascular Diseases. 2015 , 79, 1882-90	36

1700	Microbiota prevents cholesterol loss from the body by regulating host gene expression in mice. 2015 , 5, 10512	35
1699	Dysbiosis of the gut microbiota in disease. 2015 , 26, 26191	604
1698	[Gut Microbiota and Internal Diseases: Update Information. Topics: V. Gut Microbiota: Topics in Various Medical Fields; 1. Does intestinal flora promote atherosclerosis?]. 2015 , 104, 66-70	1
1697	Molecular Nutrition The Practical Guide. 2015 ,	
1696	The gut microbiota modulates host amino acid and glutathione metabolism in mice. 2015 , 11, 834	199
1695	Metabolomics insights into chronic kidney disease and modulatory effect of rhubarb against tubulointerstitial fibrosis. 2015 , 5, 14472	115
1694	Egg and egg-derived foods: effects on human health and use as functional foods. 2015 , 7, 706-29	132
1693	Fecal microbiota transplantation broadening its application beyond intestinal disorders. 2015 , 21, 102-11	142
1692	Uremic Solutes Produced by Colon Microbes. 2015 , 40, 306-11	13
1691	Long-term intake of animal flesh and risk of developing hypertension in three prospective cohort studies. 2015 , 33, 2231-8	33
1690	Alcoholic, Nonalcoholic, and Toxicant-Associated Steatohepatitis: Mechanistic Similarities and Differences. 2015 , 1, 356-367	48
1689	Probiotic therapy to attenuate weight gain and trimethylamine-N-Oxide generation: A cautionary tale. 2015 , 23, 2321-2	4
1688	A Bioorthogonal Reaction of N-Oxide and Boron Reagents. 2015 , 127, 16003-16007	15
1687	Gut microbiota in hypertension. 2015 , 24, 403-9	102
1686	A genome-wide systems analysis reveals strong link between colorectal cancer and trimethylamine N-oxide (TMAO), a gut microbial metabolite of dietary meat and fat. 2015 , 16 Suppl 7, S4	103
1685	Systematic review regarding metabolic profiling for improved pathophysiological understanding of disease and outcome prediction in respiratory infections. 2015 , 16, 125	27
1684	Cultivation of stable, reproducible microbial communities from different fecal donors using minibioreactor arrays (MBRAs). 2015 , 3, 42	76
1683	A Bioorthogonal Reaction of N-Oxide and Boron Reagents. 2015 , 54, 15777-81	44

1682	Functional food addressing heart health: do we have to target the gut microbiota?. 2015 , 18, 566-71	21
1681	Coenzyme Q10 consumption promotes ABCG1-mediated macrophage cholesterol efflux: a randomized, double-blind, placebo-controlled, cross-over study in healthy volunteers. 2015 , 59, 1725-34	10
1680	Rapid LC-MRM-MS assay for simultaneous quantification of choline, betaine, trimethylamine, trimethylamine N-oxide, and creatinine in human plasma and urine. 2015 , 36, 2207-2214	42
1679	Probiotic supplementation and trimethylamine-N-oxide production following a high-fat diet. 2015 , 23, 2357-63	79
1678	Emerging roles of flavin monooxygenase 3 in cholesterol metabolism and atherosclerosis. 2015 , 26, 426-31	42
1677	A plant-based diet, atherogenesis, and coronary artery disease prevention. 2015 , 19, 62-7	74
1676	ESR1 gene polymorphisms Pvull (rs2234693T>C) and Xbal (rs9340799A>G) may not be directly correlated with cardiovascular disease risk. 2015 , 14, 13932-44	5
1675	A Phospholipid-Protein Complex from Antarctic Krill Reduced Plasma Homocysteine Levels and Increased Plasma Trimethylamine-N-Oxide (TMAO) and Carnitine Levels in Male Wistar Rats. 2015 , 13, 5706-21	16
1674	Egg phospholipids and cardiovascular health. 2015 , 7, 2731-47	82
1673	Increased Intake of Foods with High Nutrient Density Can Help to Break the Intergenerational Cycle of Malnutrition and Obesity. 2015 , 7, 6016-37	42
1672	Role of gut microbiota in the modulation of atherosclerosis-associated immune response. 2015 , 6, 671	54
1671	Rumen microbial communities influence metabolic phenotypes in lambs. 2015 , 6, 1060	55
1670	The effect of diet and host genotype on ceca microbiota of Japanese quail fed a cholesterol enriched diet. 2015 , 6, 1092	13
1669	Metabolomic insights into the intricate gut microbial-host interaction in the development of obesity and type 2 diabetes. 2015 , 6, 1151	85
1668	Bioactive Egg Components and Inflammation. 2015 , 7, 7889-913	79
1667	Archaea in and on the Human Body: Health Implications and Future Directions. 2015 , 11, e1004833	77
1666	Mechanism of Prominent Trimethylamine Oxide (TMAO) Accumulation in Hemodialysis Patients. 2015 , 10, e0143731	59
1665	Non-celiac gluten sensitivity triggers gut dysbiosis, neuroinflammation, gut-brain axis dysfunction, and vulnerability for dementia. 2015 , 14, 110-31	46

1664	Variations of Tongue Coating Microbiota in Patients with Gastric Cancer. 2015 , 2015, 173729	34
1663	Intestinal Microbiota Metabolism and Atherosclerosis. 2015 , 128, 2805-11	22
1662	Gut microbiota and host metabolism in liver cirrhosis. 2015 , 21, 11597-608	68
1661	T3DB: the toxic exposome database. 2015 , 43, D928-34	162
1660	Plaque burden in HIV-infected patients is associated with serum intestinal microbiota-generated trimethylamine. 2015 , 29, 443-52	52
1659	Whole grains beyond fibre: what can metabolomics tell us about mechanisms?. 2015 , 74, 320-7	13
1658	Intestinal microbiota-related effects on graft-versus-host disease. 2015 , 101, 428-37	42
1657	Intestinal microbiota composition modulates choline bioavailability from diet and accumulation of the proatherogenic metabolite trimethylamine-N-oxide. 2015 , 6, e02481	389
1656	Novel methodologies for biomarker discovery in atherosclerosis. 2015 , 36, 2635-42	133
1655	Unraveling the environmental and genetic interactions in atherosclerosis: Central role of the gut microbiota. 2015 , 241, 387-99	55
1654	Nutrition and Atherosclerosis. 2015 , 46, 408-26	128
1653	Metabolomics in atherosclerosis. 2015 , 8, 26-30	6
1652	Research gaps in evaluating the relationship of meat and health. 2015 , 109, 86-95	73
1651	Gut microbiota of humans, dogs and cats: current knowledge and future opportunities and challenges. 2015 , 113 Suppl, S6-17	95
1650	TMAO is both a biomarker and a renal toxin. 2015 , 116, 396-7	21
1649	Choline and Betaine Intakes Are Not Associated with Cardiovascular Disease Mortality Risk in Japanese Men and Women. 2015 , 145, 1787-92	28
1648	Risks and benefits of carnitine supplementation in diabetes. 2015 , 123, 95-100	13
1647	New insight into the gut microbiome through metagenomics. 2015 , 77	7

1646	Metabolomics and renal disease. 2015 , 24, 371-9	30
1645	Mendelian randomization: where are we now and where are we going?. 2015 , 44, 379-88	99
1644	Antenatal Microbiome: Potential Contributor to Fetal Programming and Establishment of the Microbiome in Offspring. 2015 , 64, 306-19	5
1643	Microbiome in NAFLD and ALD. 2015 , 6, 55-58	12
1642	Non-lethal Inhibition of Gut Microbial Trimethylamine Production for the Treatment of Atherosclerosis. 2015 , 163, 1585-95	688
1641	Beneficial Microorganisms in Medical and Health Applications. 2015 ,	5
1640	Long-term risk of cardiovascular and cerebrovascular disease after removal of the colonic microbiota by colectomy: a cohort study based on the Danish National Patient Register from 1996 to 2014. 2015 , 5, e008702	8
1639	Globally Optimized Targeted Mass Spectrometry: Reliable Metabolomics Analysis with Broad Coverage. 2015 , 87, 12355-62	71
1638	A distributed cell division counter reveals growth dynamics in the gut microbiota. 2015 , 6, 10039	32
1637	Plasma choline, smoking, and long-term prognosis in patients with stable angina pectoris. 2015 , 22, 606-14	10
1636	Cell-to-Cell Transcript Variability: Seeing Signal in the Noise. 2015 , 163, 1566-8	5
1635	Risperidone-induced weight gain is mediated through shifts in the gut microbiome and suppression of energy expenditure. 2015 , 2, 1725-34	79
1634	Plasma levels of trimethylamine-N-oxide are confounded by impaired kidney function and poor metabolic control. 2015 , 243, 638-44	130
1633	Intervention Trials with the Mediterranean Diet in Cardiovascular Prevention: Understanding Potential Mechanisms through Metabolomic Profiling. 2015 , 146, 913S-919S	31
1632	Drug the Bug!. 2015 , 163, 1565-6	7
1631	Making the Leap from Research Laboratory to Clinic: Challenges and Opportunities for Next-Generation Sequencing in Infectious Disease Diagnostics. 2015 , 6, e01888-15	149
1630	The Role of Integrated Omics in Elucidating the Gut Microbiota Health Potentials. 2015 , 73-100	2
1629	GC-MS-based metabolomic analysis of human papillary thyroid carcinoma tissue. 2015 , 36, 1607-14	32

1628	Flavin containing monooxygenase 3 exerts broad effects on glucose and lipid metabolism and atherosclerosis. 2015 , 56, 22-37	209
1627	Identification of a second two-component signal transduction system that controls fosfomycin tolerance and glycerol-3-phosphate uptake. 2015 , 197, 861-71	5
1626	Intestinal microbiota-dependent phosphatidylcholine metabolites, diastolic dysfunction, and adverse clinical outcomes in chronic systolic heart failure. 2015 , 21, 91-6	204
1625	New aspects on the metabolic role of intestinal microbiota in the development of atherosclerosis. 2015 , 64, 476-81	31
1624	Does our gut microbiome predict cardiovascular risk? A review of the evidence from metabolomics. 2015 , 8, 187-91	65
1623	Metagenomic and metabolomic analysis of the toxic effects of trichloroacetamide-induced gut microbiome and urine metabolome perturbations in mice. 2015 , 14, 1752-61	45
1622	Perturbations of tyrosine metabolism promote the indolepyruvate pathway via tryptophan in host and microbiome. 2015 , 114, 431-7	33
1621	The gut microbial endocrine organ: bacterially derived signals driving cardiometabolic diseases. 2015 , 66, 343-59	240
1620	Modulation of the intestinal microbiota is associated with lower plasma cholesterol and weight gain in hamsters fed chardonnay grape seed flour. 2015 , 63, 1460-7	39
1619	The dynamics of the human infant gut microbiome in development and in progression toward type 1 diabetes. 2015 , 17, 260-73	639
1618	The TMAO-Generating Enzyme Flavin Monooxygenase 3 Is a Central Regulator of Cholesterol Balance. 2015 , 10, 326-338	244
1617	Dietary phosphatidylcholine intake and type 2 diabetes in men and women. 2015 , 38, e13-4	25
1616	Metabolomic tissue signature in human non-alcoholic fatty liver disease identifies protective candidate metabolites. 2015 , 35, 207-14	24
1615	Metabonomics and Gut Microbiota in Nutrition and Disease. 2015 ,	2
1614	Metabolomic applications in nutritional research: a perspective. 2015 , 95, 2567-70	16
1613	Food, immunity, and the microbiome. 2015 , 148, 1107-19	193
1612	An Apple a Day Keeps the Doctor Away ¶Inter-Relationship Between Apple Consumption, the Gut Microbiota and Cardiometabolic Disease Risk Reduction. 2015 , 173-194	5
1611	Metabolite profiling and cardiovascular event risk: a prospective study of 3 population-based cohorts. 2015 , 131, 774-85	367

1610	Danger signaling in atherosclerosis. 2015 , 116, 323-40	59
1609	Metabolomics and diabetes: analytical and computational approaches. 2015 , 64, 718-32	110
1608	Diet and upper gastrointestinal malignancies. 2015 , 148, 1234-1243.e4	59
1607	Metabolomics: A Tool Ahead for Understanding Molecular Mechanisms of Drugs and Diseases. 2015 , 30, 247-54	19
1606	Transmission of atherosclerosis susceptibility with gut microbial transplantation. 2015 , 290, 5647-60	294
1605	Development and validation of a simple UHPLC-MS/MS method for the simultaneous determination of trimethylamine N-oxide, choline, and betaine in human plasma and urine. 2015 , 109, 128-35	44
1604	Metabolomics investigation to shed light on cheese as a possible piece in the French paradox puzzle. 2015 , 63, 2830-9	73
1603	Drugging the gut microbiome. 2015 , 33, 228-31	40
1602	Metabolomics in the developmental origins of obesity and its cardiometabolic consequences. 2015 , 6, 65-78	35
1601	Can we trust untargeted metabolomics? Results of the metabo-ring initiative, a large-scale, multi-instrument inter-laboratory study. 2015 , 11, 807-821	84
1600	Microbiology of Oral Biofilm-Dependent Diseases: Have We Made Significant Progress to Understand and Treat These Diseases?. 2015 , 2, 37-47	9
1599	The triglyceride-lowering effect of supplementation with dual probiotic strains, <i>Lactobacillus curvatus</i> HY7601 and <i>Lactobacillus plantarum</i> KY1032: Reduction of fasting plasma lysophosphatidylcholines in nondiabetic and hypertriglyceridemic subjects. 2015 , 25, 724-33	24
1598	¹ H NMR-based metabolomics of the protective effect of <i>Curcuma longa</i> and curcumin on cinnabar-induced hepatotoxicity and nephrotoxicity in rats. 2015 , 17, 459-467	22
1597	Black Currant Anthocyanins Attenuate Weight Gain and Improve Glucose Metabolism in Diet-Induced Obese Mice with Intact, but Not Disrupted, Gut Microbiome. 2015 , 63, 6172-80	101
1596	The Relationship Between Trimethylamine-N-Oxide and Prevalent Cardiovascular Disease in a Multiethnic Population Living in Canada. 2015 , 31, 1189-94	93
1595	Roux-en-Y Gastric Bypass and Vertical Banded Gastroplasty Induce Long-Term Changes on the Human Gut Microbiome Contributing to Fat Mass Regulation. 2015 , 22, 228-38	489
1594	Transforming berberine into its intestine-absorbable form by the gut microbiota. 2015 , 5, 12155	127
1593	Pyridoxine supplementation does not alter in vivo kinetics of one-carbon metabolism but modifies patterns of one-carbon and tryptophan metabolites in vitamin B-6-insufficient oral contraceptive users. 2015 , 102, 616-25	8

1592	Metagenomic surveys of gut microbiota. 2015 , 13, 148-58	57
1591	Listening to Our Gut: Contribution of Gut Microbiota and Cardiovascular Risk in Diabetes Pathogenesis. 2015 , 15, 63	17
1590	Contribution of proteomics to the management of vascular disorders. 2015 , 7, 3-14	2
1589	Trimethylamine N-Oxide From Gut Microbiota in Chronic Kidney Disease Patients: Focus on Diet. 2015 , 25, 459-65	35
1588	The microbiome at the pulmonary alveolar niche and its role in Mycobacterium tuberculosis infection. 2015 , 95, 651-658	37
1587	The dormant blood microbiome in chronic, inflammatory diseases. 2015 , 39, 567-91	236
1586	Metagenomics of the human intestinal tract: from who is there to what is done there. 2015 , 4, 64-68	8
1585	Methyl-βbutyrobetaine decreases levels of acylcarnitines and attenuates the development of atherosclerosis. 2015 , 72, 101-7	10
1584	Targeted plasma metabolome response to variations in dietary glycemic load in a randomized, controlled, crossover feeding trial in healthy adults. 2015 , 6, 2949-56	36
1583	A gut feeling about immunity. 2015 , 21, 674-6	7
1582	Metabolism of Chinese Materia Medica in Gut Microbiota and Its Biological Effects. 2015 , 7, 109-115	4
1581	Vitamin B12 modulates the transcriptome of the skin microbiota in acne pathogenesis. 2015 , 7, 293ra103	87
1580	Molecular methods for studying methanogens of the human gastrointestinal tract: current status and future directions. 2015 , 99, 5801-15	14
1579	About the gut microbiome as a pharmacological target in atherosclerosis. 2015 , 763, 75-8	7
1578	Supplements and Cardiovascular Health. 2015 , 24, 736-9	2
1577	Effects of choline on health across the life course: a systematic review. 2015 , 73, 500-22	59
1576	Physiology and pathophysiology of liver lipid metabolism. 2015 , 9, 1055-67	50
1575	Gut-liver axis, nutrition, and non-alcoholic fatty liver disease. 2015 , 48, 923-30	165

1574	Effect of <i>Lactobacillus casei</i> Shirota supplementation on trimethylamine-N-oxide levels in patients with metabolic syndrome: An open-label, randomized study. 2015 , 242, 141-4	47
1573	Dietary Modulation of Gut Microbiota Contributes to Alleviation of Both Genetic and Simple Obesity in Children. 2015 , 2, 968-84	198
1572	Structure and Function of CutC Choline Lyase from Human Microbiota Bacterium <i>Klebsiella pneumoniae</i> . 2015 , 290, 21732-40	54
1571	The promise of metabolic phenotyping in gastroenterology and hepatology. 2015 , 12, 458-71	48
1570	Dynamic metabonomic and microbiological response of rats to lincomycin exposure: an integrated microbiology and metabonomics analysis. 2015 , 5, 65415-65426	6
1569	Developmental Regulation of Drug-Processing Genes in Livers of Germ-Free Mice. 2015 , 147, 84-103	58
1568	Maternal Choline Status, but Not Fetal Genotype, Influences Cord Plasma Choline Metabolite Concentrations. 2015 , 145, 1491-7	25
1567	Trimethylamine-N-oxide: A Novel Biomarker for the Identification of Inflammatory Bowel Disease. 2015 , 60, 3620-30	39
1566	Population Level Divergence from the Mediterranean Diet and the Risk of Cancer and Metabolic Disease. 2015 , 209-223	1
1565	Lipidomic analysis of plasma lipoprotein fractions in myocardial infarction-prone rabbits. 2015 , 120, 476-82	29
1564	TMAO: A small molecule of great expectations. 2015 , 31, 1317-23	172
1563	Associations of Trimethylamine N-Oxide With Nutritional and Inflammatory Biomarkers and Cardiovascular Outcomes in Patients New to Dialysis. 2015 , 25, 351-6	112
1562	The Influence of the Gut Microbiome on Obesity, Metabolic Syndrome and Gastrointestinal Disease. 2015 , 6, e91	141
1561	Gut microbiome, gut function, and probiotics: Implications for health. 2015 , 34, 93-107	19
1560	Fat, fibre and cancer risk in African Americans and rural Africans. 2015 , 6, 6342	534
1559	Sequencing and beyond: integrating molecular 'omics' for microbial community profiling. 2015 , 13, 360-72	394
1558	Integrated metabolomics and genomics: systems approaches to biomarkers and mechanisms of cardiovascular disease. 2015 , 8, 410-9	55
1557	The genetic basis of peripheral arterial disease: current knowledge, challenges, and future directions. 2015 , 116, 1551-60	51

1556	Dietary allicin reduces transformation of L-carnitine to TMAO through impact on gut microbiota. 2015 , 15, 408-417	42
1555	Probiotics. 2015 , 61, 259-90	28
1554	Metabolomics - the complementary field in systems biology: a review on obesity and type 2 diabetes. 2015 , 11, 1742-74	76
1553	Urinary metabolic signatures of human adiposity. 2015 , 7, 285ra62	141
1552	The role of the gut microbiota in metabolic health. 2015 , 29, 3111-23	120
1551	Isolation and characterization of a tetramethylammonium-degrading Methanococcoides strain and a novel glycine betaine-utilizing Methanobrevibacter strain. 2015 , 197, 197-209	17
1550	Volatile Organic Compounds in Urine for Noninvasive Diagnosis of Malignant Biliary Strictures: A Pilot Study. 2015 , 60, 2150-7	17
1549	The Pregnancy Exposome. 2015 , 2, 204-13	55
1548	The mechanism by which moderate alcohol consumption influences coronary heart disease. 2015 , 14, 33	26
1547	How do high glycemic load diets influence coronary heart disease?. 2015 , 12, 6	12
1546	The gut microbiome in cardio-metabolic health. 2015 , 7, 33	78
1545	Identification of diagnostic biomarkers and metabolic pathway shifts of heat-stressed lactating dairy cows. 2015 , 125, 17-28	58
1544	Understanding the Benefits of Bariatric Surgery on Gut Physiology: Implications for Obesity, Type 2 Diabetes, and Cardiovascular Disease. 2015 , 343-370	
1543	Circadian metabolism in the light of evolution. 2015 , 36, 289-304	85
1542	Nutri(meta)genetics and cardiovascular disease: novel concepts in the interaction of diet and genomic variation. 2015 , 17, 505	9
1541	Gut Microbiota and Metabolic Diseases: From Pathogenesis to Therapeutic Perspective. 2015 , 199-234	5
1540	Prediction of Gestational Diabetes through NMR Metabolomics of Maternal Blood. 2015 , 14, 2696-706	52
1539	Myricetin derived from Hovenia dulcis Thunb. ameliorates vascular endothelial dysfunction and liver injury in high choline-fed mice. 2015 , 6, 1620-34	30

1538	Determination of trimethylamine-N-oxide in combination with L-carnitine and βbutyrobetaine in human plasma by UPLC/MS/MS. 2015 , 29, 1670-4	26
1537	MS-DIAL: data-independent MS/MS deconvolution for comprehensive metabolome analysis. 2015 , 12, 523-6	1036
1536	A new model of reverse cholesterol transport: enTICEing strategies to stimulate intestinal cholesterol excretion. 2015 , 36, 440-51	47
1535	Neuroprotective effect of oral choline administration after global brain ischemia in rats. 2015 , 18, 265-74	7
1534	Towards a more comprehensive concept for prebiotics. 2015 , 12, 303-10	490
1533	The gut microbiome in health and in disease. 2015 , 31, 69-75	721
1532	The immunity-diet-microbiota axis in the development of metabolic syndrome. 2015 , 26, 73-81	30
1531	Formate metabolism in fetal and neonatal sheep. 2015 , 308, E921-7	24
1530	Fate, activity, and impact of ingested bacteria within the human gut microbiota. 2015 , 23, 354-66	322
1529	A microbiological revolution meets an ancient disease: improving the management of tuberculosis with genomics. 2015 , 28, 523-39	30
1528	Oral L-carnitine supplementation increases trimethylamine-N-oxide but reduces markers of vascular injury in hemodialysis patients. 2015 , 65, 289-95	55
1527	A review of potential metabolic etiologies of the observed association between red meat consumption and development of type 2 diabetes mellitus. 2015 , 64, 768-79	85
1526	Gut Microbiome and Obesity: A Plausible Explanation for Obesity. 2015 , 4, 250-61	106
1525	Flavin-containing monooxygenase 3 as a potential player in diabetes-associated atherosclerosis. 2015 , 6, 6498	219
1524	i-Motifs are more stable than G-quadruplexes in a hydrated ionic liquid. 2015 , 51, 6909-12	26
1523	Fish oil ameliorates trimethylamine N-oxide-exacerbated glucose intolerance in high-fat diet-fed mice. 2015 , 6, 1117-25	36
1522	Administration of Lactobacillus helveticus NS8 improves behavioral, cognitive, and biochemical aberrations caused by chronic restraint stress. 2015 , 310, 561-77	353
1521	Subchronic Exposure of Mice to Cadmium Perturbs Their Hepatic Energy Metabolism and Gut Microbiome. 2015 , 28, 2000-9	126

1520	Agave Inulin Supplementation Affects the Fecal Microbiota of Healthy Adults Participating in a Randomized, Double-Blind, Placebo-Controlled, Crossover Trial. 2015 , 145, 2025-32	72
1519	Structure and Inhibition of Microbiome β -Glucuronidases Essential to the Alleviation of Cancer Drug Toxicity. 2015 , 22, 1238-49	141
1518	An integrated metabonomics and microbiology analysis of host-microbiota metabolic interactions in rats with <i>Coptis chinensis</i> -induced diarrhea. 2015 , 5, 79329-79341	17
1517	Bioinformatic characterization of glycol radical enzyme-associated bacterial microcompartments. 2015 , 81, 8315-29	41
1516	Oral microbiota in patients with atherosclerosis. 2015 , 243, 573-8	68
1515	The Progress of Metabolomics Study in Traditional Chinese Medicine Research. 2015 , 43, 1281-310	23
1514	Impact of Gut Microbiota on Obesity, Diabetes, and Cardiovascular Disease Risk. 2015 , 17, 120	93
1513	Arsenic induces structural and compositional colonic microbiome change and promotes host nitrogen and amino acid metabolism. 2015 , 289, 397-408	47
1512	Linking Microbiota to Human Diseases: A Systems Biology Perspective. 2015 , 26, 758-770	98
1511	Microbiota-Dependent Hepatic Lipogenesis Mediated by Stearoyl CoA Desaturase 1 (SCD1) Promotes Metabolic Syndrome in TLR5-Deficient Mice. 2015 , 22, 983-96	102
1510	Discovery of nutritional biomarkers: future directions based on omics technologies. 2015 , 66 Suppl 1, S31-40	18
1509	Dietary protein and fiber in end stage renal disease. 2015 , 28, 75-80	12
1508	Genetic and environmental control of host-gut microbiota interactions. 2015 , 25, 1558-69	199
1507	Protective effects of tartary buckwheat flavonoids on high TMAO diet-induced vascular dysfunction and liver injury in mice. 2015 , 6, 3359-72	36
1506	Intersections Between Microbiome and Heart Failure: Revisiting the Gut Hypothesis. 2015 , 21, 973-80	118
1505	Measurement of the abundance of choline and the distribution of choline-containing moieties in meat. 2015 , 66, 743-8	8
1504	Contribution of Gut Bacteria to Lipid Levels: Another Metabolic Role for Microbes?. 2015 , 117, 750-4	25
1503	Monitoring the Response of the Human Urinary Metabolome to Brief Maximal Exercise by a Combination of RP-UPLC-MS and $(1)H$ NMR Spectroscopy. 2015 , 14, 4610-22	32

1502	Metabolic profiling in human exposome studies. 2015 , 30, 755-62	33
1501	Determining conserved metabolic biomarkers from a million database queries. 2015 , 31, 3721-4	7
1500	Functional metagenomic discovery of bacterial effectors in the human microbiome and isolation of commendamide, a GPCR G2A/132 agonist. 2015 , 112, E4825-34	103
1499	Review: Mechanisms of How the Intestinal Microbiota Alters the Effects of Drugs and Bile Acids. 2015 , 43, 1505-21	129
1498	Diacetylspermine Is a Novel Prediagnostic Serum Biomarker for Non-Small-Cell Lung Cancer and Has Additive Performance With Pro-Surfactant Protein B. 2015 , 33, 3880-6	69
1497	Polyphenol metabolome in human urine and its association with intake of polyphenol-rich foods across European countries. 2015 , 102, 905-13	100
1496	Microbiology Meets Big Data: The Case of Gut Microbiota-Derived Trimethylamine. 2015 , 69, 305-21	94
1495	Analysis of the intestinal microbial community structure of healthy and long-living elderly residents in Gaotian Village of Liuyang City. 2015 , 99, 9085-95	35
1494	Characterization and detection of a widely distributed gene cluster that predicts anaerobic choline utilization by human gut bacteria. 2015 , 6,	114
1493	Xenobiotics: Interaction with the Intestinal Microflora. 2015 , 56, 218-27	69
1492	Plant protein and animal proteins: do they differentially affect cardiovascular disease risk?. 2015 , 6, 712-28	127
1491	Metabolomic study on the faecal extracts of atherosclerosis mice and its application in a Traditional Chinese Medicine. 2015 , 1007, 140-8	7
1490	The relationship between early-life environment, the epigenome and the microbiota. 2015 , 7, 1173-84	22
1489	Choline supplementation in children with fetal alcohol spectrum disorders: a randomized, double-blind, placebo-controlled trial. 2015 , 102, 1113-25	66
1488	Dietary Fiber-Induced Improvement in Glucose Metabolism Is Associated with Increased Abundance of Prevotella. 2015 , 22, 971-82	748
1487	Plasma and liver metabolic profiles in mice subjected to subchronic and mild social defeat stress. 2015 , 14, 1025-32	19
1486	Gut MicrobiotaImmune System Crosstalk. 2015 , 127-137	2
1485	MetMSLine: an automated and fully integrated pipeline for rapid processing of high-resolution LC-MS metabolomic datasets. 2015 , 31, 788-90	21

1484	Standardised animal models of host microbial mutualism. 2015 , 8, 476-86	94
1483	Effects of egg ingestion on endothelial function in adults with coronary artery disease: a randomized, controlled, crossover trial. 2015 , 169, 162-9	30
1482	Fiber supplementation influences phylogenetic structure and functional capacity of the human intestinal microbiome: follow-up of a randomized controlled trial. 2015 , 101, 55-64	93
1481	Relationship Between Hematocrit Level and Cardiovascular Risk Factors in a Community-Based Population. 2015 , 29, 289-93	14
1480	Promotion of atherosclerosis by <i>Helicobacter cinaedi</i> infection that involves macrophage-driven proinflammatory responses. 2014 , 4, 4680	34
1479	Microbiota-dependent metabolite trimethylamine-N-oxide is associated with disease severity and survival of patients with chronic heart failure. 2015 , 277, 717-26	253
1478	Toward the comprehensive understanding of the gut ecosystem via metabolomics-based integrated omics approach. 2015 , 37, 5-16	38
1477	Obesity--a disease with many aetiologies disguised in the same oversized phenotype: has the overeating theory failed?. 2015 , 30, 1656-64	17
1476	Variation of betaine, N,N-dimethylglycine, choline, glycerophosphorylcholine, taurine and trimethylamine-N-oxide in the plasma and urine of overweight people with type 2 diabetes over a two-year period. 2015 , 52, 352-60	45
1475	Metabolomics analysis reveals insights into biochemical mechanisms of mental stress-induced left ventricular dysfunction. 2015 , 11, 571-582	14
1474	Mass-spectrometry-based microbial metabolomics: recent developments and applications. 2015 , 407, 669-80	42
1473	Bacterial microcompartments and the modular construction of microbial metabolism. 2015 , 23, 22-34	124
1472	Disturbed flow induces systemic changes in metabolites in mouse plasma: a metabolomics study using ApoE ^{0/0} mice with partial carotid ligation. 2015 , 308, R62-72	35
1471	Gut microbiota-dependent trimethylamine N-oxide (TMAO) pathway contributes to both development of renal insufficiency and mortality risk in chronic kidney disease. 2015 , 116, 448-55	627
1470	Epigenetic Regulation of Gastrointestinal Epithelial Barrier and Developmental Origins of Health and Disease. 2016 , 337-360	2
1469	Methane matters: from blue-tinged moos, to boozy roos, and the health of humans too. 2016 , 6, 15-21	1
1468	Comparative Study of EPA-enriched Phosphatidylcholine and EPA-enriched Phosphatidylserine on Lipid Metabolism in Mice. 2016 , 65, 593-602	20
1467	Role of Gut Microbiota in Cardiovascular Disease that Links to Host Genotype and Diet. 2016 ,	1

1466	Genetic Variant in Flavin-Containing Monooxygenase 3 Alters Lipid Metabolism in Laying Hens in a Diet-Specific Manner. 2016 , 12, 1382-1393	7
1465	Microbiome-Linked Crosstalk in the Gastrointestinal Exposome towards Host Health and Disease. 2016 , 19, 221-228	14
1464	Xenobiotic Receptor-Mediated Regulation of Intestinal Barrier Function and Innate Immunity. 2016 , 3,	23
1463	Effects of vegetarian diets on blood pressure. 2016 , 57	2
1462	Vascular Damage in Patients with Nonalcoholic Fatty Liver Disease: Possible Role of Iron and Ferritin. 2016 , 17,	6
1461	Correlating the Gut Microbiome to Health and Disease. 2016 , 261-291	4
1460	A Systematic Evaluation of Blood Serum and Plasma Pre-Analytics for Metabolomics Cohort Studies. 2016 , 17,	42
1459	Metagenomic data-mining reveals contrasting microbial populations responsible for trimethylamine formation in human gut and marine ecosystems. 2016 , 2, e000080	35
1458	Gut microbiota [a new companion on the path of cardiovascular diseases progression: surprising roles of long-time neighbors. 2016 , 12, 66-71	4
1457	Probiotics and blood pressure: current insights. 2016 , 9, 33-42	36
1456	A Metagenomic Insight Into the Human Microbiome. 2016 , 107-119	12
1455	Population Screening for Biological and Environmental Properties of the Human Metabolic Phenotype. 2016 , 167-211	18
1454	Lifestyle Choices, Risk Factors, and Cardiovascular Disease. 2016 , 97-118	
1453	The New Era of Treatment for Obesity and Metabolic Disorders: Evidence and Expectations for Gut Microbiome Transplantation. 2016 , 6, 15	45
1452	Mucosal Interactions between Genetics, Diet, and Microbiome in Inflammatory Bowel Disease. 2016 , 7, 290	74
1451	Unraveling the Functions of the Macroalgal Microbiome. 2015 , 6, 1488	35
1450	High Molecular Weight Barley [Glucan Alters Gut Microbiota Toward Reduced Cardiovascular Disease Risk. 2016 , 7, 129	101
1449	Impact of the Consumption of Tea Polyphenols on Early Atherosclerotic Lesion Formation and Intestinal in High-Fat-Fed ApoE Mice. 2016 , 3, 42	30

1448	Gut Microbiota and Nonalcoholic Fatty Liver Disease: Insights on Mechanism and Application of Metabolomics. 2016 , 17, 300	49
1447	The Metabolic Role of Gut Microbiota in the Development of Nonalcoholic Fatty Liver Disease and Cardiovascular Disease. 2016 , 17,	42
1446	Probiotics and Prebiotics: Present Status and Future Perspectives on Metabolic Disorders. 2016 , 8, 173	178
1445	Nutrition, One-Carbon Metabolism and Neural Tube Defects: A Review. 2016 , 8,	39
1444	Analysis of Gut Microbiota in Coronary Artery Disease Patients: a Possible Link between Gut Microbiota and Coronary Artery Disease. 2016 , 23, 908-21	141
1443	Gut Microbiota and Coronary Artery Disease. 2016 , 57, 663-671	37
1442	[Programs for Continuing Medical Education: B session; 1. Pathogenesis of atherosclerosis and an approach to reduce cardiovascular events]. 2016 , 105, 471-6	
1441	The Role of the Gut Microbiome on Chronic Kidney Disease. 2016 , 96, 65-94	51
1440	Association between Polycystic Ovary Syndrome and Gut Microbiota. 2016 , 11, e0153196	115
1439	Modulating the Gut Microbiota Improves Glucose Tolerance, Lipoprotein Profile and Atherosclerotic Plaque Development in ApoE-Deficient Mice. 2016 , 11, e0146439	31
1438	Genetic Factors Are Not the Major Causes of Chronic Diseases. 2016 , 11, e0154387	120
1437	Trimethylamine N-Oxide: The Good, the Bad and the Unknown. 2016 , 8,	228
1436	Raised Cecal Veillonella (Firmicutes)/S 24-7 (Bacteroidetes) May Not Cause Salt-Sensitive Hypertension. 2016 , 7, 118	
1435	Metabolic Effects of a 24-Week Energy-Restricted Intervention Combined with Low or High Dairy Intake in Overweight Women: An NMR-Based Metabolomics Investigation. 2016 , 8, 108	28
1434	Metabolomics in nutrition research-a powerful window into nutritional metabolism. 2016 , 60, 451-458	18
1433	. 2016 ,	8
1432	Trimethylamine-N-oxide: a link between the gut microbiome, bile acid metabolism, and atherosclerosis. 2016 , 27, 148-54	44
1431	Gut associated bacteria are critical to metabolism, inflammation and health. 2016 , 19, 245-9	8

1430	Microbiota-Dependent Marker TMAO is Not Associated With Decreased Myocardial Perfusion in Well-Treated HIV-Infected Patients as Assessed by 82Rubidium PET/CT. 2016 , 72, e83-5	9
1429	The human gut microbiota and its interactive connections to diet. 2016 , 29, 539-46	40
1428	Omics-based approaches to understand mechanosensitive endothelial biology and atherosclerosis. 2016 , 8, 378-401	12
1427	Metabolic routes along digestive system of licorice: multicomponent sequential metabolism method in rat. 2016 , 30, 902-12	7
1426	Diet-microbiota interactions as moderators of human metabolism. <i>Nature</i> , 2016 , 535, 56-64	50.4 1086
1425	The microbiome and innate immunity. <i>Nature</i> , 2016 , 535, 65-74	50.4 949
1424	Gut microbiome in chronic kidney disease. 2016 , 101, 471-7	52
1423	Trimethylamine and Trimethylamine N-Oxide, a Flavin-Containing Monooxygenase 3 (FMO3)-Mediated Host-Microbiome Metabolic Axis Implicated in Health and Disease. 2016 , 44, 1839-1850	181
1422	Care of inflammatory bowel disease patients in remission. 2016 , 4, 261-271	11
1421	Roles of Brain Lipids in Glial Activation. 2016 , 6, 61-67	
1420	Urinary N-methylnicotinamide and β-aminoisobutyric acid predict catch-up growth in undernourished Brazilian children. 2016 , 6, 19780	41
1419	Dietary cholesterol and egg yolk should be avoided by patients at risk of vascular disease. 2016 , 4, 20-24	18
1418	Dietary metabolism, gut microbiota and acute heart failure. 2016 , 102, 813-4	7
1417	Crystal structure of new carboxylate phosphobetaines and phosphonium salts conjugated with them. 2016 , 65, 1313-1318	5
1416	Meta-analysis of clinical metabolic profiling studies in cancer: challenges and opportunities. 2016 , 8, 1134-1142	57
1415	Trimethylamine N-Oxide and Mortality Risk in Patients With Peripheral Artery Disease. 2016 , 5,	100
1414	Diets high in resistant starch increase plasma levels of trimethylamine-N-oxide, a gut microbiome metabolite associated with CVD risk. 2016 , 116, 2020-2029	61
1413	Impact of L-carnitine on plasma lipoprotein(a) concentrations: A systematic review and meta-analysis of randomized controlled trials. 2016 , 6, 19188	38

1412	The Microbiome and the Liver: The Basics. 2016 , 36, 299-305	10
1411	Adaptive immunity against gut microbiota enhances apoE-mediated immune regulation and reduces atherosclerosis and western-diet-related inflammation. 2016 , 6, 29353	19
1410	The Human Intestinal Microbiome in Health and Disease. 2016 , 375, 2369-2379	1429
1409	Microbial Modulation of a Uremic Toxin. 2016 , 20, 691-692	2
1408	Ischemia/Reperfusion. 2016 , 7, 113-170	354
1407	Human microbiome as therapeutic intervention target to reduce cardiovascular disease risk. 2016 , 27, 615-622	25
1406	Serum Metabolite Profiling for the Detection of Pancreatic Cancer: Results of a Large Independent Validation Study. 2016 , 45, 1418-1423	18
1405	Metabolite-Affected Interfacial Electrostatics and Its Role in the Pathogenesis of Cardiovascular Disease: An Interface-Selective Vibrational Spectroscopic Study. 2016 , 120, 21642-21651	4
1404	Dietary Reference Values for choline. 2016 , 14, e04484	38
1403	Use of the "Exposome" in the Practice of Epidemiology: A Primer on -Omic Technologies. 2016 , 184, 302-14	57
1402	Intestinal Microbiome and Atherosclerosis - Authors' Reply. 2016 , 13, 19-20	3
1401	Diétiqne: une arme ¶haut niveau de preuve dans l'arsenal du cardiologue. 2016 , 2016, 10-12	3
1400	A multiplexed targeted assay for high-throughput quantitative analysis of serum methylamines by ultra performance liquid chromatography coupled to high resolution mass spectrometry. 2016 , 597, 12-20	11
1399	Mediterranean Diet. 2016 ,	2
1398	Metabolic syndrome and dairy product consumption: Where do we stand?. 2016 , 89, 1077-1084	7
1397	Plasma Trimethylamine N-Oxide, a Gut Microbe-Generated Phosphatidylcholine Metabolite, Is Associated With Atherosclerotic Burden. 2016 , 67, 2620-8	144
1396	Can Fishy Odor Be a Risk Factor for Coronary Artery Disease?. 2016 , 67, 2629-30	1
1395	The complex metabolism of trimethylamine in humans: endogenous and exogenous sources. 2016 , 18, e8	44

1394	New Insight into the Dietary Cause of Atherosclerosis: Implications for Pharmacology. 2016 , 358, 103-8	15
1393	Hypertension as an autoimmune and inflammatory disease. 2016 , 39, 567-73	100
1392	Dioxin-like pollutants increase hepatic flavin containing monooxygenase (FMO3) expression to promote synthesis of the pro-atherogenic nutrient biomarker trimethylamine N-oxide from dietary precursors. 2016 , 33, 145-53	24
1391	Advanced chronic kidney disease populations have elevated trimethylamine N-oxide levels associated with increased cardiovascular events. 2016 , 89, 1144-1152	105
1390	Resveratrol Attenuates Trimethylamine-N-Oxide (TMAO)-Induced Atherosclerosis by Regulating TMAO Synthesis and Bile Acid Metabolism via Remodeling of the Gut Microbiota. 2016 , 7, e02210-15	357
1389	Atherosclerosis and aortic aneurysm - is inflammation a common denominator?. 2016 , 283, 1636-52	65
1388	The Plot Thickens: Diet Microbe Interactions May Modulate Thrombosis Risk. 2016 , 23, 573-5	7
1387	Pharmacokinetic variations in cancer patients with liver dysfunction: applications and challenges of pharmacometabolomics. 2016 , 78, 465-89	5
1386	Effects of Mediterranean Diet on the Metabolome. 2016 , 121-137	0
1385	Assessing Cardiac Metabolism: A Scientific Statement From the American Heart Association. 2016 , 118, 1659-701	142
1384	Major Increase in Microbiota-Dependent Proatherogenic Metabolite TMAO One Year After Bariatric Surgery. 2016 , 14, 197-201	43
1383	Nutrigenomics, the Microbiome, and Gene-Environment Interactions: New Directions in Cardiovascular Disease Research, Prevention, and Treatment: A Scientific Statement From the American Heart Association. 2016 , 9, 291-313	66
1382	Strain-level dissection of the contribution of the gut microbiome to human metabolic disease. 2016 , 8, 41	59
1381	Human metabolic responses to microgravity simulated in a 45-day 6° head-down tilt bed rest (HDBR) experiment. 2016 , 8, 4334-4344	5
1380	Evidence for a distinct gut microbiome in kidney stone formers compared to non-stone formers. 2016 , 44, 399-407	81
1379	From Sample to Multi-Omics Conclusions in under 48 Hours. 2016 , 1,	45
1378	Akkermansia Muciniphila Protects Against Atherosclerosis by Preventing Metabolic Endotoxemia-Induced Inflammation in Apoe ^{-/-} Mice. 2016 , 133, 2434-46	340
1377	Translational and emerging clinical applications of metabolomics in cardiovascular disease diagnosis and treatment. 2016 , 23, 1578-89	36

1376	Diabetes is Associated with Higher Trimethylamine N-oxide Plasma Levels. 2016 , 124, 251-6	130
1375	Human Platelets Utilize Cyclooxygenase-1 to Generate Dioxolane A3, a Neutrophil-activating Eicosanoid. 2016 , 291, 13448-64	13
1374	Microbiome therapeutics - Advances and challenges. 2016 , 105, 44-54	140
1373	Effect of Trimethylamine N-Oxide on Interfacial Electrostatics at Phospholipid Monolayer-Water Interfaces and Its Relevance to Cardiovascular Disease. 2016 , 7, 1704-8	28
1372	Microbial metabolism of dietary components to bioactive metabolites: opportunities for new therapeutic interventions. 2016 , 8, 46	277
1371	Antibiotic-Induced Changes in the Intestinal Microbiota and Disease. 2016 , 22, 458-478	399
1370	Long-term activation of the innate immune system in atherosclerosis. 2016 , 28, 384-93	58
1369	The Gut Microbiota and their Metabolites: Potential Implications for the Host Epigenome. 2016 , 902, 33-44	38
1368	Linking the Microbiota, Chronic Disease, and the Immune System. 2016 , 27, 831-843	138
1367	Gut Microbiota Promote Angiotensin II-Induced Arterial Hypertension and Vascular Dysfunction. 2016 , 5,	197
1366	The gut microbiome in human immunodeficiency virus infection. 2016 , 14, 83	62
1365	Removal of uremic toxins by renal replacement therapies: a review of current progress and future perspectives. 2016 , 2,	30
1364	Nutritional interventions in primary mitochondrial disorders: Developing an evidence base. 2016 , 119, 187-206	33
1363	Nutrition challenges ahead. 2016 , 14, e00504	5
1362	Ambient Air Pollution Is Associated With the Severity of Coronary Atherosclerosis and Incident Myocardial Infarction in Patients Undergoing Elective Cardiac Evaluation. 2016 , 5,	35
1361	The metabolome 18 years on: a concept comes of age. 2016 , 12, 148	65
1360	Signals from the gut microbiota to distant organs in physiology and disease. 2016 , 22, 1079-1089	622
1359	Molecular Basis of C-N Bond Cleavage by the Glycyl Radical Enzyme Choline Trimethylamine-Lyase. 2016 , 23, 1206-1216	41

1358	The Gut Microbiome as Therapeutic Target in Central Nervous System Diseases: Implications for Stroke. 2016 , 13, 762-774	65
1357	Efficient respiration on TMAO requires TorD and TorE auxiliary proteins in <i>Shewanella oneidensis</i> . 2016 , 167, 630-637	12
1356	Body mass index: Has epidemiology started to break down causal contributions to health and disease?. 2016 , 24, 1630-8	14
1355	Processed meat: the real villain?. 2016 , 75, 233-41	42
1354	The gut microbiota. 2016 , 351-359	2
1353	The gut microbiota. 2016 , 55-66	0
1352	Non-alcoholic fatty liver and the gut microbiota. 2016 , 5, 782-94	140
1351	Obesity, Type 2 Diabetes, and the Metabolic Syndrome: Pathophysiologic Relationships and Guidelines for Surgical Intervention. 2016 , 96, 681-701	25
1350	The gut microbiota and metabolic disease: current understanding and future perspectives. 2016 , 280, 339-49	150
1349	Coronary changes in the Atlantic salmon <i>Salmo salar</i> L: characterization and impact of dietary fatty acid compositions. 2016 , 39, 41-54	5
1348	Immune dysregulation mediated by the oral microbiome: potential link to chronic inflammation and atherosclerosis. 2016 , 280, 114-28	71
1347	The enteric microbiome in hepatobiliary health and disease. 2016 , 36, 480-7	22
1346	Towards understanding brain-gut-microbiome connections in Alzheimer's disease. 2016 , 10 Suppl 3, 63	92
1345	Trimethylamine-N-oxide (TMAO) predicts fatal outcomes in community-acquired pneumonia patients without evident coronary artery disease. 2016 , 36, 67-73	28
1344	Gut microbiota in renal physiology: focus on short-chain fatty acids and their receptors. 2016 , 90, 1191-1198	69
1343	Quantitative Metabolomic Profiling of Plasma, Urine, and Liver Extracts by H NMR Spectroscopy Characterizes Different Stages of Atherosclerosis in Hamsters. 2016 , 15, 3500-3510	20
1342	The gut microbiota: A treasure for human health. 2016 , 34, 1210-1224	108
1341	Diet and Gut Microbial Function in Metabolic and Cardiovascular Disease Risk. 2016 , 16, 93	23

1340	Das Mikrobiom bei chronischen Erkrankungen. 2016 , 12, 420-427	1
1339	Coronary Plaque Characterization Assessed by Optical Coherence Tomography and Plasma Trimethylamine-N-oxide Levels in Patients With Coronary Artery Disease. 2016 , 118, 1311-1315	42
1338	Potential role of metabolomics in the improvement of research on traditional African medicine. 2016 , 17, 270-277	9
1337	Global metabolic changes induced by plant-derived pyrrolizidine alkaloids following a human poisoning outbreak and in a mouse model. 2016 , 5, 1594-1603	
1336	Gallstones and Risk of Coronary Heart Disease: Prospective Analysis of 270 000 Men and Women From 3 US Cohorts and Meta-Analysis. 2016 , 36, 1997-2003	17
1335	Bowel Movement Frequency, Laxative Use, and Mortality From Coronary Heart Disease and Stroke Among Japanese Men and Women: The Japan Collaborative Cohort (JACC) Study. 2016 , 26, 242-8	23
1334	Diet-Microbiota Interactions Mediate Global Epigenetic Programming in Multiple Host Tissues. 2016 , 64, 982-992	280
1333	Effects of MeJA on Arabidopsis metabolome under endogenous JA deficiency. 2016 , 6, 37674	40
1332	Untargeted plasma and tissue metabolomics in rats with chronic kidney disease given AST-120. 2016 , 6, 22526	42
1331	Metabolomics Investigation Reveals Metabolite Mediators Associated with Acute Lung Injury and Repair in a Murine Model of Influenza Pneumonia. 2016 , 6, 26076	54
1330	Sialoglycoprotein isolated from the eggs of <i>Carassius auratus</i> prevents bone loss: an effect associated with the regulation of gut microbiota in ovariectomized rats. 2016 , 7, 4764-4771	12
1329	- Metabolomics: An Important Tool for Assessing State of Health and Risk of Disease in Nutrigenomics Research. 2016 , 248-261	
1328	Simultaneous targeted analysis of trimethylamine-N-oxide, choline, betaine, and carnitine by high performance liquid chromatography tandem mass spectrometry. 2016 , 1035, 42-48	18
1327	Probiotic mixture VSL#3 reduce high fat diet induced vascular inflammation and atherosclerosis in ApoE(-/-) mice. 2016 , 6, 61	29
1326	Functional thiamine deficiency in end-stage renal disease: malnutrition despite ample nutrients. 2016 , 90, 252-254	7
1325	A reduction in the butyrate producing species <i>Roseburia</i> spp. and <i>Faecalibacterium prausnitzii</i> is associated with chronic kidney disease progression. 2016 , 109, 1389-96	76
1324	Combining NMR and LC/MS Using Backward Variable Elimination: Metabolomics Analysis of Colorectal Cancer, Polyps, and Healthy Controls. 2016 , 88, 7975-83	39
1323	Human risk of diseases associated with red meat intake: Analysis of current theories and proposed role for metabolic incorporation of a non-human sialic acid. 2016 , 51, 16-30	99

1322	Serum pharmacokinetics of choline, trimethylamine, and trimethylamine-N-oxide after oral gavage of phosphatidylcholines with different fatty acid compositions in mice. 2016 , 80, 2217-2223	7
1321	Metabolomic profile for the early detection of coronary artery disease by using UPLC-QTOF/MS. 2016 , 129, 34-42	21
1320	Antibiotic-mediated gut microbiome perturbation accelerates development of type 1 diabetes in mice. 2016 , 1, 16140	209
1319	Integrated metabolomics and metagenomics analysis of plasma and urine identified microbial metabolites associated with coronary heart disease. 2016 , 6, 22525	89
1318	Relationship of Serum Trimethylamine N-Oxide (TMAO) Levels with early Atherosclerosis in Humans. 2016 , 6, 26745	174
1317	Associations between Periodontal Microbiota and Death Rates. 2016 , 6, 35428	5
1316	Zonulin Regulates Intestinal Permeability and Facilitates Enteric Bacteria Permeation in Coronary Artery Disease. 2016 , 6, 29142	38
1315	Comprehensive Plasma Metabolomic Analyses of Atherosclerotic Progression Reveal Alterations in Glycerophospholipid and Sphingolipid Metabolism in Apolipoprotein E-deficient Mice. 2016 , 6, 35037	35
1314	JIMD Reports, Volume 30. 2016 ,	
1313	Commensal Microbe-specific Activation of B2 Cell Subsets Contributes to Atherosclerosis Development Independently of Lipid Metabolism. 2016 , 13, 237-247	18
1312	Associations of gut-flora-dependent metabolite trimethylamine-N-oxide, betaine and choline with non-alcoholic fatty liver disease in adults. 2016 , 6, 19076	163
1311	Intestinal Microbiome and Atherosclerosis. 2016 , 13, 17-18	8
1310	Intracerebral hemorrhage and deep microbleeds associated with cnm-positive Streptococcus mutans; a hospital cohort study. 2016 , 6, 20074	39
1309	Identification of Altered Metabolomic Profiles Following a Panchakarma-based Ayurvedic Intervention in Healthy Subjects: The Self-Directed Biological Transformation Initiative (SBTI). 2016 , 6, 32609	20
1308	Associations of Bowel Movement Frequency with Risk of Cardiovascular Disease and Mortality among US Women. 2016 , 6, 33005	8
1307	Vascular microRNA-204 is remotely governed by the microbiome and impairs endothelium-dependent vasorelaxation by downregulating Sirtuin1. 2016 , 7, 12565	71
1306	Aberrant fecal flora observed in guinea pigs with pressure overload is mitigated in animals receiving vagus nerve stimulation therapy. 2016 , 311, G754-G762	6
1305	TMAO-Protein Preferential Interaction Profile Determines TMAO's Conditional In Vivo Compatibility. 2016 , 111, 1866-1875	12

1304	Gut hormones and gut microbiota: implications for kidney function and hypertension. 2016 , 10, 954-961	39
1303	Omics Approaches To Probe Microbiota and Drug Metabolism Interactions. 2016 , 29, 1987-1997	6
1302	The Gut Microbiota and Atherosclerosis: The State of the Art and Novel Perspectives. 2016 , 1, 433-442	2
1301	Randomized, double-blind, placebo-controlled clinical trial of choline supplementation in school-aged children with fetal alcohol spectrum disorders. 2016 , 104, 1683-1692	38
1300	A Comparative Metabolomics Approach Reveals Early Biomarkers for Metabolic Response to Acute Myocardial Infarction. 2016 , 6, 36359	52
1299	Determination of trimethylamine, trimethylamine N-oxide, and taurine in human plasma and urine by UHPLC-MS/MS technique. 2016 , 1038, 12-18	35
1298	Tiny microbes, enormous impacts: what matters in gut microbiome studies?. 2016 , 17, 217	86
1297	Correlations of Fecal Metabonomic and Microbiomic Changes Induced by High-fat Diet in the Pre-Obesity State. 2016 , 6, 21618	87
1296	Influence of Intestinal Microbiota on the Catabolism of Flavonoids in Mice. 2016 , 81, H3026-H3034	39
1295	Microbiota-Dependent Metabolite Trimethylamine N-Oxide and Coronary Artery Calcium in the Coronary Artery Risk Development in Young Adults Study (CARDIA). 2016 , 5,	92
1294	Significant pharmacokinetic differences of berberine are attributable to variations in gut microbiota between Africans and Chinese. 2016 , 6, 27671	25
1293	Metabolic pathway database for human gut microbiome . 2016 , 27, 87-92	
1292	Metagenomics, Metatranscriptomics, and Metabolomics Approaches for Microbiome Analysis. 2016 , 12, 5-16	140
1291	Intestinal phospholipid and lysophospholipid metabolism in cardiometabolic disease. 2016 , 27, 507-12	34
1290	Oral Communications. 2016 , 50, S197-S233	
1289	The severity of nonalcoholic fatty liver disease is associated with gut dysbiosis and shift in the metabolic function of the gut microbiota. 2016 , 63, 764-75	655
1288	Dietary phosphatidylcholine and risk of all-cause and cardiovascular-specific mortality among US women and men. 2016 , 104, 173-80	49
1287	Worldwide Exposures to Cardiovascular Risk Factors and Associated Health Effects: Current Knowledge and Data Gaps. 2016 , 133, 2314-33	119

1286	Accounting for reciprocal host-microbiome interactions in experimental science. <i>Nature</i> , 2016 , 534, 191-90.4	153
1285	The role of the gut microbiota in NAFLD. 2016 , 13, 412-25	459
1284	Metabolomics - A wide-open door to personalized treatment in chronic heart failure?. 2016 , 219, 156-63	21
1283	The microbial-mammalian metabolic axis: a critical symbiotic relationship. 2016 , 19, 250-256	12
1282	Comparison of the effect of two types of whole mushroom (<i>Agaricus bisporus</i>) powders on intestinal fermentation in rats. 2016 , 80, 2001-6	3
1281	Hepatotoxicity and endothelial dysfunction induced by high choline diet and the protective effects of phloretin in mice. 2016 , 94, 203-12	35
1280	The Future of Vascular Biology and Medicine. 2016 , 133, 2603-9	15
1279	What Have Metabolomics Approaches Taught Us About Type 2 Diabetes?. 2016 , 16, 74	40
1278	Antioxidant-related gene polymorphisms associated with the cardio-ankle vascular index in young Russians. 2016 , 26, 677-82	4
1277	The metabolic role of the gut microbiota in health and rheumatic disease: mechanisms and interventions. 2016 , 12, 446-55	85
1276	Vegetarian diets and gut microbiota: important shifts in markers of metabolism and cardiovascular disease. 2016 , 74, 444-54	19
1275	The use of mass spectrometry for analysing metabolite biomarkers in epidemiology: methodological and statistical considerations for application to large numbers of biological samples. 2016 , 31, 717-33	19
1274	¹ D- ¹ H-nuclear magnetic resonance metabolomics reveals age-related changes in metabolites associated with experimental venous thrombosis. 2016 , 4, 221-30	7
1273	Defining an Overdue Requiem for Palliative Cardiovascular Medicine. 2016 , 10, 313-317	
1272	Intestinal Crosstalk between Bile Acids and Microbiota and Its Impact on Host Metabolism. 2016 , 24, 41-50	1022
1271	Circulation : Clinical Summaries. 2016 , 133, 2339-2341	
1270	Metabolomics in epidemiology: from metabolite concentrations to integrative reaction networks. 2016 , 45, 1319-1328	28
1269	Centenary of the death of Elie Metchnikoff: a visionary and an outstanding team leader. 2016 , 18, 577-594	21

1268	Intestinal Microbiota-Generated Metabolite Trimethylamine-N-Oxide and 5-Year Mortality Risk in Stable Coronary Artery Disease: The Contributory Role of Intestinal Microbiota in a COURAGE-Like Patient Cohort. 2016 , 5,	148
1267	Calcium supplementation modulates gut microbiota in a prebiotic manner in dietary obese mice. 2016 , 60, 468-80	54
1266	Fish protein increases circulating levels of trimethylamine-N-oxide and accelerates aortic lesion formation in apoE null mice. 2016 , 60, 358-68	18
1265	Expanding role of gut microbiota in lipid metabolism. 2016 , 27, 141-7	81
1264	Microbiota-Dependent Marker TMAO Is Elevated in Silent Ischemia but Is Not Associated With First-Time Myocardial Infarction in HIV Infection. 2016 , 71, 130-6	34
1263	Comparative metabolomics in vegans and omnivores reveal constraints on diet-dependent gut microbiota metabolite production. 2016 , 65, 63-72	307
1262	Inflammation as a cause of venous thromboembolism. 2016 , 99, 272-85	63
1261	Impact of increasing fruit and vegetables and flavonoid intake on the human gut microbiota. 2016 , 7, 1788-96	76
1260	Defecation frequency and cardiovascular disease mortality in Japan: The Ohsaki cohort study. 2016 , 246, 251-6	40
1259	High mass accuracy assay for trimethylamine N-oxide using stable-isotope dilution with liquid chromatography coupled to orthogonal acceleration time of flight mass spectrometry with multiple reaction monitoring. 2016 , 408, 797-804	30
1258	Choline, Its Potential Role in Nonalcoholic Fatty Liver Disease, and the Case for Human and Bacterial Genes. 2016 , 7, 5-13	94
1257	Cardiovascular disease following hematopoietic stem cell transplantation: Pathogenesis, detection, and the cardioprotective role of aerobic training. 2016 , 98, 222-34	28
1256	Effect of renal impairment on atherosclerosis: only partially mediated by homocysteine. 2016 , 31, 937-44	44
1255	Bile Acid Modifications at the Microbe-Host Interface: Potential for Nutraceutical and Pharmaceutical Interventions in Host Health. 2016 , 7, 313-33	108
1254	The role of endothelial mechanosensitive genes in atherosclerosis and omics approaches. 2016 , 591, 111-31	34
1253	L-Carnitine intake and high trimethylamine N-oxide plasma levels correlate with low aortic lesions in ApoE(-/-) transgenic mice expressing CETP. 2016 , 244, 29-37	112
1252	Cytoskeleton deregulation and impairment in amino acids and energy metabolism in early atherosclerosis at aortic tissue with reflection in plasma. 2016 , 1862, 725-732	20
1251	A strategy for the targeted metabolomics analysis of 11 gut microbiota-host co-metabolites in rat serum, urine and feces by ultra high performance liquid chromatography-tandem mass spectrometry. 2016 , 1429, 207-17	27

1250	metaModules identifies key functional subnetworks in microbiome-related disease. 2016 , 32, 1678-85	14
1249	A focus on inflammation as a major risk factor for atherosclerotic cardiovascular diseases. 2016 , 14, 391-403	22
1248	Toward Merging Untargeted and Targeted Methods in Mass Spectrometry-Based Metabolomics and Lipidomics. 2016 , 88, 524-45	438
1247	A healthy gastrointestinal microbiome is dependent on dietary diversity. 2016 , 5, 317-320	155
1246	Metabolomics: beyond biomarkers and towards mechanisms. 2016 , 17, 451-9	967
1245	Prospective Associations of Systemic and Urinary Choline Metabolites with Incident Type 2 Diabetes. 2016 , 62, 755-65	52
1244	The diet-microbiota-metabolite axis regulates the host physiology. 2016 , 160, 1-10	15
1243	Taurocholic acid metabolism by gut microbes and colon cancer. 2016 , 7, 201-15	132
1242	Brief Report: Intestinal Microbiota-Produced Trimethylamine-N-Oxide and Its Association With Coronary Stenosis and HIV Serostatus. 2016 , 72, 114-8	21
1241	Gut microbiome and metabolic syndrome. 2016 , 10, S150-7	110
1240	Obesity, Asthma, and the Microbiome. 2016 , 31, 108-16	22
1239	Plasma trimethylamine N-oxide concentration is associated with choline, phospholipids, and methyl metabolism. 2016 , 103, 703-11	86
1238	Trimethylamine N-oxide and prognosis in acute heart failure. 2016 , 102, 841-8	136
1237	Elevated osmolytes in rainbow smelt: the effects of urea, glycerol and trimethylamine oxide on muscle contractile properties. 2016 , 219, 1014-21	3
1236	The Carnitine-butyrobetaine-trimethylamine-N-oxide pathway and its association with cardiovascular mortality in patients with carotid atherosclerosis. 2016 , 247, 64-9	82
1235	Cadmium and atherosclerosis: Heavy metal or singing the blues?. 2016 , 249, 230-2	14
1234	Prebiotics: Definition and protective mechanisms. 2016 , 30, 27-37	88
1233	Correlation detection strategies in microbial data sets vary widely in sensitivity and precision. 2016 , 10, 1669-81	365

1232	Advances in understanding gender difference in cardiometabolic disease risk. 2016 , 14, 513-23	27
1231	Associations of egg and cholesterol intakes with carotid intima-media thickness and risk of incident coronary artery disease according to apolipoprotein E phenotype in men: the Kuopio Ischaemic Heart Disease Risk Factor Study. 2016 , 103, 895-901	40
1230	Exploring and Understanding the Biochemical Diversity of the Human Microbiota. 2016 , 23, 18-30	83
1229	Genome-wide association study and targeted metabolomics identifies sex-specific association of CPS1 with coronary artery disease. 2016 , 7, 10558	79
1228	Secondary Prevention After Symptomatic Large Artery Extracranial Disease. 2016 , 147-160	
1227	Gut microbiome as a novel cardiovascular therapeutic target. 2016 , 27, 8-12	41
1226	Gut Microbial Metabolite TMAO Enhances Platelet Hyperreactivity and Thrombosis Risk. 2016 , 165, 111-124	872
1225	Probiotics in prevention and treatment of obesity: a critical view. 2016 , 13, 14	171
1224	Metabolomics connects aberrant bioenergetic, transmethylation, and gut microbiota in sarcoidosis. 2016 , 12, 1	13
1223	Association between Bacterial Infection and Peripheral Vascular Disease: A Review. 2016 , 25, 3-13	28
1222	Exploring the Microbiome in Heart Failure. 2016 , 13, 103-9	48
1221	Nonalcoholic Components of Wine and Atherosclerotic Cardiovascular Disease. 2016 , 83-99	
1220	Trimethylamine N-Oxide Promotes Vascular Inflammation Through Signaling of Mitogen-Activated Protein Kinase and Nuclear Factor- κ B. 2016 , 5,	372
1219	Obesity and Asthma: Microbiome-Metabolome Interactions. 2016 , 54, 609-17	54
1218	Gut microbiota impact on stroke outcome: Fad or fact?. 2016 , 36, 891-8	44
1217	Chronic Oral L-Carnitine Supplementation Drives Marked Plasma TMAO Elevations in Patients with Organic Acidemias Despite Dietary Meat Restrictions. 2016 , 30, 39-44	32
1216	Knowing Necro-Waste 2016 , 30, 326-345	5
1215	Emerging applications of metabolomics in drug discovery and precision medicine. 2016 , 15, 473-84	694

1214	Urinary Stone Disease: Advancing Knowledge, Patient Care, and Population Health. 2016 , 11, 1305-12	77
1213	Perinatal Lead Exposure Alters Gut Microbiota Composition and Results in Sex-specific Bodyweight Increases in Adult Mice. 2016 , 151, 324-33	81
1212	The microbial pharmacists within us: a metagenomic view of xenobiotic metabolism. 2016 , 14, 273-87	382
1211	Plasma Concentrations of Trimethylamine-N-oxide Are Directly Associated with Dairy Food Consumption and Low-Grade Inflammation in a German Adult Population. 2016 , 146, 283-9	110
1210	Influence of Gut Microbiota on Hepatic Lipogenesis and Disease Pathogenesis. 2016 , 189-209	1
1209	Epidemiology: Then and Now. 2016 , 183, 372-80	13
1208	Choline Diet and Its Gut Microbe-Derived Metabolite, Trimethylamine N-Oxide, Exacerbate Pressure Overload-Induced Heart Failure. 2016 , 9, e002314	174
1207	Associations among serum trimethylamine-N-oxide (TMAO) levels, kidney function and infarcted coronary artery number in patients undergoing cardiovascular surgery: a cross-sectional study. 2016 , 20, 731-739	63
1206	Hepatic De Novo Lipogenesis and Regulation of Metabolism. 2016 ,	3
1205	Egg consumption and risk of type 2 diabetes: a meta-analysis of prospective studies. 2016 , 103, 474-80	80
1204	Mass spectral databases for LC/MS- and GC/MS-based metabolomics: State of the field and future prospects. 2016 , 78, 23-35	295
1203	The gut microbiome, diet, and links to cardiometabolic and chronic disorders. 2016 , 12, 169-81	191
1202	Role of the Gut Microbiome in Uremia: A Potential Therapeutic Target. 2016 , 67, 483-98	192
1201	Ischemic Stroke Therapeutics. 2016 ,	1
1200	Microbiome to Brain: Unravelling the Multidirectional Axes of Communication. 2016 , 874, 301-36	41
1199	Approaches to Lipid Analysis. 2016 , 41-72	1
1198	Serum Trimethylamine-N-Oxide is Elevated in CKD and Correlates with Coronary Atherosclerosis Burden. 2016 , 27, 305-13	241
1197	High-level adherence to a Mediterranean diet beneficially impacts the gut microbiota and associated metabolome. 2016 , 65, 1812-1821	711

1196	Metabolomics and Cardiovascular Medicine. 2016 , 1-37	
1195	The influence of non-steroidal anti-inflammatory drugs on the gut microbiome. 2016 , 22, 178.e1-178.e9	172
1194	Microbiome and potential targets for chemoprevention of esophageal adenocarcinoma. 2016 , 43, 86-96	28
1193	Gut microbiota and obesity. 2016 , 73, 147-62	255
1192	Trimethylamine-N-Oxide Treatment Induces Changes in the ATP-Binding Cassette Transporter A1 and Scavenger Receptor A1 in Murine Macrophage J774A.1 cells. 2016 , 39, 393-404	20
1191	Trimethylamine N-Oxide as a Novel Therapeutic Target in CKD. 2016 , 27, 8-10	9
1190	Egg consumption and risk of type 2 diabetes among African Americans: The Jackson Heart Study. 2016 , 35, 679-84	23
1189	Altered intestinal microbial flora and impaired epithelial barrier structure and function in CKD: the nature, mechanisms, consequences and potential treatment. 2016 , 31, 737-46	217
1188	Psychological stress exacerbates NSAID-induced small bowel injury by inducing changes in intestinal microbiota and permeability via glucocorticoid receptor signaling. 2017 , 52, 61-71	36
1187	Characterization of gut microbiota profiles in coronary artery disease patients using data mining analysis of terminal restriction fragment length polymorphism: gut microbiota could be a diagnostic marker of coronary artery disease. 2017 , 32, 39-46	85
1186	Gut microbiome in chronic kidney disease: challenges and opportunities. 2017 , 179, 24-37	127
1185	¹ H NMR-based metabolomics approach reveals metabolic alterations in response to dietary imbalances in <i>Megalobrama amblycephala</i> . 2017 , 13, 1	29
1184	Gd-DTPA-induced dynamic metabonomic changes in rat biofluids. 2017 , 44, 15-25	2
1183	MicroRNAs and the metabolic hallmarks of aging. 2017 , 455, 131-147	37
1182	Reverse Cholesterol Transport Is Increased in Germ-Free Mice-Brief Report. 2017 , 37, 419-422	17
1181	Inside Out: HIV, the Gut Microbiome, and the Mucosal Immune System. 2017 , 198, 605-614	43
1180	Urine Metabolomics in Hypertension Research. 2017 , 1527, 61-68	6
1179	Personalized microbiome-based approaches to metabolic syndrome management and prevention. 2017 , 9, 226-236	28

1178	An untargeted metabolomics method for archived newborn dried blood spots in epidemiologic studies. 2017 , 13, 1	38
1177	Gut microbiota-dependent trimethylamine N-oxide in acute coronary syndromes: a prognostic marker for incident cardiovascular events beyond traditional risk factors. 2017 , 38, 814-824	226
1176	Serum Trimethylamine N-oxide, Carnitine, Choline, and Betaine in Relation to Colorectal Cancer Risk in the Alpha Tocopherol, Beta Carotene Cancer Prevention Study. 2017 , 26, 945-952	45
1175	Intake of up to 3 Eggs/Day Increases HDL Cholesterol and Plasma Choline While Plasma Trimethylamine-N-oxide is Unchanged in a Healthy Population. 2017 , 52, 255-263	57
1174	Atherosclerosis in 2016: Advances in new therapeutic targets for atherosclerosis. 2017 , 14, 71-72	7
1173	Gut microbial degradation of organophosphate insecticides-induces glucose intolerance via gluconeogenesis. 2017 , 18, 8	73
1172	A metabolomic study of biomarkers of meat and fish intake. 2017 , 105, 600-608	115
1171	The Genetic Architecture of Coronary Artery Disease: Current Knowledge and Future Opportunities. 2017 , 19, 6	29
1170	Commensal bacteria at the crossroad between cholesterol homeostasis and chronic inflammation in atherosclerosis. 2017 , 58, 519-528	67
1169	Metabolic Phenotyping of Diet and Dietary Intake. 2017 , 81, 231-270	5
1168	Epimetabolites: discovering metabolism beyond building and burning. 2017 , 36, 70-76	36
1167	Impaired hepatic lipid synthesis from polyunsaturated fatty acids in TM6SF2 E167K variant carriers with NAFLD. 2017 , 67, 128-136	70
1166	Metabolomics: Bridging Chemistry and Biology in Drug Discovery and Development. 2017 , 3, 16-25	6
1165	Genetic analysis of impaired trimethylamine metabolism using whole exome sequencing. 2017 , 18, 11	8
1164	Metabolomics, Nutrition, and Potential Biomarkers of Food Quality, Intake, and Health Status. 2017 , 82, 83-116	29
1163	Ambient Ultrafine Particle Ingestion Alters Gut Microbiota in Association with Increased Atherogenic Lipid Metabolites. 2017 , 7, 42906	43
1162	Beneficial effects of apple peel polyphenols on vascular endothelial dysfunction and liver injury in high choline-fed mice. 2017 , 8, 1282-1292	24
1161	Non-alcoholic fatty liver disease: an emerging driving force in chronic kidney disease. 2017 , 13, 297-310	146

1160	Integrative Physiology: At the Crossroads of Nutrition, Microbiota, Animal Physiology, and Human Health. 2017 , 25, 522-534	77
1159	The Role of the Immune System in Metabolic Health and Disease. 2017 , 25, 506-521	134
1158	Dietary intake is associated with respiratory health outcomes and DNA methylation in children with asthma. 2017 , 13, 12	14
1157	Mouse models of atherosclerosis: a historical perspective and recent advances. 2017 , 16, 12	88
1156	Trimethylamine N-oxide in atherogenesis: impairing endothelial self-repair capacity and enhancing monocyte adhesion. 2017 , 37,	105
1155	Dietary fiber and prebiotics and the gastrointestinal microbiota. 2017 , 8, 172-184	579
1154	Hepatocyte MyD88 affects bile acids, gut microbiota and metabolome contributing to regulate glucose and lipid metabolism. 2017 , 66, 620-632	81
1153	Are probiotics useful for the average consumer?. 2017 , 42, 42-48	2
1152	A prominent glycol radical enzyme in human gut microbiomes metabolizes -4-hydroxy-l-proline. 2017 , 355,	85
1151	Tea consumption and risk of ischaemic heart disease. 2017 , 103, 783-789	28
1150	A New Frontier for Reverse Cholesterol Transport: The Impact of Intestinal Microbiota on Reverse Cholesterol Transport. 2017 , 37, 385-386	2
1149	Dysbiosis and the immune system. 2017 , 17, 219-232	642
1148	Oral administration of the lactic acid bacterium <i>Pediococcus acidilactici</i> attenuates atherosclerosis in mice by inducing tolerogenic dendritic cells. 2017 , 32, 768-776	19
1147	Berberine-induced bioactive metabolites of the gut microbiota improve energy metabolism. 2017 , 70, 72-84	90
1146	Differences in Gut Metabolites and Microbial Composition and Functions between Egyptian and U.S. Children Are Consistent with Their Diets. 2017 , 2,	75
1145	The immunology of atherosclerosis. 2017 , 13, 368-380	422
1144	Chemical signaling between gut microbiota and host chromatin: What is your gut really saying?. 2017 , 292, 8582-8593	27
1143	Targeting of microbe-derived metabolites to improve human health: The next frontier for drug discovery. 2017 , 292, 8560-8568	55

1142	Effect of pistachio consumption on the modulation of urinary gut microbiota-related metabolites in prediabetic subjects. 2017 , 45, 48-53	37
1141	Assessment of metabolic phenotypic variability in children's urine using H NMR spectroscopy. 2017 , 7, 46082	23
1140	The metabolic fate of isotopically labeled trimethylamine-N-oxide (TMAO) in humans. 2017 , 45, 77-82	31
1139	The State of Cardiovascular Genomics: Abundant Data, Limited Information. 2017 , 70, 696-698	
1138	The systemic nature of CKD. 2017 , 13, 344-358	152
1137	Ratio of serum levels of AGEs to soluble RAGE is correlated with trimethylamine-N-oxide in non-diabetic subjects. 2017 , 68, 1013-1020	6
1136	Gut Microbe-Generated Trimethylamine -Oxide From Dietary Choline Is Prothrombotic in Subjects. 2017 , 135, 1671-1673	142
1135	Evaluation of the impact of gut microbiota on uremic solute accumulation by a CE-TOFMS-based metabolomics approach. 2017 , 92, 634-645	104
1134	Ethnicity influences gut metabolites and microbiota of the tribes of Assam, India. 2017 , 13, 1	5
1133	Relationships between gut microbiota, plasma metabolites, and metabolic syndrome traits in the METSIM cohort. 2017 , 18, 70	167
1132	Teleosts as Model Organisms To Understand Host-Microbe Interactions. 2017 , 199,	32
1131	The Role of the Skin and Gut Microbiome in Psoriatic Disease. 2017 , 6, 94-103	62
1130	High Throughput and Quantitative Measurement of Microbial Metabolome by Gas Chromatography/Mass Spectrometry Using Automated Alkyl Chloroformate Derivatization. 2017 , 89, 5565-5577	74
1129	Role of gut microbiota in atherosclerosis. 2017 , 14, 79-87	264
1128	Simultaneous determination of trimethylamine and trimethylamine N-oxide in mouse plasma samples by hydrophilic interaction liquid chromatography coupled to tandem mass spectrometry. 2017 , 40, 688-696	9
1127	Applications and Limitations of Mouse Models for Understanding Human Atherosclerosis. 2017 , 25, 248-261	102
1126	Understanding the Holobiont: How Microbial Metabolites Affect Human Health and Shape the Immune System. 2017 , 26, 110-130	370
1125	The Microbiome and Immune Regulation After Transplantation. 2017 , 101, 56-62	15

1124	The role of epigenetics in renal ageing. 2017 , 13, 471-482	62
1123	Intestinal microbiota in primary sclerosing cholangitis. 2017 , 33, 85-92	17
1122	NMR quantification of trimethylamine-N-oxide in human serum and plasma in the clinical laboratory setting. 2017 , 50, 947-955	19
1121	Alteration of the gut microbiota in Chinese population with chronic kidney disease. 2017 , 7, 2870	101
1120	Uncovering the trimethylamine-producing bacteria of the human gut microbiota. 2017 , 5, 54	211
1119	Involvement of Organic Cation Transporters in the Kinetics of Trimethylamine N-oxide. 2017 , 106, 2542-2550	23
1118	Integrated metabolomics and metallomics analyses in acute coronary syndrome patients. 2017 , 9, 734-743	12
1117	Challenges in metabolomics-based disease molecular classification: an analytical perspective. 2017 , 9, 771-773	1
1116	The TMAO-Producing Enzyme Flavin-Containing Monooxygenase 3 Regulates Obesity and the Beiging of White Adipose Tissue. 2017 , 19, 2451-2461	124
1115	Genetic Basis for Sex Differences in Obesity and Lipid Metabolism. 2017 , 37, 225-245	113
1114	Variability in Human Host Susceptibility to <i>Listeria monocytogenes</i> Infections. 2017 , 419-449	2
1113	Increased Urinary Trimethylamine N-Oxide Following <i>Cryptosporidium</i> Infection and Protein Malnutrition Independent of Microbiome Effects. 2017 , 216, 64-71	10
1112	Acute Consumption of Flavan-3-ol-Enriched Dark Chocolate Affects Human Endogenous Metabolism. 2017 , 16, 2516-2526	11
1111	Modulation of the gut microbiota impacts nonalcoholic fatty liver disease: a potential role for bile acids. 2017 , 58, 1399-1416	66
1110	The Gut Microbiota as a Mediator of Metabolic Benefits after Bariatric Surgery. 2017 , 41, 439-447	49
1109	Serial Metabolome Changes in a Prospective Cohort of Subjects with Influenza Viral Infection and Comparison with Dengue Fever. 2017 , 16, 2614-2622	22
1108	The gut microbiome and cardiovascular risk: current perspective and gaps of knowledge. 2017 , 13, 191-194	6
1107	Targeted metabolomics analysis of aromatic amino acids and their gut microbiota-host cometabolites in rat serum and urine by liquid chromatography coupled with tandem mass spectrometry. 2017 , 40, 3221-3230	9

1106	Elevated trimethylamine--oxide (TMAO) is associated with poor prognosis in primary sclerosing cholangitis patients with normal liver function. 2017 , 5, 532-541	13
1105	Potential Impact and Study Considerations of Metabolomics in Cardiovascular Health and Disease: A Scientific Statement From the American Heart Association. 2017 , 10,	101
1104	A review of the relationship between pulse consumption and reduction of cardiovascular disease risk factors. 2017 , 38, 635-643	34
1103	Correlation between early-life regulation of the immune system by microbiota and allergy development. 2017 , 139, 1084-1091	66
1102	Microbial metabolites in health and disease: Navigating the unknown in search of function. 2017 , 292, 8553-8559	69
1101	Modulation of Gut Microbiota in Pathological States. 2017 , 3, 83-89	21
1100	Diet and Gut Microbiota in Health and Disease. 2017 , 88, 117-126	40
1099	The microbiome of professional athletes differs from that of more sedentary subjects in composition and particularly at the functional metabolic level. 2018 , 67, 625-633	200
1098	HIV-infected persons with type 2 diabetes show evidence of endothelial dysfunction and increased inflammation. 2017 , 17, 234	16
1097	Gut Microbiota in Cardiovascular Health and Disease. 2017 , 120, 1183-1196	678
1096	The Gut Microbiome and Its Role in Cardiovascular Diseases. 2017 , 135, 1008-1010	83
1095	Metabolomics through the lens of precision cardiovascular medicine. 2017 , 44, 127-138	17
1094	The role of the microbiome in human health and disease: an introduction for clinicians. 2017 , 356, j831	238
1093	Effect of Antibiotics and Diet on Enterolactone Concentration and Metabolome Studied by Targeted and Nontargeted LC-MS Metabolomics. 2017 , 16, 2135-2150	7
1092	The Intriguing Link between the Intestinal Microbiota and Cardiovascular Disease. 2017 , 43, 609-613	8
1091	Non-alcoholic fatty liver disease and its relationship with cardiovascular disease and other extrahepatic diseases. 2017 , 66, 1138-1153	508
1090	Delayed utilization of some fast-fermenting soluble dietary fibers by human gut microbiota when presented in a mixture. 2017 , 32, 347-357	65
1089	Targeting the Microbiome in Heart Failure. 2017 , 19, 27	24

1088	High-cholesterol diet does not alter gut microbiota composition in mice. 2017 , 14, 15	21
1087	Inhibition of autophagy with bafilomycin and chloroquine decreases mitochondrial quality and bioenergetic function in primary neurons. 2017 , 11, 73-81	120
1086	A clustering-based preprocessing method for the elimination of unwanted residuals in metabolomic data. 2017 , 13, 1	3
1085	Egg consumption and heart health: A review. 2017 , 37, 79-85	39
1084	Increased Trimethylamine N-Oxide Portends High Mortality Risk Independent of Glycemic Control in Patients with Type 2 Diabetes Mellitus. 2017 , 63, 297-306	133
1083	Trimethylamine N-oxide and Risk Stratification after Acute Myocardial Infarction. 2017 , 63, 420-428	75
1082	Biology of the Microbiome 2: Metabolic Role. 2017 , 46, 37-47	4
1081	Trimethylamine N-oxide impairs pyruvate and fatty acid oxidation in cardiac mitochondria. 2017 , 267, 32-38	51
1080	Malondialdehyde epitopes are sterile mediators of hepatic inflammation in hypercholesterolemic mice. 2017 , 65, 1181-1195	26
1079	Identification and Characterization of Trimethylamine-N-oxide Uptake and Efflux Transporters. 2017 , 14, 310-318	37
1078	The influence of a chronic L-carnitine administration on the plasma metabolome of male Fischer 344 rats. 2017 , 61, 1600651	13
1077	Metabolic Phenotype of Obesity in a Saudi Population. 2017 , 16, 635-644	13
1076	The Microbiome That Shapes Us: Can It Cause Obesity?. 2017 , 19, 59	12
1075	TMAO mediates effective attraction between lipid membranes by partitioning unevenly between bulk and lipid domains. 2017 , 19, 29862-29871	13
1074	Plasma Metabolites From Choline Pathway and Risk of Cardiovascular Disease in the PREDIMED (Prevention With Mediterranean Diet) Study. 2017 , 6,	58
1073	Comprehensive Metabolomic Profiling and Incident Cardiovascular Disease: A Systematic Review. 2017 , 6,	70
1072	A simple dilute and shoot approach incorporated with pentafluorophenyl (PFP) column based LC-MS/MS assay for the simultaneous determination of trimethylamine N-oxide and trimethylamine in spot urine samples with high throughput. 2017 , 1067, 61-70	5
1071	A highly sensitive liquid chromatography electrospray ionization mass spectrometry method for quantification of TMA, TMAO and creatinine in mouse urine. 2017 , 4, 310-319	12

1070	Bifidobacterium animalis subsp. lactis 420 mitigates the pathological impact of myocardial infarction in the mouse. 2017 , 8, 257-269	15
1069	Pinpointing Double Bond and sn-Positions in Glycerophospholipids via Hybrid 193 nm Ultraviolet Photodissociation (UVPD) Mass Spectrometry. 2017 , 139, 15681-15690	104
1068	The gut microbiome in atherosclerotic cardiovascular disease. 2017 , 8, 845	575
1067	Gut microbial metabolite TMAO contributes to renal dysfunction in a mouse model of diet-induced obesity. 2017 , 493, 964-970	63
1066	Monocyte-Macrophages and T Cells in Atherosclerosis. 2017 , 47, 621-634	300
1065	Myocardial metabolic alterations in mice with diet-induced atherosclerosis: linking sulfur amino acid and lipid metabolism. 2017 , 7, 13597	19
1064	Safety assessment of transgenic canola RF3 with bar and barstar gene on Sprague-Dawley (SD) rats by 90-day feeding test. 2017 , 91, 226-234	4
1063	TMAO is Associated with Mortality: Impact of Modestly Impaired Renal Function. 2017 , 7, 13781	62
1062	Stem cell therapy: from translational hurdles to new frontiers. 2017 , 38, 2915-2918	
1061	Mass spectrometry in medicine: a technology for the future?. 2017 , 3, FSO213	8
1060	Diketopyrrolopyrrole-Based Photosensitizers Conjugated with Chemotherapeutic Agents for Multimodal Tumor Therapy. 2017 , 9, 30398-30405	32
1059	Metabolic, Epigenetic, and Transgenerational Effects of Gut Bacterial Choline Consumption. 2017 , 22, 279-290.e7	100
1058	¹ H NMR based pharmacometabolomics analysis of urine identifies metabolic phenotype of clopidogrel high on treatment platelets reactivity in coronary artery disease patients. 2017 , 146, 135-146	10
1057	Regulation of autoimmune myocarditis by host responses to the microbiome. 2017 , 103, 141-152	5
1056	Apple pectin-derived oligosaccharides produce carbon dioxide radical anion in Fenton reaction and prevent growth of Escherichia coli and Staphylococcus aureus. 2017 , 100, 132-136	7
1055	Timing the Microbes: The Circadian Rhythm of the Gut Microbiome. 2017 , 32, 505-515	64
1054	Development of Inflammatory Bowel Disease Is Linked to a Longitudinal Restructuring of the Gut Metagenome in Mice. 2017 , 2,	33
1053	Regulation of Inflammatory Signaling in Health and Disease. 2017 ,	4

1052	Microbial Factors in Inflammatory Diseases and Cancers. 2017 , 1024, 153-174	14
1051	New tricks for the glycy radical enzyme family. 2017 , 52, 674-695	45
1050	Soluble Dietary Fiber Reduces Trimethylamine Metabolism via Gut Microbiota and Co-Regulates Host AMPK Pathways. 2017 , 61, 1700473	31
1049	Plant-Based Nutrition: An Essential Component of Cardiovascular Disease Prevention and Management. 2017 , 19, 104	35
1048	Elucidation of complexity and prediction of interactions in microbial communities. 2017 , 10, 1500-1522	71
1047	A novel approach for the prediction of species-specific biotransformation of xenobiotic/drug molecules by the human gut microbiota. 2017 , 7, 9751	31
1046	Metabolic programming of the epigenome: host and gut microbial metabolite interactions with host chromatin. 2017 , 189, 30-50	19
1045	Trimethylamine-N-Oxide Induces Vascular Inflammation by Activating the NLRP3 Inflammasome Through the SIRT3-SOD2-mtROS Signaling Pathway. 2017 , 6,	202
1044	Regulation of inflammation by microbiota interactions with the host. 2017 , 18, 851-860	318
1043	Black Raspberries and Their Anthocyanin and Fiber Fractions Alter the Composition and Diversity of Gut Microbiota in F-344 Rats. 2017 , 69, 943-951	62
1042	Welcomes the New Microbiology. 2017 , 85,	3
1041	Trimethylamine N-Oxide, the Microbiome, and Heart and Kidney Disease. 2017 , 37, 157-181	204
1040	Association between microbiota-dependent metabolite trimethylamine--oxide and type 2 diabetes. 2017 , 106, 888-894	83
1039	Interindividual Variability in Biomarkers of Cardiometabolic Health after Consumption of Major Plant-Food Bioactive Compounds and the Determinants Involved. 2017 , 8, 558-570	55
1038	Review - An update on the use of oral phospholipid excipients. 2017 , 108, 1-12	64
1037	Health Effects of Dietary Oxidized Tyrosine and Dityrosine Administration in Mice with Nutrimental Strategies. 2017 , 65, 6957-6971	25
1036	¹ H NMR studies on serum metabolomic changes over time in a kidney-Yang deficiency syndrome model. 2017 , 7, 34251-34261	6
1035	The human microbiome. 2017 , 62, 414-420	95

1034	Microbiome and metabolome data integration provides insight into health and disease. 2017 , 189, 51-64	49
1033	Situaci3 actual en gen3tica cardiovascular: muchos datos, poca informaci3. 2017 , 70, 696-698	
1032	Associations of current diet with plasma and urine TMAO in the KarMeN study: direct and indirect contributions. 2017 , 61, 1700363	60
1031	IL-27R signaling controls myeloid cells accumulation and antigen-presentation in atherosclerosis. 2017 , 7, 2255	13
1030	Alterations of microbiota structure in the larynx relevant to laryngeal carcinoma. 2017 , 7, 5507	20
1029	Levocarnitine Injections Decrease the Need for Erythropoiesis-Stimulating Agents in Hemodialysis Patients with Renal Anemia. 2017 , 7, 188-197	13
1028	Report of the National Heart, Lung, and Blood Institute Working Group on the Role of Microbiota in Blood Pressure Regulation: Current Status and Future Directions. 2017 ,	33
1027	Endocrinology Meets Metabolomics: Achievements, Pitfalls, and Challenges. 2017 , 28, 705-721	19
1026	Brain-Heart Interaction: Cardiac Complications After Stroke. 2017 , 121, 451-468	185
1025	Gut microbiome and its role in cardiovascular diseases. 2017 , 32, 761-766	94
1024	Relationship between gut microbiota and type 2 diabetic erectile dysfunction in Sprague-Dawley rats. 2017 , 37, 523-530	19
1023	Comparison of subacute effects of two types of pyrethroid insecticides using metabolomics methods. 2017 , 143, 161-167	10
1022	The role of trimethylamine N-oxide as a mediator of cardiovascular complications in chronic kidney disease. 2017 , 92, 809-815	54
1021	Gut Microbiota: A New Marker of Cardiovascular Disease. 2017 , 23, 3233-3238	20
1020	Exploring the microbiome in health and disease: Implications for toxicology. 2017 , 1, 239784731774188	19
1019	Biomarkers of tubulointerstitial damage and function in type 1 diabetes. 2017 , 5, e000461	5
1018	Prebiotic Ingredients in Probiotic Dairy Products. 2017 , 253-292	2
1017	Investigation of novel metabolites potentially involved in the pathogenesis of coronary heart disease using a UHPLC-QTOF/MS-based metabolomics approach. 2017 , 7, 15357	21

1016	Clinical Parameters and Gut Microbiome Changes Before and After Surgery in Thoracic Aortic Dissection in Patients with Gastrointestinal Complications. 2017 , 7, 15228	17
1015	Trimethylamine-N-Oxide Instigates NLRP3 Inflammasome Activation and Endothelial Dysfunction. 2017 , 44, 152-162	108
1014	Neuroprotective effect of Naomaitong extract following focal cerebral ischemia induced by middle cerebral artery occlusion in rats. 2017 , 37, 333-340	2
1013	Role of the Gut Microbiota in Ischemic Stroke. 2017 , 01, E287-E293	4
1012	Study on alterations of physiological functions in aged constipation rats with fluid-deficiency based on metabonomic and microbiology analysis. 2017 , 7, 48136-48150	15
1011	Gut microbiota and acute coronary syndromes: ready for use in the emergency room?. 2017 , 38, 825-827	15
1010	Novel Risk Stratification Assays for Acute Coronary Syndrome. 2017 , 19, 69	3
1009	Gut microbe-generated metabolite trimethylamine-N-oxide as cardiovascular risk biomarker: a systematic review and dose-response meta-analysis. 2017 , 38, 2948-2956	240
1008	Comparative analysis between aerial parts and roots (Astragali Radix) of astragalus membranaceus by NMR-based metabolomics. 2017 , 28, 1126-1141	6
1007	The gut microbiome and liver cancer: mechanisms and clinical translation. 2017 , 14, 527-539	252
1006	Increased Trimethylamine-N-Oxide (TMAO) Levels After Roux-en Y Gastric Bypass Surgery-Should We Worry About It?. 2017 , 27, 2170-2173	4
1005	Intermittent Hypoxia and Hypercapnia Accelerate Atherosclerosis, Partially via Trimethylamine-Oxide. 2017 , 57, 581-588	36
1004	Microbial-Host Co-metabolites Are Prodromal Markers Predicting Phenotypic Heterogeneity in Behavior, Obesity, and Impaired Glucose Tolerance. 2017 , 20, 136-148	57
1003	Screening Specific Biomarkers of Herbs Using a Metabolomics Approach: A Case Study of Panax ginseng. 2017 , 7, 4609	14
1002	Bifidobacterium animalis subsp. lactis LKM512 reduces levels of intestinal trimethylamine produced by intestinal microbiota in healthy volunteers: A double-blind, placebo-controlled study. 2017 , 36, 94-101	19
1001	Incidence of constipation in stroke patients: A systematic review and meta-analysis. 2017 , 96, e7225	32
1000	Metabolomics Toward Biomarker Discovery. 2017 , 1619, 467-475	6
999	Estrogen-gut microbiome axis: Physiological and clinical implications. 2017 , 103, 45-53	243

998	What Are Missing Parts in the Research Story of Trimethylamine-N-oxide (TMAO)?. 2017 , 65, 5227-5228	10
997	Genomics and metagenomics of trimethylamine-utilizing Archaea in the human gut microbiome. 2017 , 11, 2059-2074	70
996	Microbiota-dependent metabolite and cardiovascular disease marker trimethylamine-N-oxide (TMAO) is associated with monocyte activation but not platelet function in untreated HIV infection. 2017 , 17, 445	20
995	Association of dietary patterns with the fecal microbiota in Korean adolescents. 2017 , 3, 20	16
994	The remedy within: will the microbiome fulfill its therapeutic promise?. 2017 , 95, 1021-1027	18
993	Gut Microbiota Metabolites and Risk of Major Adverse Cardiovascular Disease Events and Death: A Systematic Review and Meta-Analysis of Prospective Studies. 2017 , 6,	256
992	Constipation and Incident CKD. 2017 , 28, 1248-1258	57
991	The gut-kidney axis. 2017 , 32, 2005-2014	111
990	Prospective associations of plasma phospholipids and mild cognitive impairment/dementia among African Americans in the ARIC Neurocognitive Study. 2017 , 6, 1-10	19
989	Dietary, anthropometric, and biochemical factors influencing plasma choline, carnitine, trimethylamine, and trimethylamine-N-oxide concentrations. 2017 , 68, 488-495	23
988	Metabolomics and Metabolic Diseases: Where Do We Stand?. 2017 , 25, 43-56	339
987	Trimethylamine-N-Oxide: Friend, Foe, or Simply Caught in the Cross-Fire?. 2017 , 28, 121-130	99
986	Trimethylamine-N-oxide and its biological variations in vegetarians. 2017 , 56, 2599-2609	20
985	Metabolomics reveals differences between three daidzein metabolizing phenotypes in adults with cardiometabolic risk factors. 2017 , 61, 1600132	23
984	Plasma trimethylamine-N-oxide following supplementation with vitamin D or D plus B vitamins. 2017 , 61, 1600358	17
983	Potential health hazards of eating red meat. 2017 , 281, 106-122	199
982	Intra-individual variation of plasma trimethylamine-N-oxide (TMAO), betaine and choline over 1 year. 2017 , 55, 261-268	56
981	Impact of red meat consumption on the metabolome of rats. 2017 , 61, 1600387	15

980	An overview of renal metabolomics. 2017 , 91, 61-69	76
979	The development of a choline rich cereal based functional food: Effect of processing and storage. 2017 , 75, 447-452	7
978	Trimethylamine-N-oxide (TMAO) response to animal source foods varies among healthy young men and is influenced by their gut microbiota composition: A randomized controlled trial. 2017 , 61, 1600324	194
977	Gut microbiome and liver disease. 2017 , 179, 49-59	58
976	Trimethylamine N-Oxide and Cardiovascular Events in Hemodialysis Patients. 2017 , 28, 321-331	101
975	Microbiome, trimethylamine N-oxide, and cardiometabolic disease. 2017 , 179, 108-115	83
974	Major involvement of bacterial components in rheumatoid arthritis and its accompanying oxidative stress, systemic inflammation and hypercoagulability. 2017 , 242, 355-373	52
973	Natural products as mediators of disease. 2017 , 34, 194-219	47
972	Human gut microbiota: the links with dementia development. 2017 , 8, 90-102	142
971	Effect of inulin-type fructans on blood lipid profile and glucose level: a systematic review and meta-analysis of randomized controlled trials. 2017 , 71, 9-20	82
970	Inflammation in Atherosclerosis. 2017 , 1279-1300	
969	Malnutrition and Liver Disease. 2017 , 460-487	0
968	Gut Microbiota in Obesity and Metabolic Abnormalities: A Matter of Composition or Functionality?. 2017 , 48, 735-753	37
967	Fish oil affects the metabolic process of trimethylamine N-oxide precursor through trimethylamine production and flavin-containing monooxygenase activity in male C57BL/6 mice. 2017 , 7, 56655-56661	14
966	Bacterial Therapy and Mitochondrial Therapy. 2017 , 82, 1549-1556	3
965	Complementary and Alternative Medicine Strategies for Therapeutic Gut Microbiota Modulation in Inflammatory Bowel Disease and their Next-Generation Approaches. 2017 , 46, 689-729	18
964	The Microbiome in Primary Sclerosing Cholangitis: Current Evidence and Potential Concepts. 2017 , 37, 314-331	35
963	Amino acid supplements and metabolic health: a potential interplay between intestinal microbiota and systems control. 2017 , 12, 27	25

962	Systems healthcare: a holistic paradigm for tomorrow. 2017 , 11, 142	16
961	Gut Microbiota and Atherosclerosis. 2017 , 19, 39	54
960	Archaeobiotics: Archaea as Pharmabiotics for Treating Chronic Disease in Humans?. 2017 ,	4
959	The association between bacteria and urinary stones. 2017 , 5, 32	45
958	Diet and microbiota in inflammatory bowel disease: The gut in disharmony. 2017 , 23, 2124-2140	82
957	HIV-associated changes in the enteric microbial community: potential role in loss of homeostasis and development of systemic inflammation. 2017 , 30, 31-43	52
956	Statistical methods for metagenomics data analysis. 2017 , 19, 366	2
955	Significance of Microbiota in Obesity and Metabolic Diseases and the Modulatory Potential by Medicinal Plant and Food Ingredients. 2017 , 8, 387	64
954	Gut Microbiota-Dependent Metabolite Trimethylamine N-Oxide Contributes to Cardiac Dysfunction in Western Diet-Induced Obese Mice. 2017 , 8, 139	117
953	Elevated Circulating Trimethylamine N-Oxide Levels Contribute to Endothelial Dysfunction in Aged Rats through Vascular Inflammation and Oxidative Stress. 2017 , 8, 350	97
952	Gut Microbiome Response to Sucralose and Its Potential Role in Inducing Liver Inflammation in Mice. 2017 , 8, 487	108
951	Novel Concept of a Heart-Gut Axis in the Pathophysiology of Heart Failure. 2017 , 47, 663-669	30
950	Vegetarian Diets and the Microbiome. 2017 , 429-461	0
949	Identification of the Microbiota in the Aging Process. 2017 , 37-56	3
948	Dietary Fiber, Soluble and Insoluble, Carbohydrates, Fructose, and Lipids. 2017 , 187-200	2
947	Gut microbiome as a biomarker of cardiometabolic disorders. 2017 , 24, 416-422	25
946	Recommendations for Improving Identification and Quantification in Non-Targeted, GC-MS-Based Metabolomic Profiling of Human Plasma. 2017 , 7,	10
945	Gut Microbiota and Nonalcoholic Fatty Liver Disease: Insights on Mechanisms and Therapy. 2017 , 9,	100

944	Effects of Different Exercise Modes on the Urinary Metabolic Fingerprint of Men with and without Metabolic Syndrome. 2017 , 7,	18
943	Pharmabiotics as an Emerging Medication for Metabolic Syndrome and Its Related Diseases. 2017 , 22,	14
942	Phospholipids of Animal and Marine Origin: Structure, Function, and Anti-Inflammatory Properties. 2017 , 22,	120
941	Nutrients Turned into Toxins: Microbiota Modulation of Nutrient Properties in Chronic Kidney Disease. 2017 , 9,	48
940	Bridging the Gap between Gut Microbial Dysbiosis and Cardiovascular Diseases. 2017 , 9,	81
939	Nonalcoholic Fatty Liver Disease Is Exacerbated in High-Fat Diet-Fed Gnotobiotic Mice by Colonization with the Gut Microbiota from Patients with Nonalcoholic Steatohepatitis. 2017 , 9,	77
938	"Uremic Toxin" Section in the Journal Toxins: A Powerful Tool to Bundle and Advance Knowledge on Uremia. 2017 , 9,	1
937	Hypertension in rats is associated with an increased permeability of the colon to TMA, a gut bacteria metabolite. 2017 , 12, e0189310	75
936	Cholesterol in Chicken Eggs: Still a Dietary Concern for Some. 2017 , 189-198	2
935	Metabolic Effects of Berries with Structurally Diverse Anthocyanins. 2017 , 18,	76
934	Gene-Diet Interaction and Precision Nutrition in Obesity. 2017 , 18,	79
933	Alterations of the Gut Microbiome in Hypertension. 2017 , 7, 381	178
932	Fructose: A Dietary Sugar in Crosstalk with Microbiota Contributing to the Development and Progression of Non-Alcoholic Liver Disease. 2017 , 8, 1159	93
931	Gut Dysbiosis and Adaptive Immune Response in Diet-induced Obesity vs. Systemic Inflammation. 2017 , 8, 1157	38
930	Geography, Ethnicity or Subsistence-Specific Variations in Human Microbiome Composition and Diversity. 2017 , 8, 1162	400
929	Effect of Functional Oligosaccharides and Ordinary Dietary Fiber on Intestinal Microbiota Diversity. 2017 , 8, 1750	64
928	Role of Gut Microbiota on Cardio-Metabolic Parameters and Immunity in Coronary Artery Disease Patients with and without Type-2 Diabetes Mellitus. 2017 , 8, 1936	53
927	Balancing Herbal Medicine and Functional Food for Prevention and Treatment of Cardiometabolic Diseases through Modulating Gut Microbiota. 2017 , 8, 2146	97

926	Age Drives Distortion of Brain Metabolic, Vascular and Cognitive Functions, and the Gut Microbiome. 2017 , 9, 298	62
925	Egg Consumption and Incidence of Heart Failure: A Meta-Analysis of Prospective Cohort Studies. 2017 , 4, 10	21
924	The Role of Supplemental Complex Dietary Carbohydrates and Gut Microbiota in Promoting Cardiometabolic and Immunological Health in Obesity: Lessons from Healthy Non-Obese Individuals. 2017 , 4, 34	19
923	Association Study of Gut Flora in Coronary Heart Disease through High-Throughput Sequencing. 2017 , 2017, 3796359	49
922	Does the Gut Microbiota Influence Immunity and Inflammation in Multiple Sclerosis Pathophysiology?. 2017 , 2017, 7904821	35
921	Recent advances in preventing stroke recurrence. 2017 , 6, 1017	6
920	Blood Pressure and Vegetarian Diets. 2017 , 395-413	1
919	The metabolomics of psoriatic disease. 2017 , 7, 1-15	18
918	Trimethylamine N-oxide (TMAO) as a New Potential Therapeutic Target for Insulin Resistance and Cancer. 2017 , 23, 3699-3712	64
917	Atherosclerosis and Arterial Calcification. 2017 , 129-160	
916	Blood Trimethylamine-N-Oxide Originates from Microbiota Mediated Breakdown of Phosphatidylcholine and Absorption from Small Intestine. 2017 , 12, e0170742	32
915	Differences in gut microbiota profile between women with active lifestyle and sedentary women. 2017 , 12, e0171352	197
914	Gut dysbiosis is associated with metabolism and systemic inflammation in patients with ischemic stroke. 2017 , 12, e0171521	120
913	Visceral adipose tissue but not subcutaneous adipose tissue is associated with urine and serum metabolites. 2017 , 12, e0175133	20
912	Effect of long-term dietary sphingomyelin supplementation on atherosclerosis in mice. 2017 , 12, e0189523	19
911	Seminal plasma metabolomics approach for the diagnosis of unexplained male infertility. 2017 , 12, e0181115	36
910	The Pocket-4-Life project, bioavailability and beneficial properties of the bioactive compounds of espresso coffee and cocoa-based confectionery containing coffee: study protocol for a randomized cross-over trial. 2017 , 18, 527	11
909	Bile acids at the cross-roads of gut microbiome-host cardiometabolic interactions. 2017 , 9, 102	32

908	Intestinal Immunity and Gut Microbiota in Atherogenesis. 2017 , 24, 110-119	27
907	Are Short Chain Fatty Acids in Gut Microbiota Defensive Players for Inflammation and Atherosclerosis?. 2017 , 24, 660-672	226
906	Modulation of the gut microbiota by prebiotic fibres and bacteriocins. 2017 , 28, 1348886	51
905	Human plasma and urinary metabolic profiles of trimethylamine and trimethylamine N-oxide extrapolated using a simple physiologically based pharmacokinetic model. 2017 , 42, 485-490	5
904	Translating our microbiome into medicine. 2017 , 206, 287-288	
903	The Saliva Exposome for Monitoring of Individuals' Health Trajectories. 2017 , 125, 077014	31
902	The Influence of Fiber on Gut Microbiota: Butyrate as Molecular Player Involved in the Beneficial Interplay Between Dietary Fiber and Cardiovascular Health. 2017 , 61-71	2
901	Consumo de huevo y diabetes mellitus tipo 2: una revisi3n de la literatura cient3fica. 2017 , 44, 393-399	
900	The Influence of Microbiota on Mechanisms of Bariatric Surgery. 2017 , 267-281	1
899	Premature or pathological aging: longevity. 2017 , 20,	5
898	Prevention of Atherosclerosis Via Modulating Intestinal Immunity and Metabolism ~Gut Bacterial Flora and Atherosclerotic Cardiovascular Diseases~. 2017 , 13, 205-209	
897	Dietary choline derived TMAO: new role in thrombosis. 2017 , 2, 112-112	4
896	Nutrimetabolomics: integrating metabolomics in nutrition to disentangle intake of animal-based foods. 2018 , 14, 34	3
895	Relationship between serum trimethylamine N-oxide and exposure to dioxin-like pollutants. 2018 , 162, 211-218	6
894	A Bacterial Microcompartment Is Used for Choline Fermentation by Escherichia coli 536. 2018 , 200,	28
893	Gut microbiota in toxicological risk assessment of drugs and chemicals: The need of hour. 2018 , 9, 465-468	9
892	The Human Gut Microbiome: From Association to Modulation. 2018 , 172, 1198-1215	344
891	UPLC-ESI-MS/MS method for the quantitative measurement of aliphatic diamines, trimethylamine N-oxide, and 3-methylamino-L-alanine in human urine. 2018 , 1083, 86-92	9

890	H NMR-Based Identification of Intestinally Absorbed Metabolites by Ussing Chamber Analysis of the Rat Cecum. 2018 , 90, 4196-4202	3
889	Dysbiosis of gut microbiota in promoting the development of colorectal cancer. 2018 , 6, 1-12	110
888	Intestinal microbiota and the immune system in metabolic diseases. 2018 , 56, 154-162	49
887	Alterations in gut microbial function following liver transplant. 2018 , 24, 752-761	35
886	Gut microbiota in kidney disease and hypertension. 2018 , 130, 198-203	28
885	Bacterial microcompartments. 2018 , 16, 277-290	188
884	Tartary buckwheat protein prevented dyslipidemia in high-fat diet-fed mice associated with gut microbiota changes. 2018 , 119, 296-301	38
883	Microbiota metabolites: Pivotal players of cardiovascular damage in chronic kidney disease. 2018 , 130, 132-142	49
882	Current and future perspectives of functional metabolomics in disease studies-A review. 2018 , 1037, 41-54	50
881	Gallstone disease and increased risk of mortality: Two large prospective studies in US men and women. 2018 , 33, 1925-1931	17
880	Systems biology in hepatology: approaches and applications. 2018 , 15, 365-377	70
879	Vascular Cognitive Impairment and the Gut Microbiota. 2018 , 63, 1209-1222	14
878	Metabolic products of the intestinal microbiome and extremes of atherosclerosis. 2018 , 273, 91-97	75
877	Archaea: Microbial Candidates in Next-generation Probiotics Development. 2018 , 52 Suppl 1, Proceedings from t, S71-S73	6
876	A Systems-Level View of Renal Metabolomics. 2018 , 38, 142-150	9
875	Metabolomics activity screening for identifying metabolites that modulate phenotype. 2018 , 36, 316-320	160
874	Current State of Knowledge on Implications of Gut Microbiome for Surgical Conditions. 2018 , 22, 1112-1123	7
873	Invited Commentary: The Microbiome and Population Health-Considerations for Enhancing Study Design and Data Analysis in Observational and Interventional Epidemiology. 2018 , 187, 1291-1294	1

872	Historical links between toxinology and immunology. 2018 , 76,	7
871	The microbial metabolite trimethylamine-N-oxide in association with inflammation and microbial dysregulation in three HIV cohorts at various disease stages. 2018 , 32, 1589-1598	19
870	Connection Between BMI-Related Plasma Metabolite Profile and Gut Microbiota. 2018 , 103, 1491-1501	110
869	Gut-dependent microbial translocation induces inflammation and cardiovascular events after ST-elevation myocardial infarction. 2018 , 6, 66	100
868	Methodological Strategies in Microbiome Research and their Explanatory Implications. 2018 , 26, 239-265	14
867	Ruminant meat and milk contain β-alanin, another precursor of trimethylamine N-oxide (TMAO) like β-butyrobetaine. 2018 , 260, 193-199	27
866	Dietary Interventions to Modulate the Gut Microbiome-How Far Away Are We From Precision Medicine. 2018 , 24, 2142-2154	41
865	Human Suction Blister Fluid Composition Determined Using High-Resolution Metabolomics. 2018 , 90, 3786-3792	39
864	Hyperlipidemia induces typical atherosclerosis development in Ldlr and Apoe deficient rats. 2018 , 271, 26-35	48
863	Metabolic Predictors of Incident Coronary Heart Disease in Women. 2018 , 137, 841-853	105
862	A potential relationship between gut microbes and atrial fibrillation: Trimethylamine N-oxide, a gut microbe-derived metabolite, facilitates the progression of atrial fibrillation. 2018 , 255, 92-98	55
861	Evolving targets for the treatment of atherosclerosis. 2018 , 187, 1-12	36
860	Molecular dynamics simulation studies suggests unconventional roles of non-secretary laccases from enteropathogenic gut bacteria and Cryptococcus neoformans serotype D. 2018 , 73, 41-48	6
859	Metabolomics of Body Fluids. 2018 , 173-195	
858	Time for food: The impact of diet on gut microbiota and human health. 2018 , 51-52, 80-85	56
857	Simultaneous determination of trimethylamine N-oxide, choline, betaine by UPLC-MS/MS in human plasma: An application in acute stroke patients. 2018 , 152, 179-187	17
856	Dietary intake of glucono-δ-lactone attenuates skin inflammation and contributes to maintaining skin condition. 2018 , 9, 1524-1531	6
855	Extended Duration Nocturnal Hemodialysis and Changes in Plasma Metabolite Profiles. 2018 , 13, 436-444	20

854	The microbiome in chronic kidney disease patients undergoing hemodialysis and peritoneal dialysis. 2018 , 130, 143-151	23
853	Altered Microbiota and Their Metabolism in Host Metabolic Diseases. 2018 , 129-165	1
852	Big Data Analytics, the Microbiome, Host-omic and Bug-omic Data and Risk for Cardiovascular Disease. 2018 , 27, e26-e27	0
851	Elevated circulating levels of succinate in human obesity are linked to specific gut microbiota. 2018 , 12, 1642-1657	132
850	Metabolomics Reveals that Dietary Ferulic Acid and Quercetin Modulate Metabolic Homeostasis in Rats. 2018 , 66, 1723-1731	34
849	Inflammatory Pathways Regulated by Tumor Necrosis Receptor-Associated Factor 1 Protect From Metabolic Consequences in Diet-Induced Obesity. 2018 , 122, 693-700	12
848	Diet and microbiota linked in health and disease. 2018 , 9, 688-704	96
847	Diet for stroke prevention. 2018 , 3, 44-50	19
846	IgA antibodies to phosphocholine associate with long-term cardiovascular disease risk. 2018 , 269, 294-300	8
845	Is metformin poised for a second career as an antimicrobial?. 2018 , 34, e2975	48
844	The gut microbiota as a novel regulator of cardiovascular function and disease. 2018 , 56, 1-15	84
843	Gut microbiota in cardiovascular disease and heart failure. 2018 , 132, 85-91	48
842	Gut flora-dependent metabolite Trimethylamine-N-oxide accelerates endothelial cell senescence and vascular aging through oxidative stress. 2018 , 116, 88-100	102
841	Effect of atorvastatin on the gut microbiota of high fat diet-induced hypercholesterolemic rats. 2018 , 8, 662	46
840	Microbial modulation of cardiovascular disease. 2018 , 16, 171-181	195
839	The germ-organ theory of non-communicable diseases. 2018 , 16, 103-110	68
838	Inulin from Jerusalem artichoke tubers alleviates hyperlipidemia and increases abundance of bifidobacteria in the intestines of hyperlipidemic mice. 2018 , 40, 187-196	19
837	Human microbiota, blood group antigens, and disease. 2018 , 10, e1413	17

836	The role of metabolomic markers for patients with infectious diseases: implications for risk stratification and therapeutic modulation. 2018 , 16, 133-142	16
835	Diet, Microbiota, and Metabolic Health: Trade-Off Between Saccharolytic and Proteolytic Fermentation. 2018 , 9, 65-84	56
834	Changes in Gut Microbiota-Related Metabolites and Long-term Successful Weight Loss in Response to Weight-Loss Diets: The POUNDS Lost Trial. 2018 , 41, 413-419	40
833	Dark matter in host-microbiome metabolomics: Tackling the unknowns-A review. 2018 , 1037, 13-27	69
832	Microbiota and metabolic diseases. 2018 , 61, 357-371	162
831	Gut microbiota derived metabolites in cardiovascular health and disease. 2018 , 9, 416-431	147
830	A Prospective Metagenomic and Metabolomic Analysis of the Impact of Exercise and/or Whey Protein Supplementation on the Gut Microbiome of Sedentary Adults. 2018 , 3,	80
829	Metabolic retroconversion of trimethylamine N-oxide and the gut microbiota. 2018 , 6, 73	82
828	Neuroimmune Mechanisms of Depression in Adults with Heart Failure. 2018 , 1781, 145-169	1
827	Walnut Consumption Alters the Gastrointestinal Microbiota, Microbially Derived Secondary Bile Acids, and Health Markers in Healthy Adults: A Randomized Controlled Trial. 2018 , 148, 861-867	85
826	Comprehensive evaluation of untargeted metabolomics data processing software in feature detection, quantification and discriminating marker selection. 2018 , 1029, 50-57	61
825	Methodological considerations for the identification of choline and carnitine-degrading bacteria in the gut. 2018 , 149, 42-48	21
824	Malaria and the Microbiome: A Systematic Review. 2018 , 67, 1831-1839	23
823	Fetal one-carbon nutrient concentrations may be affected by gestational diabetes. 2018 , 55, 57-64	10
822	Contribution of multidrug and toxin extrusion protein 1 (MATE1) to renal secretion of trimethylamine-N-oxide (TMAO). 2018 , 8, 6659	11
821	Plasma trimethylamine N-oxide is associated with vulnerable plaque characteristics in CAD patients as assessed by optical coherence tomography. 2018 , 265, 18-23	32
820	Risk of cardiomyopathy and cardiac arrhythmias in patients with nonalcoholic fatty liver disease. 2018 , 15, 425-439	114
819	Taking Systems Medicine to Heart. 2018 , 122, 1276-1289	22

818	The Interplay Between the Microbiome and Cardiovascular Risk. 2018 , 6, 89-97	2
817	Integrative metabolic and microbial profiling on patients with Spleen-yang-deficiency syndrome. 2018 , 8, 6619	41
816	Cardiovascular Metabolomics. 2018 , 122, 1238-1258	144
815	Contributory Role of Gut Microbiota and Their Metabolites Toward Cardiovascular Complications in Chronic Kidney Disease. 2018 , 38, 193-205	28
814	Metabonomic profiling of chronic intermittent hypoxia in a mouse model. 2018 , 256, 157-173	10
813	Mechanisms of utilisation of arabinoxylans by a porcine faecal inoculum: competition and co-operation. 2018 , 8, 4546	18
812	Elevated trimethylamine -oxide related to ischemic brain lesions after carotid artery stenting. 2018 , 90, e1283-e1290	29
811	Effect of Vegan Fecal Microbiota Transplantation on Carnitine- and Choline-Derived Trimethylamine-N-Oxide Production and Vascular Inflammation in Patients With Metabolic Syndrome. 2018 , 7,	100
810	Trimethylamine N-oxide and ACE inhibitors: fighting a new enemy with an established weapon?. 2018 , 23, 509-511	
809	LC-MS-based serum fingerprinting reveals significant dysregulation of phospholipids in chronic heart failure. 2018 , 154, 354-363	15
808	Die Bedeutung des intestinalen Mikrobioms beim ischämischen Schlaganfall. 2018 , 45, 127-134	0
807	Role of carnitine and its derivatives in the development and management of type 2 diabetes. 2018 , 8, 8	74
806	Mikrobielle Biomarker zur Krebsfrüherkennung. 2018 , 39, 55-62	
805	Diet, Genetics, and the Gut Microbiome Drive Dynamic Changes in Plasma Metabolites. 2018 , 22, 3072-3086	99
804	Dietary choline and betaine; associations with subclinical markers of cardiovascular disease risk and incidence of CVD, coronary heart disease and stroke: the Jackson Heart Study. 2018 , 57, 51-60	39
803	Gut microbiota functions: metabolism of nutrients and other food components. 2018 , 57, 1-24	857
802	Urea and chronic kidney disease: the comeback of the century? (in uraemia research). 2018 , 33, 4-12	72
801	Food additives, contaminants and other minor components: effects on human gut microbiota-a review. 2018 , 74, 69-83	89

800	The gut microbiota metabolism of pomegranate or walnut ellagitannins yields two urolithin-metabotypes that correlate with cardiometabolic risk biomarkers: Comparison between normoweight, overweight-obesity and metabolic syndrome. 2018 , 37, 897-905	73
799	The role of the microbiome and the use of probiotics in gastrointestinal disorders in adults in the Asia-Pacific region - background and recommendations of a regional consensus meeting. 2018 , 33, 57-69	16
798	Lung Microbiota and Its Impact on the Mucosal Immune Phenotype. 2017 , 5,	23
797	Gut, microbiota-dependent trimethylamine-N-oxide is associated with long-term all-cause mortality in patients with exacerbated chronic obstructive pulmonary disease. 2018 , 45, 135-141.e1	24
796	Microbiota-Host Transgenomic Metabolism, Bioactive Molecules from the Inside. 2018 , 61, 47-61	47
795	Trimethylamine N-oxide: breathe new life. 2018 , 175, 1344-1353	68
794	Gut microbial diversity in HIV infection post combined antiretroviral therapy: a key target for prevention of cardiovascular disease. 2018 , 13, 38-44	17
793	Systematic review of the effects of the intestinal microbiota on selected nutrients and non-nutrients. 2018 , 57, 25-49	85
792	Effect of Flavin-Containing Monooxygenase Genotype, Mouse Strain, and Gender on Trimethylamine -oxide Production, Plasma Cholesterol Concentration, and an Index of Atherosclerosis. 2018 , 46, 20-25	24
791	Serum lipid feature and potential biomarkers of lethal ventricular tachyarrhythmia (LVTA) induced by myocardial ion channel diseases: a rat model study. 2018 , 132, 439-448	5
790	Intestinal microbiome affects the distinctive flavor of Chinese mitten crabs in commercial farms. 2018 , 483, 38-45	21
789	Use of Metabolomics in Improving Assessment of Dietary Intake. 2018 , 64, 82-98	121
788	Response to the Letter to the Editor From Dr. Spence, "Egg Consumption and Cardiovascular Risk". 2018 , 42, 223	
787	Gut microbiota and chronic kidney disease: implications for novel mechanistic insights and therapeutic strategies. 2018 , 50, 289-299	26
786	Beyond gut feelings: how the gut microbiota regulates blood pressure. 2018 , 15, 20-32	177
785	Lipoproteins and Cardiovascular Redox Signaling: Role in Atherosclerosis and Coronary Disease. 2018 , 29, 337-352	7
784	Trimethylamine-N-oxide, as a risk factor for atherosclerosis, induces stress in J774A.1 murine macrophages. 2018 , 63, 57-63	13
783	Microbiota-derived uremic retention solutes: perpetrators of altered nonrenal drug clearance in kidney disease. 2018 , 11, 71-82	19

782 Prescribing Probiotics. **2018**, 986-995.e4

781 Renal damage in the metabolic syndrome (MetSx): Disorders implicated. **2018**, 818, 554-568 13

780 The Effect of Different L-Carnitine Administration Routes on the Development of Atherosclerosis in ApoE Knockout Mice. **2018**, 62, 1700299 16

779 Serum metabolites and risk of myocardial infarction and ischemic stroke: a targeted metabolomic approach in two German prospective cohorts. **2018**, 33, 55-66 42

778 Metabolic Biomarkers in Heart Failure. **2018**, 14, 109-118 29

777 A review of metabolic potential of human gut microbiome in human nutrition. **2018**, 200, 203-217 107

776 The gut microbiota: An emerging risk factor for cardiovascular and cerebrovascular disease. **2018**, 48, 564-575 72

775 Increased Levels of Circulating Fatty Acids Are Associated with Protective Effects against Future Cardiovascular Events in Nondiabetics. **2018**, 17, 870-878 9

774 Berberine treatment increases Akkermansia in the gut and improves high-fat diet-induced atherosclerosis in Apoe mice. **2018**, 268, 117-126 105

773 Association Between Small Intestinal Bacterial Overgrowth by Glucose Breath Test and Coronary Artery Disease. **2018**, 63, 412-421 13

772 Postprandial gut microbiota-driven choline metabolism links dietary cues to adipose tissue dysfunction. **2018**, 7, 49-56 15

771 How poverty affects diet to shape the microbiota and chronic disease. **2018**, 18, 279-287 23

770 Trimethylamine N-oxide promotes atherosclerosis via CD36-dependent MAPK/JNK pathway. **2018**, 97, 941-947 114

769 CntA oxygenase substrate profile comparison and oxygen dependency of TMA production in *Providencia rettgeri*. **2018**, 58, 52-59 7

768 Myocardial infarction and gut microbiota: An incidental connection. **2018**, 129, 308-317 24

767 Exposure to the fungicide propamocarb causes gut microbiota dysbiosis and metabolic disorder in mice. **2018**, 237, 775-783 58

766 Microbiota and HDL metabolism. **2018**, 29, 18-23 13

765 Circulating trimethylamine N-oxide and the risk of cardiovascular diseases: a systematic review and meta-analysis of 11 prospective cohort studies. **2018**, 22, 185-194 132

764	Metabolic changes associated with papillary thyroid carcinoma: A nuclear magnetic resonance-based metabolomics study. 2018 , 41, 3006-3014	17
763	Gut microbiome metagenomics to understand how xenobiotics impact human health. 2018 , 11-12, 51-58	13
762	Standard and Novel Biomarkers. 2018 , 98-113	1
761	Two Types of Intuitionistic Fuzzy Covering Rough Sets and an Application to Multiple Criteria Group Decision Making. 2018 , 10, 462	12
760	An in vitro exploratory study of dietary strategies based on polyphenol-rich beverages, fruit juices and oils to control trimethylamine production in the colon. 2018 , 9, 6470-6483	18
759	Protective effects of SKLB023 on a mouse model of unilateral ureteral obstruction by the modulation of gut microbiota.. 2018 , 8, 40232-40242	
758	. 2018 ,	7
757	Plasma trimethylamine-N-oxide and related metabolites are associated with type 2 diabetes risk in the Prevenció con Dieta Mediterránea (PREDIMED) trial. 2018 , 108, 163-173	24
756	Untargeted metabolomics identifies trimethyllysine, a TMAO-producing nutrient precursor, as a predictor of incident cardiovascular disease risk. 2018 , 3,	78
755	Bacteroides vulgatus and Bacteroides dorei Reduce Gut Microbial Lipopolysaccharide Production and Inhibit Atherosclerosis. 2018 , 138, 2486-2498	159
754	New biomarker strategies to enable precision cardiovascular medicine. 2018 , 33, 535-539	1
753	Taxonomic classification for microbiome analysis, which correlates well with the metabolite milieu of the gut. 2018 , 18, 188	24
752	Bacterial butyrate prevents atherosclerosis. 2018 , 3, 1332-1333	25
751	Functional eubacteria species along with trans-domain gut inhabitants favour dysgenic diversity in oxalate stone disease. 2018 , 8, 16598	7
750	Pyrrolysine in archaea: a 22nd amino acid encoded through a genetic code expansion. 2018 , 2, 607-618	8
749	Trimethylamine N-oxide, a gut microbiota-dependent metabolite of choline, is positively associated with the risk of primary liver cancer: a case-control study. 2018 , 15, 81	18
748	23, 22 Calling the Microbiota to Control Atherosclerosis. 2018 , 49, 788-790	1
747	New insights on atherosclerosis: A cross-talk between endocannabinoid systems with gut microbiota. 2018 , 10, 129-137	15

746	Rules of engagement in the gut microbiome. 2018 , 24, 1642-1644	2
745	Is It Time to Use Probiotics to Prevent or Treat Obesity?. 2018 , 10,	55
744	Trimethylamine Oxide (TMAO): A New Toxic Kid on the Block. 2018 , 07,	3
743	Impact of vegan diets on gut microbiota: An update on the clinical implications. 2018 , 30, 200-203	13
742	Trimethylamine-N-oxide (TMAO)-induced atherosclerosis is associated with bile acid metabolism. 2018 , 17, 286	84
741	A Metabologenomic Approach Reveals Changes in the Intestinal Environment of Mice Fed on American Diet. 2018 , 19,	22
740	Trimethylamine-N-oxide (TMAO) as Novel Potential Biomarker of Early Predictors of Metabolic Syndrome. 2018 , 10,	98
739	The gut microbiota-derived metabolite trimethylamine N-oxide is elevated in Alzheimer's disease. 2018 , 10, 124	156
738	Altered Gut Flora and Gut Microbiome-Derived Metabolites in Heart Failure Patients in the Compensated and Decompensated Phases. 2018 , 83, 30-31	2
737	From the Eukaryotic Molybdenum Cofactor Biosynthesis to the Moonlighting Enzyme mARC. 2018 , 23,	10
736	Dietary Composition and Cardiovascular Risk: A Mediator or a Bystander?. 2018 , 10,	19
735	Gut Microbiota Is a Major Contributor to Adiposity in Pigs. 2018 , 9, 3045	29
734	Untargeted Metabolomics in the Discovery of Novel Biomarkers and Therapeutic Targets for Atherosclerotic Cardiovascular Diseases. 2018 , 18, 166-175	15
733	Development of the Gut Microbiome in Children, and Lifetime Implications for Obesity and Cardiometabolic Disease. 2018 , 5,	36
732	Gut Microbiome and Plasma Microbiome-Related Metabolites in Patients With Decompensated and Compensated Heart Failure. 2018 , 83, 182-192	50
731	Effects of Gut Bacteria Depletion and High-Na and Low-K Intake on Circulating Levels of Biogenic Amines. 2019 , 63, e1801184	6
730	Trimethylamine in postmortem tissues as a predictor of postmortem interval estimation using the GC method. 2018 , 35, 80-85	4
729	Tree Nut Consumption and Adipose Tissue Mass: Mechanisms of Action. 2018 , 2, nzy069	11

728	Berberine treatment reduces atherosclerosis by mediating gut microbiota in apoE ^{-/-} mice. 2018 , 107, 1556-1563	48
727	Pathogenic functions of host microbiota. 2018 , 6, 174	37
726	Monoamine Oxidases and Flavin-Containing Monooxygenases. 2018 , 87-125	4
725	The "Gut Feeling": Breaking Down the Role of Gut Microbiome in Multiple Sclerosis. 2018 , 15, 109-125	71
724	A Metabolomic-Based Evaluation of the Role of Commensal Microbiota throughout the Gastrointestinal Tract in Mice. 2018 , 6,	18
723	Implication of Trimethylamine N-Oxide (TMAO) in Disease: Potential Biomarker or New Therapeutic Target. 2018 , 10,	222
722	Hepatic Expression of PEMT, but Not Dietary Choline Supplementation, Reverses the Protection against Atherosclerosis in Pemt ^{-/-} /Ldlr ^{-/-} Mice. 2018 , 148, 1513-1520	4
721	From old uraemic toxins to new uraemic toxins: place of 'omics'. 2018 , 33, iii2-iii5	7
720	Insulin Resistance in HIV-Patients: Causes and Consequences. 2018 , 9, 514	12
719	The Effects of Landscape Urbanization on the Gut Microbiome: An Exploration Into the Gut of Urban and Rural White-Crowned Sparrows. 2018 , 6,	24
718	Gut Colonization with Methanogenic Archaea Lowers Plasma Trimethylamine N-oxide Concentrations in Apolipoprotein e ^{-/-} Mice. 2018 , 8, 14752	36
717	Urinary metabonomic study of patients with acute coronary syndrome using UPLC-QTOF/MS. 2018 , 1100-1101, 122-130	14
716	Diet, Microbes, and Murine Atherosclerosis. 2018 , 38, 2269-2271	8
715	Serum Trimethylamine N-Oxide Concentration Is Positively Associated With First Stroke in Hypertensive Patients. 2018 , 49, 2021-2028	69
714	Trimethylamine N-Oxide and Risk of Cardiovascular Disease and Mortality. 2018 , 7, 207-213	45
713	The Microbiome and Endothelial Function. 2018 , 123, 1015-1016	2
712	Microbiota-Derived Trimethylamine. 2018 , 123, 1112-1114	7
711	Interactions between Roseburia intestinalis and diet modulate atherogenesis in a murine model. 2018 , 3, 1461-1471	170

710	Trimethylamine -Oxide: A Link among Diet, Gut Microbiota, Gene Regulation of Liver and Intestine Cholesterol Homeostasis and HDL Function. 2018 , 19,	87
709	Microbially Produced Imidazole Propionate Impairs Insulin Signaling through mTORC1. 2018 , 175, 947-961.e17	267
708	Gut Microbial Product Predicts Cardiovascular Risk in Chronic Kidney Disease Patients. 2018 , 48, 269-277	21
707	Interaction between gut microbiome and cardiovascular disease. 2018 , 214, 153-157	69
706	Role of Gut Microbiota in the Pathogenesis of Cardiovascular Diseases and Metabolic Syndrome. 2018 , 14, 567-574	9
705	An Interleukin-23-Interleukin-22 Axis Regulates Intestinal Microbial Homeostasis to Protect from Diet-Induced Atherosclerosis. 2018 , 49, 943-957.e9	82
704	Modulation of gut microbiome in nonalcoholic fatty liver disease: pro-, pre-, syn-, and antibiotics. 2018 , 56, 855-867	21
703	Revealing the composition of the eukaryotic microbiome of oyster spat by CRISPR-Cas Selective Amplicon Sequencing (CCSAS). 2021 , 9, 230	0
702	Dietary Regulation of Gut-Brain Axis in Alzheimer's Disease: Importance of Microbiota Metabolites. 2021 , 15, 736814	0
701	Gut Metabolite Trimethylamine-N-Oxide in Atherosclerosis: From Mechanism to Therapy. 2021 , 8, 723886	8
700	Serum lysophospholipidome of dietary origin as a suitable susceptibility/risk biomarker of human hypercholesterolemia: A cross-sectional study.. 2021 , 41, 489-499	0
699	Gastrointestinal tract microbial community of <i>Babylonia areolata</i> and its diversity are closely correlated with the outbreak of disease.	
698	Quantification of choline in serum and plasma using a clinical nuclear magnetic resonance analyzer. 2021 , 524, 106-112	0
697	Temporal Course of Plasma Trimethylamine N-Oxide (TMAO) Levels in ST-Elevation Myocardial Infarction. 2021 , 10,	1
696	Spermidine Affects Cardiac Function in Heart Failure Mice by Influencing the Gut Microbiota and Cardiac Galectin-3.. 2021 , 8, 765591	0
695	Metabolomic Profiles Associated With Incident Ischemic Stroke. 2021 ,	1
694	Effect of prophylactic dextrose gel on the neonatal gut microbiome. 2021 ,	0
693	Average gut flora in healthy Japanese subjects stratified by age and body mass index.. 2022 , 41, 45-53	1

692	A novel real-time TMAO detection method based on microbial electrochemical technology.. 2021 , 144, 108038	1
691	Understanding of Gut Microbial Ecology for New Therapeutics. 2021 , 277-289	
690	Unveiling the Metabolic Modulatory Effect of Anthocyanin and Gut Microbiota Involvement. 2021 , 339-384	0
689	Synergistic Interactions Among Microbial Communities. 2021 , 1-37	
688	A Comprehensive Review on the Role of the Gut Microbiome in Human Neurological Disorders.. 2022 , e0033820	12
687	The Influence of Animal- or Plant-Based Diets on Blood and Urine Trimethylamine-N-Oxide (TMAO) Levels in Humans.. 2022 , 1	3
686	Role of Biological Sex in the Cardiovascular-Gut Microbiome Axis.. 2021 , 8, 759735	6
685	The Influence of the Western Diet on Microbiota and Gastrointestinal Immunity.. 2022 ,	0
684	A comprehensive study on the relieving effect of on the intestinal flora and metabolic disorder in -chlorphenylalanine induced insomnia rats.. 2022 , 60, 131-143	1
683	Gut microbiota - nutrition and health.. 2022 , 100, 42-46	1
682	Emerging targetome and signalome landscape of gut microbial metabolites.. 2022 , 34, 35-58	3
681	Diet dependent impact of benzoate on diabetes and obesity in mice.. 2021 , 194, 35-35	0
680	Intestinal barrier dysfunction is associated with elevated right atrial pressure in patients with advanced decompensated heart failure.. 2021 , 245, 78-80	0
679	The influences of ambient fine particulate matter constituents on plasma hormones, circulating TMAO levels and blood pressure: A panel study in China.. 2021 , 296, 118746	0
678	Analysis of protein association networks regulating the neuroactive metabolites production in Lactobacillus species.. 2021 , 154, 109978	0
677	Microbial Therapeutics in Liver Disease. 2021 ,	0
676	Gut microbiota and cardiovascular diseases axis: a review. 2021 ,	1
675	Frontiers in inflammation and cardiovascular disease. 2021 , 41, 45-48	

674	The Nutritional Supplement -Alpha Glycerylphosphorylcholine Promotes Atherosclerosis.. 2021 , 22,	1
673	The Metabolic Role and Therapeutic Potential of the Microbiome.. 2022 ,	3
672	The Association of Plasma Trimethylamine N-Oxide with Coronary Atherosclerotic Burden in Patients with Type 2 Diabetes Among a Chinese North Population.. 2022 , 15, 69-78	1
671	Gut Microbiota in Heart Failure Patients With Preserved Ejection Fraction (GUMPTION Study).. 2021 , 8, 803744	3
670	Gut Microbial Trimethylamine is Elevated in Alcohol-Associated Hepatitis and Contributes to Ethanol-Induced Liver Injury in Mice.. 2022 , 11,	1
669	Special Issue: Microbiota-Gut-Brain Axis.. 2022 , 10,	0
668	Bicyclol Alleviates Atherosclerosis by Manipulating Gut Microbiota.. 2022 , e2105021	1
667	Egg consumption and risks of all-cause and cause-specific mortality: a dose-response meta-analysis of prospective cohort studies.. 2022 ,	2
666	Gut Microbiota as a Source of Uremic Toxins.. 2022 , 23,	3
665	An electroceutical approach enhances myelination via upregulation of lipid biosynthesis in the dorsal root ganglion.. 2021 ,	1
664	Experimental Periodontitis Deteriorated Atherosclerosis Associated With Trimethylamine N-Oxide Metabolism in Mice.. 2021 , 11, 820535	0
663	alleviates DSS-induced intestinal barrier dysfunction and inflammation in humanized mice. 2021 ,	5
662	Unlike Glycerophosphocholine or Choline Chloride, Dietary Phosphatidylcholine Does Not Increase Plasma Trimethylamine--Oxide Levels in Sprague-Dawley Rats.. 2022 , 12,	1
661	Rapid prototyping of metabolites detection by bacterial biosensors in human fecal samples.	0
660	The Isocaloric Substitution of Plant-Based and Animal-Based Protein in Relation to Aging-Related Health Outcomes: A Systematic Review.. 2022 , 14,	0
659	Food-gut microbiota interactions. 2022 , 233-256	
658	Comparative genomics and proteomics of Eubacterium maltosivorans: functional identification of trimethylamine methyltransferases and bacterial microcompartments in a human intestinal bacterium with a versatile lifestyle.. 2022 ,	2
657	Immune Mechanisms of Plaque Instability.. 2021 , 8, 797046	2

- 656 Proteomics-Based Identification of Interaction Partners of the Xenobiotic Detoxification Enzyme FMO3 Reveals Involvement in Urea Cycle.. **2022**, 10,
- 655 Gut bacterial nutrient preferences quantified in vivo. 1
- 654 Gut Microbial Trimethylamine is Elevated in Alcohol-Associated Hepatitis and Contributes to Ethanol-Induced Liver Injury in Mice.
- 653 Fasting Blood Glucose but not TMAO is Associated with In-Stent Restenosis in Patients with Acute Coronary Syndrome. **2022**,
- 652 Atherosclerosis amelioration by allicin in raw garlic through gut microbiota and trimethylamine-N-oxide modulation.. **2022**, 8, 4 3
- 651 Relationship between red meat metabolite trimethylamine N-oxide and cardiovascular disease. **2022**, 6, 3
- 650 Gut microbe-targeted choline trimethylamine lyase inhibition improves obesity via rewiring of host circadian rhythms.. **2022**, 11, 3
- 649 Pharmacological Targeting Macrophage Phenotype Via Gut-Kidney Axis Ameliorates Renal Fibrosis in Mice.
- 648 TMAO-Activated Hepatocyte-Derived Exosomes Impair Angiogenesis Repressing CXCR4.. **2021**, 9, 804049 1
- 647 Emerging Interrelationship Between the Gut Microbiome and Cellular Senescence in the Context of Aging and Disease: Perspectives and Therapeutic Opportunities.. **2022**, 1 1
- 646 The Microbiome of the Joint. **2022**, 101-107
- 645 Gut Dysbiosis and Immune System in Atherosclerotic Cardiovascular Disease (ACVD).. **2022**, 10, 4
- 644 Trimethylamine N-oxide predicts stroke severity in diabetic patients with acute ischaemic stroke and is related to glycemic variability.. **2022**, 1
- 643 Atherosclerosis: Known and unknown.. **2022**, 4
- 642 Gut Microbiome and Organ Fibrosis.. **2022**, 14, 1
- 641 Multifaceted applications of genetically modified microorganisms: A biotechnological revolution.. **2022**,
- 640 Circulating trimethylamine N-oxide levels following fish or seafood consumption.. **2022**, 1 4
- 639 Prenatal and Postnatal Choline Supplementation in Fetal Alcohol Spectrum Disorder.. **2022**, 14, 3

638	Systematic Review of the Effects of Exercise and Physical Activity on the Gut Microbiome of Older Adults.. 2022 , 14,	3
637	Food For Thought: The Emerging Role of Intestinal Microbiota in Pulmonary Arterial Hypertension.. 2022 ,	0
636	Interplay between Dysbiosis of Gut Microbiome, Lipid Metabolism, and Tumorigenesis: Can Gut Dysbiosis Stand as a Prognostic Marker in Cancer?. 2022 , 2022, 2941248	4
635	Balancing the Equation: A Natural History of Trimethylamine and Trimethylamine--oxide.. 2022 ,	1
634	Gut Microbiota and Their Metabolites in Stroke: A Double-Edged Sword.. 2022 , STROKEAHA121036800	2
633	Site-Specific Photochemical Reaction for Improved C=C Location Analysis of Unsaturated Lipids by Ultraviolet Photodissociation.. 2022 , 2022, 9783602	0
632	Maternal microbiota-derived metabolic profile in fetal murine intestine, brain and placenta.. 2022 , 22, 46	4
631	Trimethylamine N-Oxide Promotes Abdominal Aortic Aneurysm Formation by Aggravating Aortic Smooth Muscle Cell Senescence in Mice.. 2022 , 1	1
630	Characterization of two new strains of Lactococcus lactis for their probiotic efficacy over commercial synbiotics consortia.. 2022 , 1	0
629	Aflatoxin B1 causes oxidative stress and apoptosis in sheep testes associated with disrupting rumen microbiota.. 2022 , 232, 113225	0
628	Dietary soya saponin improves the lipid metabolism and intestinal health of laying hens.. 2021 , 101, 101663	1
627	Comparative study on the weight loss and lipid metabolism by tea polyphenols in diet induced obese C57BL/6J pseudo germ free and conventionalized mice. 2022 , 11, 697-710	0
626	Role of the microbiota in hypertension and antihypertensive drug metabolism. 2021 ,	2
625	The gut metabolite, trimethylamine N-oxide inhibits protein folding by affecting cis-trans isomerization and induces cell cycle arrest.. 2021 , 79, 12	1
624	Microbial metabolite delta-valerobetaine is a diet-dependent obesogen.. 2021 , 3, 1694-1705	7
623	Understanding the Role of the Gut Microbiome and Microbial Metabolites in Non-Alcoholic Fatty Liver Disease: Current Evidence and Perspectives.. 2021 , 12,	9
622	Intestinal Barrier and Permeability in Health, Obesity and NAFLD.. 2021 , 10,	9
621	Insights into the gastrointestinal tract microbiomes of Indian population. 2019 , 44,	

620	Homeostasis and dysbiosis of the gut microbiome in health and disease. 2019 , 44,	25
619	Approaches in untargeted metabolomics. 2022 , 237-262	1
618	Gut microbiota-derived metabolites in host physiology. 2022 , 515-534	
617	Diet-gut microbiota interactions on cardiovascular disease.. 2022 , 20, 1528-1540	1
616	Intestinal microbiota research from a global perspective.. 2022 , 10, goac010	1
615	Deficiency of Proline/Serine-Rich Coiled-Coil Protein 1 (PSRC1) Accelerates Trimethylamine N-Oxide-Induced Atherosclerosis in ApoE $\sup&g\>/-\&g\>$ Mice.	
614	Pig and Mouse Models of Hyperlipidemia and Atherosclerosis.. 2022 , 2419, 379-411	0
613	TMAO as a Novel Predictor of Major Adverse Vascular Events and Recurrence in Patients with Large Artery Atherosclerotic Ischemic Stroke.. 2022 , 28, 10760296221090503	1
612	Understanding the Small World: The Microbes. 2022 , 1-61	0
611	Preliminary Report on Intestinal Flora Disorder, Faecal Short-Chain Fatty Acid Level Decline and Intestinal Mucosal Tissue Weakening Caused by Litchi Extract to Induce Systemic Inflammation in HFA Mice.. 2022 , 14,	1
610	Diet-Induced High Serum Levels of Trimethylamine-N-oxide Enhance the Cellular Inflammatory Response without Exacerbating Acute Intracerebral Hemorrhage Injury in Mice.. 2022 , 2022, 1599747	1
609	Intertwined Relationship of Mitochondrial Metabolism, Gut Microbiome and Exercise Potential.. 2022 , 23,	0
608	Relationships Among Gut Microbiota, Ischemic Stroke and Its Risk Factors: Based on Research Evidence. Volume 15, 2003-2023	
607	The Integration of Metabolomic and Proteomic Analyses Revealed Alterations in Inflammatory-Related Protein Metabolites in Endothelial Progenitor Cells Subjected to Oscillatory Shear Stress.. 2022 , 13, 825966	0
606	Gut microbiota-dependent metabolite trimethylamine N-oxide (TMAO) and cardiovascular risk in patients with suspected functionally relevant coronary artery disease (fCAD).. 2022 , 1	1
605	Gut bacterial dysbiosis and instability is associated with the onset of complications and mortality in COVID-19.. 2022 , 14, 2031840	10
604	Red meat consumption and all-cause and cardiovascular mortality: results from the UK Biobank study.. 2022 , 1	0
603	Probiotics for gallstones prevention in bariatric surgery patients: A prospective randomized trial.. 2022 ,	1

602	Metabolic Syndrome and Its Components in Psoriatic Arthritis.. 2022 , 14, 7-16	0
601	Metabolic Reprogramming, Gut Dysbiosis, and Nutrition Intervention in Canine Heart Disease.. 2022 , 9, 791754	1
600	Does the gut microbiome mediate antipsychotic-induced metabolic side effects in schizophrenia?. 2022 , 1-15	0
599	Alterations of oral microbiota and impact on the gut microbiome in type 1 diabetes mellitus revealed by multi-omic analysis.	
598	Recent advances in metabolomics analysis for early drug development.. 2022 ,	3
597	TMAO-Activated Hepatocyte-Derived Exosomes Are Widely Distributed in Mice with Different Patterns and Promote Vascular Inflammation.. 2022 , 2022, 5166302	
596	Dosage of Dual-Protein Nutrition Differentially Impacts the Formation of Atherosclerosis in Mice.. 2022 , 14,	
595	Ginkgo biloba extract ameliorates atherosclerosis via rebalancing gut flora and microbial metabolism.. 2022 ,	1
594	Anti-Diabetic Effects of Ethanol Extract from in High-Fat/Sucrose Diet and Streptozotocin-Induced Diabetic Mice by Modulating Gut Microbiota.. 2022 , 11,	1
593	The Interplay Between Gut Microbiota and miRNAs in Cardiovascular Diseases.. 2022 , 9, 856901	1
592	The Gut Microbiome and their Metabolites in Human Blood Pressure Variability.	0
591	Fasting-Mimicking Diet Reduces Trimethylamine N-Oxide Levels and Improves Serum Biochemical Parameters in Healthy Volunteers.. 2022 , 14,	1
590	Metabolomics of Multimorbidity: Could It Be the ?. 2022 , 9, 848971	
589	Trimethylamine N-Oxide (TMAO) and Trimethylamine (TMA) Determinations of Two Hadal Amphipods. 2022 , 10, 454	0
588	Associations of the T329S Polymorphism in Flavin-Containing Monooxygenase 3 With Atherosclerosis and Fatty Liver Syndrome in 90-Week-Old Hens.. 2022 , 9, 868602	0
587	Seeking Relevant Biomarkers in Common Variable Immunodeficiency.. 2022 , 13, 857050	1
586	Pathophysiology of Atherosclerosis.. 2022 , 23,	14
585	Gut Microbiota Dysbiosis: Triggers, Consequences, Diagnostic and Therapeutic Options.. 2022 , 10,	4

584	Diet, Fecal Microbiome, and Trimethylamine N-Oxide in a Cohort of Metabolically Healthy United States Adults.. 2022 , 14,	3
583	Effects of Short-Chain Fatty Acid Modulation on Potentially Diarrhea-Causing Pathogens in Yaks Through Metagenomic Sequencing.. 2022 , 12, 805481	0
582	NIR-II Fluorescent Probe for Detecting Trimethylamine Based on Intermolecular Charge Transfer.. 2022 , e202200113	0
581	Effects of Lean Pork on Microbiota and Microbial-Metabolite Trimethylamine-N-Oxide: A Randomized Controlled Non-Inferiority Feeding Trial Based on the Dietary Guidelines for Americans.. 2022 , e2101136	0
580	Association of Uremic Solutes With Cardiovascular Death in Diabetic Kidney Disease.. 2022 ,	0
579	Integrated metagenomics identifies a crucial role for trimethylamine-producing Lachnospirillum in promoting atherosclerosis.. 2022 , 8, 11	1
578	Gut Microbiota Mediates the Susceptibility of Mice to Sepsis-Associated Encephalopathy by Butyric Acid.. 2022 , 15, 2103-2119	3
577	High Betaine and Dynamic Increase of Betaine Levels Are Both Associated With Poor Prognosis of Patients With Pulmonary Hypertension.. 2022 , 9, 852009	0
576	Metabolism disorder promotes isoproterenol-induced myocardial injury in mice with high temperature and high humidity and high-fat diet.. 2022 , 22, 133	0
575	Alternations in the gut microbiota and metabolome with newly diagnosed unstable angina. 2021 ,	1
574	Exploring blood microbial communities and their influence on human cardiovascular disease.. 2022 , e24354	5
573	Associations between the Maternal Exposome and Metabolome during Pregnancy.. 2022 , 130, 37003	1
572	Interplay Between Diet, the Gut Microbiome, and Atherosclerosis: Role of Dysbiosis and Microbial Metabolites on Inflammation and Disordered Lipid Metabolism.. 2022 , 108991	3
571	CCFM8631 Alleviates Hypercholesterolaemia Caused by the Paigen Atherogenic Diet by Regulating the Gut Microbiota.. 2022 , 14,	0
570	Comparison of Intestinal Microbiota Between Healthy and MMVD Chihuahuas Using 16S rRNA Gene Amplicon Sequencing.. 2022 , 9, 846492	
569	Possible correlation between high circulatory levels of trimethylamine-N-oxide and 2177G>C polymorphisms of hepatic flavin containing monooxygenase 3 in Kurdish Population with non-alcoholic fatty liver disease.. 2022 , 1	0
568	Integration of the Human Gut Microbiome and Serum Metabolome Reveals Novel Biological Factors Involved in the Regulation of Bone Mineral Density.. 2022 , 12, 853499	0
567	Lipids and lipoproteins in cardiovascular diseases: a classification.. 2022 ,	1

566	Gut microbiota metabolic characteristics in coronary artery disease patients with hyperhomocysteine.. 2022 , 60, 419	0
565	TMAO and Gut Microbial-Derived Metabolites TML and BB Are Not Associated with Thrombotic Risk in Patients with Venous Thromboembolism.. 2022 , 11,	1
564	Experimental manipulation of microbiota reduces host thermal tolerance and fitness under heat stress in a vertebrate ectotherm.. 2022 ,	1
563	Profiling How the Gut Microbiome Modulates Host Xenobiotic Metabolism in Response to Benzo[π]pyrene and 1-Nitropyrene Exposure.. 2022 ,	0
562	and Attenuate Choline-Induced Plasma Trimethylamine N-Oxide Production by Modulating Gut Microbiota in Mice.. 2022 , 14,	4
561	Novel Collaborative Weighted Non-negative Matrix Factorization Improves Prediction of Disease-Associated Human Microbes.. 2022 , 13, 834982	0
560	Microbiota-targeted therapies in inflammation resolution.. 2022 , 101599	1
559	Prediction of Low-Dose Aspirin-Induced Gastric Toxicity Using Nuclear Magnetic Resonance Spectroscopy-Based Pharmacometabolomics in Rats.. 2022 , 27,	0
558	Calorie restriction improves metabolic state independently of gut microbiome composition: a randomized dietary intervention trial.. 2022 , 14, 30	2
557	The role of microbiota in nonalcoholic fatty liver disease.. 2022 , e13768	3
556	Vine Tea (<i>Ampelopsis grossedentata</i>) extract attenuates CCl ₄ -induced liver injury by restoring gut microbiota dysbiosis in mice.. 2022 , e2100892	1
555	Comparison between Egg Intake versus Choline Supplementation on Gut Microbiota and Plasma Carotenoids in Subjects with Metabolic Syndrome.. 2022 , 14,	2
554	The Interplay Between Nonalcoholic Fatty Liver Disease and Kidney Disease.. 2022 , 26, 213-227	0
553	Future Directions for Dialysis. 2022 , 2, 153-162	1
552	Dietary Fats and the Gut Microbiota: Their impacts on lipid-induced metabolic syndrome. 2022 , 91, 105026	1
551	The microbial metabolite trimethylamine N-oxide promotes antitumor immunity in triple-negative breast cancer.. 2022 ,	8
550	Relationship Between Plasma Neurofilament Light Chain, Gut Microbiota, and Dementia: A Cross-Sectional Study.. 2022 , 86, 1323-1335	0
549	Choline diet improves serum lipid parameters and alters egg composition in breeder ducks.. 2022 ,	0

548	PRMT5 critically mediates TMAO-induced inflammatory response in vascular smooth muscle cells.. 2022 , 13, 299	6
547	Gut Microbiome: Profound Implications for Diet and Disease. 1-16	0
546	Pharmacological targeting macrophage phenotype via gut-kidney axis ameliorates renal fibrosis in mice.. 2022 , 106161	0
545	The Influence of Gut Dysbiosis in the Pathogenesis and Management of Ischemic Stroke.. 2022 , 11,	6
544	Effect of diets containing full-fat <i>Hermetia illucens</i> on rainbow trout microbiota: A dual cultivation-independent approach with DGGE and NGS. 2022 , 553, 738109	0
543	Influence of <i>Proteus</i> sp. on Trimethylamine N- Oxide production via the Choline Metabolism Pathway and the Formulation of a Predictive Model to Assess the Risk of Coronary Artery Disease in Indian Patients. 2022 , 16, 233-243	
542	Methamphetamine induces intestinal injury by altering gut microbiota and promoting inflammation in mice.. 2022 , 116011	0
541	No association in maternal serum levels of TMAO and its precursors in pre-eclampsia and in non-complicated pregnancies.. 2022 , 28, 74-80	
540	Effects of choline chloride on intestinal microbiota and its association with liver fat accumulation in zebrafish. 2022 , 24, 101096	
539	Long term exposure of human gut microbiota with high and low emulsifier sensitivity to soy lecithin in M-SHIME model.	0
538	The Gut Microbiome and Hepatocellular Carcinoma. 2021 ,	3
537	Gut Microbiota and Complications of Type-2 Diabetes.. 2021 , 14,	11
536	Bile acid coordinates microbiota homeostasis and systemic immunometabolism in cardiometabolic diseases. 2021 ,	3
535	Metabolic Syndrome and PCOS: Pathogenesis and the Role of Metabolites.. 2021 , 11,	9
534	Gut Metabolite Trimethylamine N-Oxide Protects INS-1 β Cell and Rat Islet Function under Diabetic Glucolipotoxic Conditions.. 2021 , 11,	1
533	T329S Mutation in the Gene Alleviates Lipid Metabolic Diseases in Chickens in the Late Laying Period.. 2021 , 12,	1
532	The Role of Dietary Fats in the Development and Prevention of Necrotizing Enterocolitis.. 2021 , 14,	1
531	Reactive oxygen species limit intestinal mucosa-bacteria homeostasis in vitro. 2021 , 11, 23727	1

- 530 Alleviates Cognitive Impairment in APP/PS1 Mice by Regulating Drug-Responsive Bacteria and Their Corresponding Microbial Metabolites.. **2021**, 12, 766120
- 529 Population study of the gut microbiome: associations with diet, lifestyle, and cardiometabolic disease.. **2021**, 13, 188 1
- 528 Rhubarb Enema Decreases Circulating Trimethylamine N-Oxide Level and Improves Renal Fibrosis Accompanied With Gut Microbiota Change in Chronic Kidney Disease Rats.. **2021**, 12, 780924 1
- 527 The microbial gbu gene cluster links cardiovascular disease risk associated with red meat consumption to microbiota L-carnitine catabolism.. **2021**, 3
- 526 Stressors and Resilience: An Integrative Model for Understanding Chronic Kidney Disease. **2021**, 27, 267-272
- 525 A Detection Systems For Molting Scylla Paramamosain Based On YOLO v4. **2021**, 0
- 524 Association of serum choline levels and all-cause mortality risk in adults with hypertension: a nested case-control study.. **2021**, 18, 108
- 523 Nutrition and Physical Activity-Induced Changes in Gut Microbiota: Possible Implications for Human Health and Athletic Performance.. **2021**, 10, 4
- 522 Innovative Approaches to Assess Intermediate Cardiovascular Risk Subjects: A Review From Clinical to Metabolomics Strategies.. **2021**, 8, 788062 1
- 521 OMICS in Chronic Kidney Disease: Focus on Prognosis and Prediction.. **2021**, 23, 2
- 520 A Review of The Contribution of Gut-Dependent Microbiota Derived Marker, Trimethylamine N-oxide (TMAO), in Coronary Artery Disease. **2021**, 9, 712-721
- 519 Regulation of common neurological disorders by gut microbial metabolites. **2021**, 4
- 518 Probiotics in prevention and treatment of cardiovascular diseases. **2021**, 67, 77-85
- 517 Toll-Like Receptor 4: A Macrophage Cell Surface Receptor Is Activated By Trimethylamine-N-Oxide. **2021**, 23, 516-522 1
- 516 Resazurin-based high-throughput screening method for the discovery of dietary phytochemicals to target microbial transformation of L-carnitine into trimethylamine, a gut metabolite associated with cardiovascular disease.. **2022**, 0
- 515 Atherosclerosis and depression. Obvious and non-obvious relationships. Part II. **2022**, 17, 14
- 514 Early life fecal microbiome and metabolome dynamics in response to an intervention with infant formula containing specific prebiotics and postbiotics.. **2022**, 1
- 513 Bibliometric and Visual Analysis on Metabolomics in Coronary Artery Disease Research.. **2022**, 9, 804463 1

512	Flavin-Containing Monooxygenase 3 (FMO3) Is Critical for Dioxin-Induced Reorganization of the Gut Microbiome and Host Insulin Sensitivity.. 2022 , 12,	0
511	Aging Microbiota-Gut-Brain Axis in Stroke Risk and Outcome.. 2022 , 130, 1112-1144	5
510	Gut Microbiota Dysbiosis and Altered Bile Acid Catabolism Lead to Metabolic Disorder in Psoriasis Mice.. 2022 , 13, 853566	2
509	The Role of the Gut Microbiota and Microbial Metabolites in the Pathogenesis of Alzheimer's Disease.. 2022 ,	0
508	Metabolomics of Arterial Stiffness. 2022 , 12, 370	1
507	Multiple techniques collectively reveal the attenuation of kidney injury by trimethylamine N-oxide (TMAO) production manipulation.. 2022 ,	1
506	Black raspberry extract can lower serum LDL cholesterol via modulation of gut microbial composition and serum bile acid profile in rats fed trimethylamine-N-oxide with a high-fat diet. 1	0
505	Choline Supplementation Does Not Promote Atherosclerosis in CETP-Expressing Male Apolipoprotein E Knockout Mice.. 2022 , 14,	1
504	Trimethylamine N-oxide reduction is related to probiotic strain specificity: A systematic review.. 2022 , 104, 29-35	0
503	Lessons learned by an organic chemist entering the microbiome field.. 2022 , 30, 435-438	
502	Mechanisms, therapeutic implications, and methodological challenges of gut microbiota and cardiovascular diseases: a position paper by the ESC Working Group on Coronary Pathophysiology and Microcirculation.. 2022 ,	2
501	The Emerging Role of the Gut Microbiome in Cardiovascular Disease: Current Knowledge and Perspectives. 2022 , 10, 948	1
500	Statistical Methods for Microbiome Compositional Data Network Inference: A Survey.. 2022 ,	1
499	Nonresolving inflammation redux.. 2022 , 55, 592-605	3
498	Relationship Between Plasma Lipopolysaccharides, Gut Microbiota, and Dementia: A Cross-Sectional Study.. 2022 ,	0
497	The Gut Axis Involvement in Heart Failure: Focus on Trimethylamine N-oxide.. 2022 , 40, 161-169	1
496	Anti-atherosclerotic effects of geraniin through the gut microbiota-dependent trimethylamine N-oxide (TMAO) pathway in mice.. 2022 , 101, 154104	4
495	Data_Sheet_1.pdf. 2020 ,	

494 Table_1.XLSX. 2019,

493 Data_Sheet_1.PDF. 2020,

492 Table_1.DOCX. 2020,

491 Table_1.DOCX. 2020,

490 Data_Sheet_1.docx. 2020,

489 Data_Sheet_1.PDF. 2020,

488 Data_Sheet_1.pdf. 2020,

487 Data_Sheet_2.zip. 2020,

486 Data_Sheet_3.zip. 2020,

485 Data_Sheet_1.PDF. 2019,

484 Data_Sheet_1.docx. 2020,

483 Data_Sheet_1.docx. 2018,

482 Data_Sheet_1.docx. 2018,

481 Data_Sheet_1.doc. 2020,

480 Data_Sheet_1.XLSX. 2018,

479 Data_Sheet_2.DOCX. 2018,

478 Data_Sheet_1.docx. 2020,

477 Image_1.TIF. 2020,

476 Image_2.TIF. **2020**,

475 Image_3.TIF. **2020**,

474 Image_4.TIF. **2020**,

473 Image_5.TIF. **2020**,

472 Image_6.TIF. **2020**,

471 Image_7.TIF. **2020**,

470 Table_1.DOCX. **2020**,

469 Table_2.DOCX. **2020**,

468 Table_3.DOCX. **2020**,

467 Table_4.DOCX. **2020**,

466 Table_5.DOCX. **2020**,

465 Image_1.TIF. **2020**,

464 Image_2.TIF. **2020**,

463 Presentation_1.pdf. **2019**,

462 Gut microbiome-mediated regulation of neuroinflammation.. **2022**, 76, 102177

2

461 Superior cervical ganglionectomy alters gut microbiota in rats.. **2022**, 14, 2037-2050

460 Sensor-Assisted Next-Generation Diagnostics: Emerging Concepts, Biomarkers, Technologies, and Challenges. **2022**, 1-37

459 Microbiota, Sports and Exercise Medicine. **2022**, 55-78

458	Diet-induced hypercholesterolemia in small laboratory animal models. 2022 , 343-370	
457	Soya saponin fails to improve the anti-oxidation and immune function of laying hens with antibiotics treated. 2022 , 101921	1
456	Microbiome Engineering for Metabolic Disorders. 2022 , 47-91	
455	Association of gut microbiota with idiopathic membranous nephropathy.. 2022 , 23, 164	0
454	Metformin Mitigates Sepsis-Related Neuroinflammation Modulating Gut Microbiota and Metabolites.. 2022 , 13, 797312	1
453	Effects of dietary rumen-protected choline supplementation on colostrum yields, quality, and choline metabolites from dairy cattle. 2022 ,	1
452	Messengers From the Gut: Gut Microbiota-Derived Metabolites on Host Regulation.. 2022 , 13, 863407	4
451	The Influence of Nutrition on Intestinal Permeability and the Microbiome in Health and Disease.. 2022 , 9, 718710	1
450	GutSkin Axis: Unravelling the Connection between the Gut Microbiome and Psoriasis. 2022 , 10, 1037	5
449	From cardiorenal syndromes to cardioneurology: a reflection of nephrologists on renocardiac syndromes.	1
448	Knowledge Mapping of the Links Between the Gut Microbiota and Heart Failure: A Scientometric Investigation (2006-2021).. 2022 , 9, 882660	1
447	From Tumor Cells to Endothelium and Gut Microbiome: A Complex Interaction Favoring the Metastasis Cascade. 2022 , 12,	
446	Microbial DNA enrichment promotes liver steatosis and fibrosis in the course of non-alcoholic steatohepatitis.. 2022 , e13827	1
445	The Role of Gut Microbiota in the Immunopathology of Atherosclerosis: focus on immune cells.. 2022 , e13174	
444	Host-microbial interactions in metabolic diseases: from diet to immunity.. 2022 , 1	1
443	Advanced Meditation and Vegan Diet Increased Acylglycines and Reduced Lipids Associated with Improved Health: A Prospective Longitudinal Study.. 2022 ,	0
442	Gut Microbiota and Bone Diseases: A Growing Partnership. 2022 , 13,	0
441	Circulating gut microbiota-related metabolites influence endothelium plaque lesion formation in ApoE knockout rats.. 2022 , 17, e0264934	0

- 440 The Microbiome and Gut Endocannabinoid System in the Regulation of Stress Responses and Metabolism. **2022**, 16,
- 439 Microbiome systems biology advancements for natural well-being.. **2022**, 155915
- 438 Constipation Is a Frequent Problem Associated with Vascular Complications in Patients with Type 2 Diabetes: A Cross-sectional Study.. **2022**, 61, 1309-1317
- 437 Recent Trends of Microbiota-Based Microbial Metabolites Metabolism in Liver Disease. **2022**, 9,
- 436 Transferrin predicts trimethylamine-N-oxide levels and is a potential biomarker of cardiovascular disease.. **2022**, 22, 209
- 435 Effects of the maternal gut microbiome and gut-placental axis on melatonin efficacy in alleviating cadmium-induced fetal growth restriction.. **2022**, 237, 113550
- 434 Rhamnolipids Regulate Lipid Metabolism, Immune Response, and Gut Microbiota in Rats.. **2022**, 9, 886256
- 433 Increased Relative Abundance of Is Associated With Reduced Cardiovascular Risk in an Obese Population.. **2022**, 9, 849005
- 432 NMR Metabolomics for Marker Discovery of Metabolic Syndrome. **2022**, 1-29
- 431 ?-?????????????????????????????. **2022**,
- 430 Novel Mechanisms and Therapeutic Targets for Ischemic Stroke: A Focus on Gut Microbiota. **2022**, 16,
- 429 Association between Plasma Trimethylamine N-Oxide Levels and Type 2 Diabetes: A Case Control Study. **2022**, 14, 2093
- 428 Promises of microbiome-based therapies.. **2022**, 76, 1379-1391
- 427 Association of Trimethylamine N-Oxide and Metabolites With Mortality in Older Adults.. **2022**, 5, e2213242
- 426 High Plasma Levels of Betaine, a Trimethylamine N-Oxide Related Metabolite, are Associated with Severity of Cirrhosis.. **2022**,
- 425 Intestinal Flora: A Potential New Regulator of Cardiovascular Disease. **2022**, 13, 753
- 424 Involvement of Gut Microbial Metabolites Derived from Diet on Host Energy Homeostasis. **2022**, 23, 5562
- 423 Integrated Analysis Reveals the Gut Microbial Metabolite TMAO Promotes Inflammatory Hepatocellular Carcinoma by Upregulating POSTN. **2022**, 10,

- 422 Trimethylamine-N-Oxide (TMAO) and Predicted Risk of Cardiovascular Events After Partial Nephrectomy.
- 421 A Systematic Review of Body Fluids Biomarkers Associated With Early Neurological Deterioration Following Acute Ischemic Stroke. 14, 0
- 420 Trimethylamine N-oxide reduces neurite density and plaque intensity in a murine model of Alzheimer's disease.
- 419 Effects of acute administration of trimethylamine N-oxide on endothelial function: a translational study. 2022, 12, 1
- 418 Ischemic stroke and intestinal flora: an insight into brain-gut axis. 2022, 27, 2
- 417 Comparison of Microbial Populations in the Blood of Patients With Myocardial Infarction and Healthy Individuals. 2022, 13, 3
- 416 Egg consumption and risk of acute stroke in the Million Veteran Program. 2022, 1
- 415 Effect of Chia Seed as Egg Replacer on Quality, Nutritional Value, and Sensory Acceptability of Sponge Cake. 2022, 2022, 1-11 1
- 414 Analysis of Gut Microbiota Signature and Microbe-Disease Progression Associations in Locally Advanced Non-Small Cell Lung Cancer Patients Treated With Concurrent Chemoradiotherapy. 2022, 12, 0
- 413 Small molecules in the big picture of gut microbiome-host cross-talk. 2022, 81, 104085 0
- 412 Aging, sex and NLRP3 inflammasome in cardiac ischaemic disease. 2022, 145, 107001 1
- 411 Dietary titanium dioxide particles (E171) promote diet-induced atherosclerosis through reprogramming gut microbiota-mediated choline metabolism in APOE^{-/-} mice. 2022, 436, 129179
- 410 Gut microbial metabolites in Parkinson's disease: Association with lifestyle, disease characteristics, and treatment status. 2022, 170, 105780 0
- 409 Gut Microbes in Cardiovascular Diseases. 2022, 237-248
- 408 Prebiotics and Probiotics as Functional Foods: Prospect and Promises in Metabolic Diseases. 2022, 155-186
- 407 The potential impact of the ketogenic diet on gut microbiota in the context of neurological disorders. 2022, 76, 234-242
- 406 Trimethylamine N-Oxide (TMAO) as a Biomarker. 2022, 1-20
- 405 Dysbiosis of Gut Microbiota Contributes to Uremic Cardiomyopathy via the Induction of Th1 Cells Expansion.

404	Effects of Gut Microbiota and Metabolites on Heart Failure and Its Risk Factors: A Two-Sample Mendelian Randomization Study. 9,	1
403	The intestinal immune system and gut barrier function in obesity and aging.	1
402	Bile Collected From the Normal Gallbladder of Patients During Surgery Has Simple Bacterial Flora. 2022,	
401	Factors shaping the abundance and diversity of the gut archaeome across the animal kingdom. 2022, 13,	0
400	Urine and Fecal ¹ H-NMR Metabolomes Differ Significantly between Pre-Term and Full-Term Born Physically Fit Healthy Adult Males. 2022, 12, 536	0
399	Time-limited diets and the gut microbiota in cardiometabolic disease.	1
398	Physiological Mechanisms of Hypertension and Cardiovascular Disease in End-Stage Kidney Disease.	0
397	Targeting Trimethylamine N-Oxide: A New Therapeutic Strategy for Alleviating Atherosclerosis. 9,	1
396	Detection of the UV-vis silent biomarker trimethylamine-N-oxide via outer-sphere interactions in a lanthanide metal-organic framework. 2022, 5,	2
395	The Gut Microbiota and Vascular Aging: A State-of-the-Art and Systematic Review of the Literature. 2022, 11, 3557	2
394	Targeting the gut to prevent and counteract metabolic disorders and pathologies during aging. 1-26	0
393	The Gut Microbiota (Microbiome) in Cardiovascular Disease and Its Therapeutic Regulation. 12,	4
392	Current State and Challenges of the Global Outcomes of Dental Caries Research in the Meta-Omics Era. 12,	4
391	Faecal Microbiota Transplantation and Chronic Kidney Disease. 2022, 14, 2528	1
390	Classification of Trimethylamine-N-Oxide, a cardiometabolic disease biomarker, by Raman Spectroscopy and Support Vector Machines.	0
389	Inhibition of Trimethylamine N-oxide attenuates neointimal formation through reduction of inflammasome and oxidative stress in a mouse model of carotid artery ligation.	1
388	Utility of SIFT-MS to evaluate volatile organic compounds in nephropathic patients' breath. 2022, 12,	
387	Vegetarianism, Microbiota and Cardiovascular health: Looking back, and forward.	1

386	The Metabolic Profile Elucidation of <i>Lonicera japonica</i> Flos Water Extract and the Metabolic Characteristics Evaluation Of Bioactive Compounds in Human Gastrointestinal Tract in vitro. 2022 , 114906	0
385	Silencing the Tlr4 Gene Alleviates Methamphetamine-Induced Hepatotoxicity by Inhibiting Lipopolysaccharide-Mediated Inflammation in Mice. 2022 , 23, 6810	1
384	Plasma carnitine, choline, βbutyrobetaine, and trimethylamine-N-oxide, but not zonulin, are reduced in overweight/obese patients with pre/diabetes or impaired glycemia.	0
383	Shift in the skin microbiome among individuals presenting with filarial lymphedema compared to non-filarial healthy individuals in Ghana. 2022 , 16, e01237	
382	Deficiency of proline/serine-rich coiled-coil protein 1 (PSRC1) accelerates trimethylamine N-oxide-induced atherosclerosis in ApoE ^{-/-} mice. 2022 , 170, 60-74	1
381	Rethinking healthy eating in light of the gut microbiome. 2022 , 30, 764-785	7
380	Dynamic change of fecal microbiota and metabolomics in a polymicrobial murine sepsis model. 2022 , 9,	
379	Gut microbiome and type 2 diabetes. 2022 ,	
378	Associations between the gut microbiome, gut microbiology and heart failure: Current understanding and future directions. 2022 , 17, 100150	
377	Gut Microbiota-Derived Metabolites and Cardiovascular Disease Risk: A Systematic Review of Prospective Cohort Studies. 2022 , 14, 2654	1
376	Integrating Choline and Specific Intestinal Microbiota to Classify Type 2 Diabetes in Adults: A Machine Learning Based Metagenomics Study. 13,	0
375	Gut Microbiota and Sex Hormones: Crosstalking Players in Cardiometabolic and Cardiovascular Disease. 2022 , 23, 7154	0
374	Bile acid metabolism and signaling, the microbiota, and metabolic disease. 2022 , 108238	1
373	Fecal Microbiota Transplantation as New Therapeutic Avenue for Human Diseases. 2022 , 11, 4119	2
372	Long-Term Dietary Effects on Human Gut Microbiota Composition Employing Shotgun Metagenomics Data Analysis. 2101098	0
371	Gut microbe-derived metabolite trimethylamine N-oxide activates PERK to drive fibrogenic mesenchymal differentiation. 2022 , 25, 104669	1
370	Trimethylamine N-Oxide Promotes Cell Proliferation and Angiogenesis in Colorectal Cancer. 2022 , 2022, 1-7	2
369	Nutrition for precision health: The time is now. 2022 , 30, 1335-1344	0

368	Relation of Statin Use to Gut Microbial Trimethylamine N-Oxide and Cardiovascular Risk. 2022 ,	0
367	Microbial Metabolites in the Maturation and Activation of Dendritic Cells and Their Relevance for Respiratory Immunity. 13,	0
366	N-3 polyunsaturated fatty acids block the trimethylamine-N-oxide- ACE2- TMPRSS2 cascade to inhibit the infection of human endothelial progenitor cells by SARS-CoV-2. 2022 , 109102	0
365	Moringa oleifera Lam. Peptide Remodels Intestinal Mucosal Barrier by Inhibiting JAK-STAT Activation and Modulating Gut Microbiota in Colitis. 13,	0
364	Trimethylamine N-Oxide Reduces the Susceptibility of Escherichia coli to Multiple Antibiotics. 13,	
363	Microbial liberation of N-methylserotonin from orange fiber in gnotobiotic mice and humans. 2022 , 185, 2495-2509.e11	1
362	A Bibliometric Analysis of Research on the Links Between Gut Microbiota and Atherosclerosis. 9,	0
361	Associations of plasma carnitine, lysine, trimethyllysine and glycine with incident ischemic stroke: Findings from a nested case-control study. 2022 ,	0
360	Dynamic changes in the mouse hepatic lipidome following warm ischemia reperfusion injury.	
359	Serum Trimethylamine N-Oxide Levels Correlate with Metabolic Syndrome in Coronary Artery Disease Patients. 2022 , 19, 8710	1
358	Effects of intestinal bacteria on cardiovascular disease. 1-18	
357	The microbiome and gut homeostasis. 2022 , 377,	8
356	How Dietary Fibre, Acting via the Gut Microbiome, Lowers Blood Pressure.	1
355	Association Between the Gut Microbiome and Their Metabolites With Human Blood Pressure Variability. 2022 , 79, 1690-1701	1
354	A structural metagenomics pipeline for examining the gut microbiome. 2022 , 75, 102416	0
353	Age-related diseases, therapies and gut microbiome: a new frontier for healthy aging. 2022 , 111711	0
352	AI/ML-driven advances in untargeted metabolomics and exposomics for biomedical applications. 2022 , 3, 100978	1
351	High Exogenous Antioxidant, Restorative Treatment (Heart) for Prevention of the Six Stages of Heart Failure: The Heart Diet. 2022 , 11, 1464	1

- 350 Hepatocellular carcinoma and microbiota: Implications for clinical management and treatment. **2022**, 14, 1319-1332 1
- 349 Trimethylamin N-oxid. **2016**, 14, 34-37
- 348 Short-term acute constipation and not short-term acute diarrhea altered cardiovascular variables in male Wistar rats. **2022**, 37, 43-48
- 347 The dynamic effects of maternal high-calorie diet on glycolipid metabolism and gut microbiota from weaning to adulthood in offspring mice. 9, 0
- 346 Bacterial composition and colony structure of the lower respiratory tract in infants and children with recurrent wheezing: a case-control study. **2022**, 48,
- 345 Berberine treats atherosclerosis via a vitamine-like effect down-regulating Choline-TMA-TMAO production pathway in gut microbiota. **2022**, 7, 1
- 344 Metabolic control by the microbiome. **2022**, 14, 0
- 343 The associations between TMAO-related metabolites and blood lipids and the potential impact of rosuvastatin therapy. **2022**, 21, 1
- 342 Effect of Gut Microbiota-Derived Metabolites on Immune Checkpoint Inhibitor Therapy: Enemy or Friend?. **2022**, 27, 4799 1
- 341 The effect of trimethylamine N-oxide on the metabolism of visceral white adipose tissue in spontaneously hypertensive rat. **2022**, 11, 420-433
- 340 Gut-Flora-Dependent Metabolite Trimethylamine-N-Oxide Promotes Atherosclerosis-Associated Inflammation Responses by Indirect ROS Stimulation and Signaling Involving AMPK and SIRT1. **2022**, 14, 3338 5
- 339 Implantable Electroceutical Approach Improves Myelination by Restoring Membrane Integrity in a Mouse Model of Peripheral Demyelinating Neuropathy. 2201358 1
- 338 Gut microbiota mediate vascular dysfunction in a murine model of sleep apnea: effect of probiotics. 2200002 3
- 337 Trimethylamine N-oxide promotes demyelination in spontaneous hypertension rats through enhancing pyroptosis of oligodendrocytes. 14, 0
- 336 Miltefosine attenuates inflammation, reduces atherosclerosis, and alters gut microbiota in hyperlipidemic mice.
- 335 Association of Choline Intake with Blood Pressure and Effects of Its Microbiota-Dependent Metabolite Trimethylamine-N-Oxide on Hypertension. **2022**, 2022, 1-14
- 334 Gut Microbially Produced Indole-3-Propionic Acid Inhibits Atherosclerosis by Promoting Reverse Cholesterol Transport and Its Deficiency Is Causally Related to Atherosclerotic Cardiovascular Disease. **2022**, 131, 404-420 2
- 333 Archaea from the gut microbiota of humans: Could be linked to chronic diseases?. **2022**, 102629 1

332	The central and biodynamic role of gut microbiota in critically ill patients. 2022 , 26,	3
331	The relationship between the number of stenotic coronary arteries and the gut microbiome in coronary heart disease patients. 12,	0
330	Heterogeneity of non-alcoholic fatty liver disease (NAFLD): Implication for cardiovascular risk stratification. 2022 ,	2
329	TMAO as a potential biomarker and therapeutic target for chronic kidney disease: A review. 13,	2
328	The Role of a Gut Microbial-Derived Metabolite, Trimethylamine N-Oxide (TMAO), in Neurological Disorders.	0
327	Trimethylamine-N-oxide (TMAO) mediates the crosstalk between the gut microbiota and hepatic vascular niche to alleviate liver fibrosis in nonalcoholic steatohepatitis. 13,	0
326	Short-Chain Fatty Acid Receptors and Blood Pressure Regulation: Council on Hypertension Mid-Career Award for Research Excellence 2021.	0
325	A rapid and standardized workflow for functional assessment of bacterial biosensors in fecal samples. 10,	
324	Influence of Trimethylamine N-Oxide on Platelet Activation. 2022 , 14, 3261	0
323	Gut Microbiota Modulation as a Novel Therapeutic Strategy in Cardiometabolic Diseases. 2022 , 11, 2575	1
322	Analyzing the Complicated Connection Between Intestinal Microbiota and Cardiovascular Diseases. 2022 ,	0
321	Suppression of trimethylamine N-oxide with DMB mitigates vascular dysfunction, exercise intolerance, and frailty associated with a Western-style diet in mice.	1
320	High fat diets induce early changes in gut microbiota that may serve as markers of ulterior altered physiological and biochemical parameters related to metabolic syndrome. Effect of virgin olive oil in comparison to butter. 2022 , 17, e0271634	1
319	Trimethylamine, a gut bacteria metabolite and air pollutant, increases blood pressure and markers of kidney damage including proteinuria and KIM-1 in rats..	
318	The gut microbiota as a vehicle for the prevention and treatment of hepatocellular carcinoma. 2022 , 115225	0
317	Emerging trends and focus for the link between the gastrointestinal microbiome and kidney disease. 12,	
316	The effects of medicinal herbs on gut microbiota and metabolic factors in obesity models: A systematic review. 2022 , 16, 102586	
315	Dietary Meat, Trimethylamine N-Oxide-Related Metabolites, and Incident Cardiovascular Disease Among Older Adults: The Cardiovascular Health Study. 2022 , 42,	0

- 314 Role of gut microbe-derived metabolites in cardiometabolic diseases: Systems based approach. **2022**, 64, 101557 ○
- 313 Physiopathological mechanisms involved in the development of hypertension associated with gut dysbiosis and the effect of nutritional/pharmacological interventions. **2022**, 204, 115213 ○
- 312 Uremic Toxicity. **2023**, 16-44
- 311 Trimethylamine N-Oxide (TMAO) and Indoxyl Sulfate Concentrations in Patients with Alcohol Use Disorder. **2022**, 14, 3964 ○
- 310 NMR-Based Metabolomic Analysis for the Effects of Trimethylamine N-Oxide Treatment on C2C12 Myoblasts under Oxidative Stress. **2022**, 12, 1288 ○
- 309 Curcumin attenuates cadmium-induced atherosclerosis by regulating trimethylamine-N-oxide synthesis and macrophage polarization through remodeling the gut microbiota. **2022**, 244, 114057 1
- 308 Data-driven clustering approach to identify novel phenotypes using multiple biomarkers in acute ischaemic stroke: A retrospective, multicentre cohort study. **2022**, 53, 101639 1
- 307 Multiple mediation effects on association between prenatal triclosan exposure and birth outcomes. **2022**, 215, 114226 ○
- 306 Review on microbial metabolomics of probiotics and pathogens: Methodologies and applications. **2023**, 47, 91-107 ○
- 305 Gut Microbiota in Kawasaki Disease. **2022**, 181-195 ○
- 304 Beneficial role of gut microbiome in metabolic syndrome, obesity, and cardiovascular diseases. **2022**, 149-166 ○
- 303 Relationship between gut microbiota-derived substances and vascular function: focus on indoxyl sulfate and trimethylamine-*N*-oxide. **2022**, 157, 316-320 ○
- 302 Multi-omic analysis of host-microbial interactions central to the gut-brain axis. ○
- 301 Assessing the effects of alternative plant-based meats v. animal meats on biomarkers of inflammation: a secondary analysis of the SWAP-MEAT randomized crossover trial. **2022**, 11, ○
- 300 Research Progress of Probiotics in the Treatment of Nonalcoholic Fatty Liver Disease. **2022**, 12, 7249-7255 ○
- 299 Human microbiome and cardiovascular diseases. **2022**, ○
- 298 Gut dysbiosis and metabolic diseases. **2022**, ○
- 297 Increased plasma trimethylamine-N-oxide levels are associated with mild cognitive impairment in high cardiovascular risk elderly population. **2022**, 13, 10013-10022 ○

- 296 ??????????. **2022**, 31, 63-70 ○
- 295 Study on the Relationship between Intestinal Flora and Coronary Heart Disease. **2022**, 12, 8823-8830 ○
- 294 The role of multi-omics technologies and genetic analysis in the diagnosis and prediction of cardiovascular diseases. **2022**, 2, 6-16 ○
- 293 Atherosclerosis and trimethylamine-N-oxide [the gut microbiota potential. **2022**, 27, 5038 ○
- 292 Prognostic value of plasma phenylalanine and gut microbiota-derived metabolite phenylacetylglutamine in coronary in-stent restenosis. 9, ○
- 291 PRZEWLEKŃ CHOROBA NEREK ORAZ WYBRANE ASPEKTY MONITOROWANIA STANU BIORCŃ NERKI. **2020**, 18, 27-39 ○
- 290 Causal associations between gut microbiome and cardiovascular disease: A Mendelian randomization study. 9, ○
- 289 Fecal Metabolites as Biomarkers for Predicting Food Intake By Healthy Adults. ○
- 288 Trimethylamine-N-oxide is an important target for heart and brain diseases. **2022**, 2, 321-323 ○
- 287 Polyphenols Gut Heart: An Impactful Relationship to Improve Cardiovascular Diseases. **2022**, 11, 1700 ○
- 286 Longitudinal Associations of Plasma TMAO and Related Metabolites with Cognitive Impairment and Dementia in Older Adults: The Cardiovascular Health Study. **2022**, 1-14 ○
- 285 Trimethylamine N-Oxide Generated by the Gut Microbiota: Potential Atherosclerosis Treatment Strategies. **2022**, 28, ○
- 284 SGLT2 Inhibition, Choline Metabolites, and Cardiometabolic Diseases: A Mediation Mendelian Randomization Study. 1
- 283 Trimethylamine-N-Oxide Promotes Osteoclast Differentiation and Bone Loss via Activating ROS-Dependent NF- κ B Signaling Pathway. **2022**, 14, 3955 1
- 282 Probiotics Bring New Hope for Atherosclerosis Prevention and Treatment. **2022**, 2022, 1-13 ○
- 281 The neurovascular unit and systemic biology in stroke [implications for translation and treatment. **2022**, 18, 597-612 ○
- 280 Homeostasis in the Gut Microbiota in Chronic Kidney Disease. **2022**, 14, 648 1
- 279 Coronary heart disease and gut microbiota: A bibliometric and visual analysis from 2002 to 2022. 9, ○

278	Structural and functional dysbiosis of gut microbiota in Tibetan subjects with coronary heart disease. 2022 , 110483	0
277	Dietary choline activates brown fat to reduce adiposity and cholesterol in APOE*3-Leiden.CETP mice.	0
276	Trimethylamine N-Oxide Reduces Neurite Density and Plaque Intensity in a Murine Model of Alzheimer's Disease. 2022 , 1-13	0
275	One-year longitudinal association between changes in dietary choline or betaine intake association with cardiometabolic variables in the PREDIMED-Plus trial.	0
274	Related factors based on non-targeted metabolomics methods in minor ischaemic stroke. 13,	0
273	Initiation of 3,3-dimethyl-1-butanol at midlife prevents endothelial dysfunction and attenuates in vivo aortic stiffening with ageing in mice.	0
272	Study on the mechanism of American ginseng extract for treating type 2 diabetes mellitus based on metabolomics. 13,	0
271	Morphological and molecular evolution of hadal amphipod's eggs provides insights into embryogenesis under high hydrostatic pressure. 10,	0
270	p21-activated kinase 1 (PAK1) as a therapeutic target for cardiotoxicity.	0
269	Long term weight cycling affects fecal microbiota of mice. 2200439	0
268	The Genetic Architecture of the Etiology of Lower Extremity Peripheral Artery Disease: Current Knowledge and Future Challenges in the Era of Genomic Medicine. 2022 , 23, 10481	0
267	Melatonin relieves hepatic lipid dysmetabolism caused by aging via modifying the secondary bile acid pattern of gut microbes. 2022 , 79,	0
266	Multi-nutrient interventions and cognitive ageing: are we barking up the right tree?. 1-33	0
265	Gut bacterial nutrient preferences quantified in vivo. 2022 , 185, 3441-3456.e19	2
264	Advancing human gut microbiota research by considering gut transit time. gutjnl-2022-328166	3
263	Metabolomic Profiling in Atherosclerotic Lesions and the Effect of Heavy Metals on the Course of Disease: A Literature Review. 2022 , 35-42	0
262	Targeting innate immunity-driven inflammation in CKD and cardiovascular disease.	2
261	Microbial Tryptophan Metabolism Tunes Host Immunity, Metabolism, and Extraintestinal Disorders. 2022 , 12, 834	0

260	Association of Systemic Trimethyllysine with Heart Failure with Preserved Ejection Fraction and Cardiovascular Events.	0
259	Nephrolithiasis: A Red Flag for Cardiovascular Risk. 2022 , 11, 5512	1
258	Gut microbiota is a potential goalkeeper of dyslipidemia. 13,	0
257	Blood-Based Fingerprint of Cardiorespiratory Fitness and Long-Term Health Outcomes in Young Adulthood. 2022 , 11,	0
256	Gut microbiome and microbial metabolites in NAFLD and after bariatric surgery: Correlation and causality. 13,	0
255	Two-component carnitine monooxygenase from <i>Escherichia coli</i> : functional characterization, inhibition and mutagenesis of the molecular interface. 2022 , 42,	0
254	The microbiome-derived metabolite TMAO drives immune activation and boosts responses to immune checkpoint blockade in pancreatic cancer. 2022 , 7,	6
253	The role of the gut microbiome in eye diseases. 2022 , 101117	1
252	A construction and comprehensive analysis of the immune-related core ceRNA network and infiltrating immune cells in peripheral arterial occlusive disease. 13,	0
251	Artificial intelligence-driven prediction of multiple drug interactions.	0
250	Development of a Miniature Mass Spectrometry System for Point-of-Care Analysis of Lipid Isomers Based on Ozone-Induced Dissociation.	0
249	TMAO and its precursors in relation to host genetics, gut microbial composition, diet, and clinical outcomes: Meta-analysis of 5 prospective population-based cohorts.	0
248	The Gut Microbiome and Obstructive Sleep Apnea Syndrome in Children. 2022 ,	0
247	Cardiovascular effects of TMAO and other toxic metabolites of the intestinal microbiome.	0
246	Immune and inflammatory mechanisms of abdominal aortic aneurysm. 13,	0
245	Residual Risk of Trimethylamine-N-Oxide and Choline for Stroke Recurrence in Patients With Intensive Secondary Therapy. 2022 , 11,	0
244	The exciting and magical journey of components from Compound formulae to where they fight. Publish Ahead of Print,	0
243	Microbiome epidemiology and association studies in human health.	0

242	Cerebrovascular Disease, Cardiovascular Disease, and Chronic Kidney Disease: Interplays and Influences.	0
241	Role of microbiota and microbiota-derived short-chain fatty acids in PDAC.	0
240	Associations of plasma TMAO and its precursors with stroke risk in the general population: A nested case-control study.	0
239	Analysis of two intestinal bacterial metabolites (trimethylamine N-oxide and phenylacetylglutamine) in human serum samples of patients with T2DM and AMI using a liquid chromatography tandem mass spectrometry method. 2022 , 536, 162-168	0
238	Microbiome and metabolism: Advancements in microbiome engineering. 2022 , 27, 100404	0
237	Characterization and difference of lipids and metabolites from Jianhe White Xiang and Large White pork by high-performance liquid chromatography tandem mass spectrometry. 2022 , 162, 111946	0
236	5) Gut Microbiota in Cardiovascular Diseases. 2021 , 110, 1848-1854	0
235	Trimethylamine N-Oxide (TMAO) as a Biomarker. 2022 , 27-45	0
234	Microbiome Derived Metabolites in CKD and ESRD. 2022 , 45-60	0
233	Study on the role of naringin in attenuating Trimethylamine-N-Oxide-Induced human umbilical vein endothelial cell inflammation, oxidative stress, and endothelial dysfunction. 2022 , 65, 217	0
232	NMR Metabolomics for Marker Discovery of Metabolic Syndrome. 2022 , 651-678	0
231	Implications of trimethylamine N-oxide (TMAO) and Betaine in Human Health: Beyond Being Osmoprotective Compounds. 9,	2
230	Impact of Phenol-Enriched Olive Oils on Serum Metabonome and Its Relationship with Cardiometabolic Parameters: A Randomized, Double-Blind, Cross-Over, Controlled Trial. 2022 , 11, 1964	1
229	Gut Microbial Metabolite Trimethylamine-N-Oxide and its Role in Cardiovascular Diseases.	0
228	Helicobacter Pylori Infection Induces Intestinal Dysbiosis That Could Be Related to the Onset of Atherosclerosis. 2022 , 2022, 1-16	0
227	Synergic interactions between berry polyphenols and gut microbiota in cardiovascular diseases. 2022 , 1-19	1
226	Caloric Restriction, Friend or Foe: Effects on Metabolic Status in Association with the Intestinal Microbiome and Metabolome. 2022 , 70, 14061-14072	1
225	Response of circulating metabolites to an oral glucose challenge and risk of cardiovascular disease and mortality in the community. 2022 , 21,	0

224	The metabolomics of human aging: Advances, challenges, and opportunities. 2022 , 8,	1
223	Disruption of the gut microbiota confers cisplatin resistance in epithelial ovarian cancer.	2
222	The stereoselective metabolic disruption of cypermethrin by a sub-acute study based on metabolomics.	0
221	Emerging computational paradigms to address the complex role of gut microbial metabolism in cardiovascular diseases. 9,	1
220	Trimethylamine N-oxide: role in cell senescence and age-related diseases.	1
219	Correlation between serum trimethylamine-N-oxide concentration and protein energy wasting in patients on maintenance hemodialysis. 2022 , 44, 1669-1676	1
218	The Role and Mechanism of Gut Microbiota in Pulmonary Arterial Hypertension. 2022 , 14, 4278	1
217	Trimethylamine, a gut bacteria metabolite and air pollutant, increases blood pressure and markers of kidney damage including proteinuria and KIM-1 in rats. 2022 , 20,	1
216	Heart failure and cancer: From active exposure to passive adaption. 9,	0
215	Nondestructive and multiplex differentiation of pathogenic microorganisms from spoilage microflora on seafood using paper chromogenic array and neural network. 2022 , 112052	0
214	The potential of tailoring the gut microbiome to prevent and treat cardiometabolic disease.	1
213	Plasma Gut Microbe-Derived Metabolites Associated with Peripheral Artery Disease and Major Adverse Cardiac Events. 2022 , 10, 2065	1
212	Dietary Interventions of Salmon and Silver Carp Phospholipids on Mice with Metabolic Syndrome Based on Lipidomics. 2022 , 11, 3199	0
211	The role of the gut microbiota in health and cardiovascular diseases. 2022 , 3,	3
210	Gut microbiota may mediate the impact of chronic apical periodontitis on atherosclerosis in apolipoprotein E-deficient mice.	0
209	Gut microbiota and myocardial fibrosis. 2022 , 175355	0
208	Choline and butyrate beneficially modulate the gut microbiome without affecting atherosclerosis in APOE*3-Leiden.CETP mice. 2022 ,	0
207	Exploratory studies of oral and fecal microbiome in healthy human aging. 3,	0

206	Crosstalk between the Gut and Brain in Ischemic Stroke: Mechanistic Insights and Therapeutic Options. 2022 , 2022, 1-17	0
205	A gut bacterium tackles atherosclerosis. 2022 , 4, 1221-1222	0
204	Gut Microbiota Influence the Development of Abdominal Aortic Aneurysm by Suppressing Macrophage Accumulation in Mice.	0
203	Plasma metabolomics provides new insights into the relationship between metabolites and outcomes and left ventricular remodeling of coronary artery disease. 2022 , 12,	0
202	Gut Microbiota in Ischemic Stroke: Role of Gut Bacteria-Derived Metabolites.	0
201	Gut microbes in cerebrovascular diseases: Gut flora imbalance, potential impact mechanisms and promising treatment strategies. 13,	0
200	Diversified Shifts in the Cross Talk between Members of the Gut Microbiota and Development of Coronary Artery Diseases.	0
199	In vivo study of subacute oral toxicity of kelulut honey. 2022 , 29, 1188-1204	1
198	Dietary choline, via gut microbe- generated trimethylamine-N- oxide, aggravates chronic kidney disease-induced cardiac dysfunction by inhibiting hypoxia-induced factor 1 β 13,	0
197	Multi-omics analysis reveals neuroinflammation, activated glial signaling, and dysregulated synaptic signaling and metabolism in the hippocampus of aged mice. 14,	0
196	The Effects of Oral Probiotics Supplementation in Overweight or Obese Postmenopausal Women: A Systematic Review and Meta-Analysis of Randomized Controlled Trials.	0
195	Gut-liver axis: Pathophysiological concepts and clinical implications. 2022 , 34, 1700-1718	4
194	Association of gut microbiota composition and their metabolites with subclinical atheromatosis: A systematic review. 2022 , 23, 100219	0
193	Uncovering the characteristics of the gut microbiota in patients with acute ischemic stroke and phlegm-heat syndrome. 2022 , 17, e0276598	0
192	Gut-Immune-Kidney Axis: Influence of Dietary Protein in Salt-Sensitive Hypertension. 2022 , 79, 2397-2408	1
191	Microbiome and Human Health: Current Understanding, Engineering, and Enabling Technologies.	0
190	Host-microbiome interactions: Gut-Liver axis and its connection with other organs. 2022 , 8,	1
189	Effects of heat-treated starch and protein from foxtail millet (<i>Setaria italica</i>) on type 2 diabetic mice. 2023 , 404, 134735	0

188	Farmen i tarmen DEL 1 AV 2. 2017 , 15, 14-22	0
187	Precision Nutrition from the View of the Gut Microbiome. 2022 , 67-96	0
186	Drugging the microbiome: targeting small microbiome molecules. 2023 , 71, 102234	0
185	Are neuromodulation interventions associated with changes in the gut microbiota? A systematic review. 2023 , 223, 109318	1
184	The microbiota and the gut-liver axis in primary sclerosing cholangitis.	0
183	Gut-Liver Axis and Non-Alcoholic Fatty Liver Disease: A Vicious Circle of Dysfunctions Orchestrated by the Gut Microbiome. 2022 , 11, 1622	0
182	Intestinal Flora Derived Metabolites Affect the Occurrence and Development of Cardiovascular Disease. Volume 15, 2591-2603	0
181	Gut microbiome metabolites as key actors in atherosclerosis co-depression disease. 13,	0
180	The Relationship between Atherosclerosis and Gut Microbiome in Patients with Obstructive Sleep Apnoea. 2022 , 12, 11484	0
179	Blood metabolomes as non-invasive biomarkers and targets of metabolic interventions for doxorubicin and trastuzumab-induced cardiotoxicity.	0
178	Clinical features and metabolic reprogramming of atherosclerotic lesions in patients with chronic thromboembolic pulmonary hypertension. 9,	0
177	How to employ metabolomic analysis to research on functions of prebiotics and probiotics in poultry gut health?. 13,	0
176	FMO3 deficiency of duck leads to decreased lipid deposition and increased antibacterial activity. 2022 , 13,	0
175	The Microbial and Metabolic Signatures of Patients with Stable Coronary Artery Disease.	1
174	Construction of low intestinal bacteria model and its effect on laying performance and immune function of laying hens. 2022 , 102327	0
173	Update on gut microbiota in cardiovascular diseases. 12,	2
172	Evidence of a causal and modifiable relationship between kidney function and circulating trimethylamineN-oxide with implications for heart and kidney disorders.	1
171	Aorta- and liver-generated TMAO enhances trained immunity for increased inflammation via ER stress-mitochondrial ROS/glycolysis pathways.	0

170	The oral microbiota and cardiometabolic health: A comprehensive review and emerging insights. 13,	0
169	Higher Circulating Trimethylamine N-Oxide Aggravates Cognitive Impairment Probably via Downregulating Hippocampal SIRT1 in Vascular Dementia Rats. 2022 , 11, 3650	0
168	Inadequate Choline Intake in Pregnant Women in Germany. 2022 , 14, 4862	0
167	Gut microbiota-derived metabolites and their importance in neurological disorders.	0
166	Spatial metabolomics identifies lipid profiles of human carotid atherosclerosis. 2023 , 364, 20-28	0
165	The gut microbiota-artery axis: A bridge between dietary lipids and atherosclerosis?. 2023 , 89, 101209	2
164	Synbiotics of Bifidobacterium breve MCC1274 and lactulose enhances production of tryptophan metabolites in fermented human fecal communities. 2023 , 163, 112308	0
163	Understanding interactions among diet, host and gut microbiota for personalized nutrition. 2023 , 312, 121265	1
162	Quercetin inhibits hepatotoxic effects by reducing trimethylamine-N-oxide formation in C57BL/6J mice fed with a high l-carnitine diet.	0
161	Gut microbiome and metabolites, the future direction of diagnosis and treatment of atherosclerosis?. 2023 , 187, 106586	1
160	Gut microbiota-derived metabolite trimethylamine N-oxide and biomarkers of inflammation are linked to endothelial and coronary microvascular function in patients with inflammatory bowel disease. 2023 , 146, 104458	1
159	Microbioma y enfermedades crónicas. 2022 , 67, 284-292	0
158	Identification of key bacterial taxa and metabolic pathways affecting gut organic acid profiles in early life. 2021 , 32, 107-118	0
157	NLRP3 and Gut Microbiota Homeostasis: Progress in Research. 2022 , 11, 3758	0
156	The Association of Dietary Cholesterol from Egg Consumption on Cardiovascular Diseases Risk Varies from Person to Person. 2022 , 70, 14977-14988	0
155	Gut Microbiota and Cardiovascular System: An Intricate Balance of Health and the Diseased State. 2022 , 12, 1986	2
154	Interleukin-8 (IL-8) as a Potential Mediator of an Association between Trimethylamine N-Oxide (TMAO) and Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9) among African Americans at Risk of Cardiovascular Disease. 2022 , 12, 1196	1
153	Bioactive metabolites: The double-edged sword in your food. 2022 , 185, 4469-4471	0

- 152 Circulating microbiota and metabolites: Insights into cardiovascular diseases. **2022**, 36, 1
- 151 Usnea improves high-fat diet- and vitamin D3-induced atherosclerosis in rats by remodeling intestinal flora homeostasis. 13, 0
- 150 The stereoselective metabolic disruption of cypermethrin on rats by a sub-acute study based on metabolomics. 0
- 149 Machine learning for data integration in human gut microbiome. **2022**, 21, 1
- 148 Fecal microbiota transplantation restores normal fecal composition and delays malignant development of mild chronic kidney disease in rats. 13, 1
- 147 LiverGutAxis: A target of traditional Chinese medicine for the treatment of non-alcoholic fatty liver disease. 13, 1
- 146 Dysbiosis of Gut Microbiota Contributes to Uremic Cardiomyopathy via Induction of IFN γ -Producing CD4 + T Cells Expansion. 0
- 145 Gut bacteria impact host uric acid burden and its association with atherosclerosis. 0
- 144 The central role of the gut in intensive care. **2022**, 26, 0
- 143 The Prevalence of Small Intestinal Bacterial Overgrowth in Patients with Non-Alcoholic Liver Diseases: NAFLD, NASH, Fibrosis, CirrhosisA Systematic Review, Meta-Analysis and Meta-Regression. **2022**, 14, 5261 1
- 142 Association of circulating Trimethylamine-N oxide with malnutrition and the risk of coronary artery disease in patients with maintenance hemodialysis. **2022**, 0
- 141 A water-soluble tomato extract rich in secondary plant metabolites lowers trimethylamine-n-oxide and modulates gut microbiota: A randomized, double-blind, placebo-controlled cross-over study in overweight and obese adults. **2022**, 0
- 140 Choline supplementation for preterm infants: metabolism of four Deuterium-labeled choline compounds. 0
- 139 Oral and Gut Microbiome Alterations in Heart Failure: Epidemiology, Pathogenesis and Response to Advanced Heart Failure Therapies.. **2022**, 0
- 138 KLF4-PFKFB3-driven glycolysis is essential for phenotypic switching of vascular smooth muscle cells. **2022**, 5, 1
- 137 Nutritional implications in the mechanistic link between the intestinal microbiome, renin-angiotensin system, and the development of obesity and metabolic syndrome. **2022**, 109252 0
- 136 Plasma Cholesterol- and Body Fat-Lowering Effects of Chicken Protein Hydrolysate and Oil in High-Fat Fed Male Wistar Rats. **2022**, 14, 5364 0
- 135 Insulin resistance in Alzheimer's Disease: the genetics and metabolomics links. **2022**, 1

- 134 Epigenetics and Gut Microbiota Crosstalk: A potential Factor in Pathogenesis of Cardiovascular Disorders. **2022**, 9, 798 ○
- 133 Higher circulating Trimethylamine N-oxide levels are associated with worse severity and prognosis in pulmonary hypertension: a cohort study. **2022**, 23, ○
- 132 Carnitine supplements for people with chronic kidney disease requiring dialysis. **2022**, 2022, ○
- 131 Ameliorating Role of Hydrogen-Rich Water Against NSAID-Induced Enteropathy via Reduction of ROS and Production of Short-Chain Fatty Acids. ○
- 130 Phenylacetylglutamine From the Gut Microbiota: A Future Therapeutic Target in Heart Failure?. ○
- 129 Association of Stool Frequency and Consistency with the Risk of All-Cause and Cause-Specific Mortality among U.S. Adults: Results from NHANES 2005-2010. **2023**, 11, 29 ○
- 128 Immune mechanism of gut microbiota and its metabolites in the occurrence and development of cardiovascular diseases. 13, ○
- 127 The Role of Gut Bacteriome in Asthma, Chronic Obstructive Pulmonary Disease and Obstructive Sleep Apnoea. **2022**, 10, 2457 ○
- 126 Treatment of Dyslipidemia through Targeted Therapy of Gut Microbiota. **2023**, 15, 228 ○
- 125 Gut Microbiota Peculiarities in Aged HIV-Infected Individuals: Molecular Understanding and Therapeutic Perspectives. **2023**, 415-439 ○
- 124 Effects of prebiotics, probiotics and synbiotics on serum creatinine in non-dialysis patients: a meta-analysis of randomized controlled trials. **2023**, 45, ○
- 123 Trimethylamine-N-oxide is associated with cardiovascular mortality and vascular brain lesions in patients with atrial fibrillation. heartjnl-2022-321300 ○
- 122 Twin Research in China and Worldwide. **2022**, 325-336 ○
- 121 Ageing of the Gut Microbiome and Its Potential Contribution Towards Immunesenescence and Inflammaging. **2023**, 41-63 ○
- 120 Age and APOE affect L-carnitine system metabolites in the brain in the APOE-TR model. 14, ○
- 119 Choline and trimethylamine N-oxide impair metabolic activation of and platelet response to clopidogrel through activation of the NOX/ROS/Nrf2/CES1 pathway. **2023**, 21, 117-132 ○
- 118 Mitochondria as novel mediators linking gut microbiota to atherosclerosis that is ameliorated by herbal medicine: A review. 14, ○
- 117 Fatty acid overproduction by gut commensal microbiota exacerbates obesity. **2023**, ○

- 116 Role of Renin Angiotensin System in the Pathophysiology of Coronary Heart Disease: Advancements in Diagnosis, Therapy and Preventive Strategies. **2023**, 211-235 ○
- 115 Ampicillin exacerbates acetaminophen-induced acute liver injury by inducing intestinal microbiota imbalance and butyrate reduction. ○
- 114 The gut microbiome and hypertension. 1
- 113 Dietary Methionine Restriction Alleviates Choline-Induced Tri-Methylamine-N-Oxide (TMAO) Elevation by Manipulating Gut Microbiota in Mice. **2023**, 15, 206 ○
- 112 Dietary Methionine Restriction Promotes Fat Browning and Attenuates Hepatic Lipid Accumulation in High-Choline-Fed Mice Associated with the Improvement of Thyroid Function. ○
- 111 Bacterial Translocation to the Mesentery. **2023**, 93-109 ○
- 110 Does the Composition of Gut Microbiota Affect Hypertension? Molecular Mechanisms Involved in Increasing Blood Pressure. **2023**, 24, 1377 ○
- 109 Association between Small Intestinal Bacterial Overgrowth and Subclinical Atheromatous Plaques. **2023**, 12, 314 ○
- 108 The Effects of Oral Probiotic Supplementation in Postmenopausal Women with Overweight and Obesity: A Systematic Review and Meta-analysis of Randomized Controlled Trials. ○
- 107 The Relationship Between Diet, Gut Microbiota, and Serum Metabolome of South Asian Infants at 1 Year. **2022**, ○
- 106 Show Me What You Have Inside—The Complex Interplay between SIBO and Multiple Medical Conditions—A Systematic Review. **2023**, 15, 90 1
- 105 Alterations of oral microbiota and impact on the gut microbiome in type 1 diabetes mellitus revealed by integrated multi-omic analyses. **2022**, 10, 1
- 104 Prognostic value of gut microbiota-derived metabolites in patients with ST-segment elevation myocardial infarction. **2022**, ○
- 103 Gut check: assessing the role of the gut microbiota in the adverse cardiovascular effects of obstructive sleep apnoea. **2023**, 61, 2201974 ○
- 102 The therapeutic role of microbial metabolites in human health and diseases. **2023**, 1-38 ○
- 101 Microbiota Effect on Trimethylamine N-Oxide Production: From Cancer to Fitness—A Practical Preventing Recommendation and Therapies. **2023**, 15, 563 ○
- 100 The Gut Microbiome, Microbial Metabolites, and Cardiovascular Disease in People Living with HIV. ○
- 99 Tongue-coating microbiome reflects cardiovascular health and determines outcome in blood pressure intervention. **2023**, ○

98	Symbiotic microbes from the human gut. 2023 , 533-549	0
97	Potential Role of Quercetin Glycosides as Anti-Atherosclerotic Food-Derived Factors for Human Health. 2023 , 12, 258	0
96	Biosynthetic gene clusters of symbiotic gut microbiome in succession of human health. 2023 , 847-859	0
95	Optimization of Mobile Phase Modifiers for Fast LC-MS-Based Untargeted Metabolomics and Lipidomics. 2023 , 24, 1987	1
94	Crosstalk between Gut Microbiota and Host Immunity: Impact on Inflammation and Immunotherapy. 2023 , 11, 294	1
93	Gut Microbiota-Derived TMAO: A Causal Factor Promoting Atherosclerotic Cardiovascular Disease?. 2023 , 24, 1940	0
92	Mechanistic insight: Linking cardiovascular complications of inflammatory bowel disease. 2023 ,	0
91	The Role of the Gut Microbiome and Trimethylamine Oxide in Atherosclerosis and Age-Related Disease. 2023 , 24, 2399	0
90	A novel TNFRSF1A mutation associated with TNF-receptor-associated periodic syndrome and its metabolic signature.	0
89	Metabolic Pathway of Monounsaturated Lipids Revealed by In-Depth Structural Lipidomics by Mass Spectrometry. 2023 , 6,	0
88	Gut Microbial Metabolites on Host Immune Responses in Health and Disease. 2023 , 23,	1
87	Gut microbiota: a non-target victim of pesticide-induced toxicity. 2023 , 15,	0
86	Gold-nanosphere mitigates osteoporosis through regulating TMAO metabolism in a gut microbiota-dependent manner. 2023 , 21,	0
85	Amine recognizing domain in diverse receptors from bacteria and archaea evolved from the universal amino acid sensor.	0
84	Gut Microbiota-Derived Trimethylamine N-Oxide Contributes to Abdominal Aortic Aneurysm Through Inflammatory and Apoptotic Mechanisms. 2023 , 147, 1079-1096	0
83	Dysbiosis: An Etiological Factor for Cardiovascular Diseases and the Therapeutic Benefits of Gut Microflora. 2023 , 2023, 1-8	0
82	Metagenomics reveals structural and functional gut mycobiota dysbiosis in Tibetan subjects with coronary heart disease. 2023 , 36, 201158	0
81	Microbiome in Behcet's syndrome. 2023 , 250, 109304	0

- 80 Gut microbial and metabolic characterization of Atlantic salmon (*Salmon salar*) challenged with *Aeromonas salmonicida*. **2023**, 570, 739420 ○
- 79 Immune communication between the intestinal microbiota and the cardiovascular system. **2023**, 254, 13-20 ○
- 78 Trimethylamine N-Oxide Response to a Mixed Macronutrient Tolerance Test in a Cohort of Healthy United States Adults. **2023**, 24, 2074 ○
- 77 Gut Microbiota in Colorectal Cancer: Biological Role and Therapeutic Opportunities. **2023**, 15, 866 ○
- 76 Choline supplementation regulates gut microbiome diversity, gut epithelial activity, and the cytokine gene expression in gilts. 10, ○
- 75 DNA Damage and the Gut Microbiome: From Mechanisms to Disease Outcomes. **2023**, 3, 13-32 ○
- 74 Dietary choline increases brown adipose tissue activation markers and improves cholesterol metabolism in female APOE*3-Leiden.CETP mice. ○
- 73 Neither Trimethylamine-N-Oxide nor Trimethyllysine Is Associated with Atherosclerosis: A Cross-Sectional Study in Older Japanese Adults. **2023**, 15, 759 ○
- 72 The Interaction of Gut Microbiota and Heart Failure with Preserved Ejection Fraction: From Mechanism to Potential Therapies. **2023**, 11, 442 1
- 71 Subarachnoid hemorrhage: New insights on pathogenesis. 2, ○
- 70 Plasma Trimethylamine N-Oxide Levels Are Associated with Poor Kidney Function in People with Type 2 Diabetes. **2023**, 15, 812 ○
- 69 The gut microbial metabolite trimethylamine N-oxide and cardiovascular diseases. 14, 1
- 68 The short-chain fatty acid butyrate exerts a specific effect on VE-cadherin phosphorylation and alters the integrity of aortic endothelial cells. 11, ○
- 67 Selenium supplementation provides potent neuroprotection following cerebral ischemia in mice. 0271678X2311569
- 66 Zuogui Jiangtang Shuxin formula Ameliorates diabetic cardiomyopathy mice via modulating gut-heart axis. 14, ○
- 65 Genetic mapping of microbial and host traits reveals production of immunomodulatory lipids by *Akkermansia muciniphila* in the murine gut. **2023**, 8, 424-440 ○
- 64 Gut Microbiota and Coronary Artery Disease: Current Therapeutic Perspectives. **2023**, 13, 256 ○
- 63 Atherosclerotic patients with diabetes mellitus may break through the threshold of healthy TMAO levels formed by long-term statins therapy. **2023**, 9, e13657 ○

- 62 Effects of black raspberry extract on gut microbiota, microbial metabolites, and expressions of the genes involved in cholesterol and bile acid metabolisms in rats fed excessive choline with a high-fat diet. **2023**, 32, 577-587
- 61 Re-defining the Gut Heart Axis: A Systematic Review of the Literature on the Role of Gut Microbial Dysbiosis in Patients With Heart Failure. **2023**,
- 60 Association between plasma trimethylamine-N-oxide and cognitive impairment in patients with transient ischemic attack. 1-12
- 59 Akkermansia muciniphila as a Next-Generation Probiotic in Modulating Human Metabolic Homeostasis and Disease Progression: A Role Mediated by Gut-Liver-Brain Axes?. **2023**, 24, 3900
- 58 The role of gut-dependent molecule trimethylamine N-oxide as a novel target for the treatment of chronic kidney disease.
- 57 Phenylacetyl glutamine: a novel biomarker for stroke recurrence warning. **2023**, 23,
- 56 Effects of herbal cake-partitioned moxibustion on plasma trimethylamine, trimethylamine-N-oxide, and flavin-containing monooxygenase 3 in atherosclerotic rabbits. **2023**, 21, 10-17
- 55 Relation between laxative use and risk of major bleeding in patients with atrial fibrillation and heart failure.
- 54 Effects of SCFAs and TMAO on non-alcoholic fatty liver disease indicating the therapeutic benefits of plant-based diet, and supplemental prebiotics, probiotics and synbiotics. **2023**, 66,
- 53 A Metabolomics Study of Thrombosis after Cardiac Surgery in Children with Congenital Heart Disease.
- 52 Untargeted Lipidomics of Erythrocytes under Simulated Microgravity Conditions. **2023**, 24, 4379
- 51 Nonalcoholic Fatty Liver Disease and Cardiovascular Disease: Causation or Association. Publish Ahead of Print,
- 50 What clinical metabolomics will bring to the medicine of tomorrow. 3,
- 49 Different choline supplement metabolism in adults using deuterium labelling.
- 48 Microbiota-related metabolites fueling the understanding of ischemic heart disease.
- 47 The artificial sweetener erythritol and cardiovascular event risk. **2023**, 29, 710-718
- 46 The Role of Phytochemicals and Gut Microbiome in Atherosclerosis in Preclinical Mouse Models. **2023**, 15, 1212
- 45 Intestinal flora: A new target for traditional Chinese medicine to improve lipid metabolism disorders. 14,

- 44 The Role of Microbiota in Liver Transplantation and Liver Transplantation-Related Biliary Complications. **2023**, 24, 4841 ○
- 43 Choline supplements: An update. 14, ○
- 42 Recent advances in the gut microbiome and microbial metabolites alterations of coronary artery disease. **2023**, 68, 549-552 ○
- 41 Differences in uterine and serum metabolome associated with metritis in dairy cows. **2023**, ○
- 40 A simple tandem mass spectrometry method for structural identification of pentose oligosaccharides. **2023**, 148, 1712-1731 ○
- 39 Trimethylamine N-oxide is associated with long-term mortality risk: the multi-ethnic study of atherosclerosis. ○
- 38 Gut microbiota-associated metabolites and risk of ischemic stroke in REGARDS. 0271678X2311626 ○
- 37 The Role of the Oral Microbiome in the Development of Diseases. **2023**, 24, 5231 ○
- 36 Gut microbiota and stroke: New avenues to improve prevention and outcome. ○
- 35 Secondary Cardiovascular Prevention after Acute Coronary Syndrome: Emerging Risk Factors and Novel Therapeutic Targets. **2023**, 12, 2161 ○
- 34 They eat what we eat, they digest what we ingest. ○
- 33 The animal's microbiome and cancer: A translational perspective. ○
- 32 Role of the Gut Microbiome in the Development of Atherosclerotic Cardiovascular Disease. **2023**, 24, 5420 ○
- 31 Porphyromonas gingivalis regulates atherosclerosis through an immune pathway. 14, ○
- 30 Insect lipid in fish nutrition: Recent knowledge and future application in aquaculture. ○
- 29 Comparative Gut Microbiome Differences between High and Low Aortic Arch Calcification Score in Patients with Chronic Diseases. **2023**, 24, 5673 ○
- 28 Microbiome-liver crosstalk: A multihit therapeutic target for liver disease. 29, 1651-1668 ○
- 27 Modulation of Endothelial Function by TMAO, a Gut Microbiota-Derived Metabolite. **2023**, 24, 5806 ○

- 26 Gut microbiota and host cytochrome P450 characteristics in the pseudo germ-free model: co-contributors to a diverse metabolic landscape. **2023**, 15, ○
- 25 Impavido attenuates inflammation, reduces atherosclerosis, and alters gut microbiota in hyperlipidemic mice. **2023**, 26, 106453 ○
- 24 Microbial metabolites as modulators of the infant gut microbiome and host-microbial interactions in early life. **2023**, 15, ○
- 23 Lipidome, central carbon metabolites, and sleep rhythm in coronary heart disease with nontraditional risks: An exploratory pilot study. **2023**, 9, e14827 ○
- 22 An untargeted metabolomics investigation in liver of flaviviruses-infected mice. **2023**, 582, 12-22 ○
- 21 TRIMETHYLAMINE OXIDE [FACTOR IN THE DEVELOPMENT OF ATHEROSCLEROSIS AND A POTENTIAL TARGET FOR DIETARY AND PHARMACOLOGICAL INTERVENTIONS. **2023**, 51, 54-58 ○
- 20 Gut-Derived Metabolite, Trimethylamine-N-oxide (TMAO) in Cardio-Metabolic Diseases: Detection, Mechanism, and Potential Therapeutics. **2023**, 16, 504 ○
- 19 Unprocessed Red Meat and Processed Meat Consumption, Plasma Metabolome, and Risk of Ischemic Heart Disease: A Prospective Cohort Study of UK Biobank. **2023**, 12, ○
- 18 Identification of potential serum biomarkers for congenital heart disease children with pulmonary arterial hypertension by metabolomics. **2023**, 23, ○
- 17 Crosstalk Between Cholesterol, ABC Transporters, and PIP2 in Inflammation and Atherosclerosis. **2023**, 353-377 ○
- 16 Gut Failure: A Review of the Pathophysiology and Therapeutic Potentials in the Gut-Heart Axis. **2023**, 12, 2567 ○
- 15 Choline and trimethylamine N-oxide supplementation in normal chow diet and western diet promotes the development of atherosclerosis in Apoe Δ/Δ mice through different mechanisms. **2023**, 74, 234-246 ○
- 14 Nutraceutical and therapeutic importance of clots and their metabolites. **2023**, 241-268 ○
- 13 Gut microbiota dependant trimethylamine N-oxide and hypertension. 14, ○
- 12 Gut microbiota in Chinese and Japanese patients with cardiovascular diseases: a systematic review and meta-analysis. **2023**, 43, 105-114 ○
- 11 Association of the gut microbiota with coronary artery disease and myocardial infarction: A Mendelian randomization study. 14, ○
- 10 Role of the Microbiome in Gut-Heart-Kidney Cross Talk. **2023**, 132, 1064-1083 ○
- 9 Trimethylamine N-Oxide generation process was influenced by the proportion and source of macronutrients in the diet. **2023**, 1-15 ○

- 8 Detection of Cardiovascular Disease Using Gut Microbiota Data.
- 7 Conjugated bile acids are nutritionally re-programmable antihypertensive metabolites. Publish Ahead of Print,
- 6 Targeting the human gut microbiome with small-molecule inhibitors.
- 5 Gut Microbiota and Atrial Fibrillation: Pathogenesis, Mechanisms and Therapies. 12,
- 4 Pharmacological activation of constitutive androstane receptor induces female-specific modulation of hepatic metabolism.
- 3 Nutritional and Lifestyle Therapy for NAFLD in People with HIV. **2023**, 15, 1990
- 2 Microbially Produced Imidazole Propionate Is Associated With Heart Failure and Mortality. **2023**,
- 1 Gut microbiome and atrial fibrillation—Results from a large population-based study. **2023**, 91, 104583