Uric acid: A new look at an old risk marker for cardiovascular disease, metabolic syndrome, and type 2 diabetes mellitus: The urate redox shuttle

DOI: 10.1186/1743-7075-1-10
Nutrition and Metabolism, 2004, 1, 10.

#	Paper	IF	Citations
267	Theoretical calculations on the tautomerism of uric acid in gas phase and aqueous solution. **2005**, 755, 209-214		16
266	Isolated low high density lipoprotein-cholesterol (HDL-C): implications of global risk reduction. Case report and systematic scientific review. **2005**, 4, 1		40
265	Vascular ossification-calcification in metabolic syndrome, type 2 diabetes mellitus, chronic kidney disease, and calciphylaxis-calcific uremic arteriolopathy: the emerging role of sodium thiosulfate. **2005**, 4, 4		136
264	The frequency of combined target organ damage and the beneficial effect of ambulatory blood pressure monitoring in never treated mild-to-moderate hypertensive patients. **2005**, 46, 1073-82		17
263	Measures of oxidized low-density lipoprotein and oxidative stress are not related and not elevated in otherwise healthy men with the metabolic syndrome. **2005**, 25, 2580-6		80
262	A pilot study of L-arginine supplementation on functional capacity in peripheral arterial disease. **2005**, 10, 265-74		36
261	Renal redox stress and remodeling in metabolic syndrome, type 2 diabetes mellitus, and diabetic nephropathy: paying homage to the podocyte. **2005**, 25, 553-69		68
260	Plasma antioxidant capacity among middle-aged men: the contribution of uric acid. **2006**, 66, 239-48		17
259	Effects of moderate-intensity exercise training on plasma biomarkers of inflammation and endothelial dysfunction in older patients with type 2 diabetes. *Nutrition, Metabolism and Cardiovascular Diseases*, **2006**, 16, 543-9	4.5	112
258	The association between serum uric acid level and long-term incidence of hypertension: Population-based cohort study. **2006**, 20, 937-45		134
257	Reliability of total overnight salivary caffeine assessment (TOSCA) for liver function evaluation in compensated cirrhotic patients. **2006**, 62, 605-12		15
256	Uric acid: an old dog with new tricks?. **2006**, 17, 1767-8		5
255	Biomarkers of oxidative stress and antioxidant status in children born small for gestational age: evidence of lipid peroxidation. **2007**, 62, 204-8		58
254	Serum uric acid, the endothelium and hypertension: an association revisited. **2007**, 21, 591-3		5
253	Intake of added sugar and sugar-sweetened drink and serum uric acid concentration in US men and women. **2007**, 50, 306-12		138
252	Independent association of high serum uric acid concentration with angiographically defined coronary artery disease. **2007**, 211, 369-77		13
251	Association between serum uric acid and prehypertension among US adults. **2007**, 25, 1583-9		74

250	Xanthine oxidoreductase polymorphisms: influence in blood pressure and oxidative stress levels. **2007**, 17, 589-96		18
249	Serum concentrations of uric acid and the metabolic syndrome among US children and adolescents. **2007**, 115, 2526-32		343
248	The GLUT9 gene is associated with serum uric acid levels in Sardinia and Chianti cohorts. **2007**, 3, e194		217
247	Differential association of adiponectin with cardiovascular risk markers in men and women? The KORA survey 2000. **2007**, 31, 770-6		27
246	Uric acid changes in urine and plasma: an effective tool in screening for purine inborn errors of metabolism and other pathological conditions. **2007**, 30, 295-309		28
245	Development of multiple complications in type 2 diabetes is associated with the increase of multiple markers of chronic inflammation. **2008**, 22, 6-13		7
244	The role of urate and xanthine oxidase inhibitors in cardiovascular disease. **2008**, 26, 59-64		25
243	Association of homocysteinemia with high concentrations of serum insulin and uric acid in Brazilian subjects with metabolic syndrome genotyped for C677T polymorphism in the methylenetetrahydrofolate reductase gene. **2008**, 28, 760-6		21
242	Serum uric acid and incident diabetes in Mauritian Indian and Creole populations. **2008**, 80, 321-7		28
241	Hyperuricaemia is an independent factor for the metabolic syndrome in a sub-Saharan African population: a factor analysis. **2008**, 197, 638-45		27
240	Plasma uric acid and the risk of type 2 diabetes in a Chinese community. **2008**, 54, 310-6		117
239	Associations between serum uric acid and adipokines, markers of inflammation, and endothelial dysfunction. **2008**, 31, 499-504		26
238	Inflammation in chronic heart failure. **2008**, 42, 1002-16		30
237	Cerebral ischemia mediates the effect of serum uric acid on cognitive function. **2008**, 39, 3418-20		58
236	High-normal serum uric acid is associated with impaired glomerular filtration rate in nonproteinuric patients with type 1 diabetes. **2008**, 3, 706-13		119
235	Uric acid levels are associated with all-cause and cardiovascular disease mortality independent of systemic inflammation in men from the general population: the MONICA/KORA cohort study. **2008**, 28, 1186-92		125
234	Uric acid, type 2 diabetes, and cardiovascular diseases: fueling the common soil hypothesis?. **2008**, 54, 231-3		35
233	Serum uric acid levels and risk of metabolic syndrome in healthy adults. *Endocrine Practice*, **2008**, 14, 298-304	3.2	17

232	Lithiase urique. **2008**, 1, 1-14	1
231	Vegetable but not fruit consumption reduces the risk of type 2 diabetes in Chinese women. **2008**, 138, 574-80	113
230	Systems Biology. **2009**, 459-482	
229	Plasma uric acid and hypertension in a Chinese community: prospective study and metaanalysis. **2009**, 55, 2026-34	83
228	Glut9 is a major regulator of urate homeostasis and its genetic inactivation induces hyperuricosuria and urate nephropathy. **2009**, 106, 15501-6	172
227	Oxidative stress and hyperuricaemia: pathophysiology, clinical relevance, and therapeutic implications in chronic heart failure. **2009**, 11, 444-52	114
226	Meta-analysis of 28,141 individuals identifies common variants within five new loci that influence uric acid concentrations. **2009**, 5, e1000504	495
225	NADPH oxidase has a directional response to shear stress. **2009**, 296, H152-8	47
224	Hyperglycemia and glycation in diabetic complications. **2009**, 11, 3071-109	264
223	Gender-dependent impacts of body mass index and moderate alcohol consumption on serum uric acid--an index of oxidant stress status?. **2009**, 46, 1233-8	17
222	Genetic influence on variation in serum uric acid in American Indians: the strong heart family study. **2009**, 126, 667-76	16
221	Uric acid and risk of myocardial infarction, stroke and congestive heart failure in 417,734 men and women in the Apolipoprotein MOrtality RISk study (AMORIS). **2009**, 266, 558-70	180
220	Concurrent decline of several antioxidants and markers of oxidative stress during combination chemotherapy for small cell lung cancer. **2009**, 42, 1236-45	15
219	Serum uric acid levels in patients with Parkinson's disease: their relationship to treatment and disease duration. **2009**, 111, 724-8	90
218	Association of serum uric acid level with non-alcoholic fatty liver disease: a cross-sectional study. **2009**, 50, 1029-34	182
217	[Uric acid predicts type 2 diabetes mellitus in the general population]. **2009**, 56, 66-70	7
216	Systems Biology. **2009**, 279-312	
215	Local and systemic oxidant/antioxidant status before and during lung cancer radiotherapy. **2009**, 43, 646-57	10

214	Litiasis Ibica. **2009**, 41, 1-15		
213	Association of cognitive function with serum uric acid level among Chinese nonagenarians and centenarians. **2010**, 45, 331-5		22
212	The Association Between Uric Acid and Hepatic Function Markers With the Metabolic Syndrome in Middle-aged, Overweight, and Obese People. **2010**, 20, 312-315		0
211	Prevalence and determinants of hyperuricemia in middle-aged, urban Chinese men. *Metabolic Syndrome and Related Disorders*, **2010**, 8, 263-70	2.6	39
210	Inability of legumes to reverse diabetic-induced nephropathy in rats despite improvement in blood glucose and antioxidant status. **2010**, 13, 163-9		9
209	Letter by George regarding article, "Uric acid-lowering treatment with benzbromarone in patients with heart failure: a double-blind placebo-controlled cross-over preliminary study". **2010**, 3, e10; author reply e14		
208	Uric acid and antioxidant effects of wine. **2010**, 51, 16-22		18
207	Association of perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) with uric acid among adults with elevated community exposure to PFOA. **2010**, 118, 229-33		138
206	Replication of the five novel loci for uric acid concentrations and potential mediating mechanisms. **2010**, 19, 387-95		79
205	Impact of fluoxetine on liver damage in rats. **2011**, 63, 441-7		40
204	Antioxidants, redox signaling, and pathophysiology in schizophrenia: an integrative view. **2011**, 15, 2011-35		200
203	Noninvasive skin measurements to monitor chronic renal failure pathogenesis. **2011**, 65, 280-5		9
202	Hypertension in kidney transplant recipients. **2011**, 24, 523-33		61
201	Factors associated with a prolonged QT interval in liver cirrhosis patients. **2011**, 44, 105-8		22
200	N-(2-mercaptopropionyl)-glycine but not allopurinol prevented cigarette smoke-induced alveolar enlargement in mouse. **2011**, 175, 322-30		11
199	An exploratory study of serum urate levels in patients with amyotrophic lateral sclerosis. **2011**, 258, 238-43		40
198	Serum uric acid associates with the incidence of type 2 diabetes in a prospective cohort of middle-aged and elderly Chinese. **2011**, 40, 109-16		56
197	Relationship of oxidized low density lipoprotein with lipid profile and oxidative stress markers in healthy young adults: a translational study. **2011**, 10, 61		19

196	High levels of hsCRP are associated with carbohydrate metabolism disorder. **2011**, 25, 375-81		2
195	Oxidative stress, antioxidant status and lipid profile in the saliva of type 2 diabetics. **2011**, 8, 22-8		90
194	Possible Mechanisms of Local Tissue Renin-Angiotensin System Activation in the Cardiorenal Metabolic Syndrome and Type 2 Diabetes Mellitus. **2011**, 1, 193-210		38
193	Serum uric acid level as a marker for mortality and acute kidney injury in patients with acute paraquat intoxication. **2011**, 26, 1846-52		23
192	Hyperuricemia as a mediator of the proinflammatory endocrine imbalance in the adipose tissue in a murine model of the metabolic syndrome. **2011**, 60, 1258-69		284
191	Lipid and protein oxidation products, antioxidant status and vascular complications in poorly controlled type 2 diabetes. **2012**, 12, 33-39		14
190	Determinants of blood uric acid levels in a dyslipidemic Arab population. **2012**, 21, 209-16		8
189	Uric acid and mortality in elderly Chinese: a 10-year population-based cohort study. **2012**, 60, 1783-5		2
188	Renal transport of uric acid: evolving concepts and uncertainties. **2012**, 19, 358-71		210
187	Identification and mode of action of 5-hydroxymethyl-2-furfural (5-hmf) and 1-methyl-1,2,3,4-tetrahydro-β-carboline-3-carboxylic acid (MTCA) as potent xanthine oxidase inhibitors in vinegars. **2012**, 60, 9856-62		19
186	Coronary calcium score, albuminuria and inflammatory markers in type 2 diabetic patients: associations and prognostic implications. **2012**, 98, 98-103		12
185	Association between hyperuricemia, prediabetes, and prehypertension in the Croatian adult population--a cross-sectional study. **2012**, 12, 117		11
184	Uric Acid: a clearer focus. **2012**, 19, 353-5		1
183	The uric acid metabolism pathway as a therapeutic target in hyperuricemia related to metabolic syndrome. **2012**, 16, 1175-87		24
182	Reducing effect of mangiferin on serum uric acid levels in mice. **2012**, 50, 1177-82		21
181	Antioxidant and antiarthritic potential of coriander (Coriandrum sativum L.) leaves. **2012**, 7, e223-e228		4
180	Associations between purine metabolites and clinical symptoms in schizophrenia. *PLoS ONE*, **2012**, 7, e42165	3.7	23
179	Optical method for cardiovascular risk marker uric acid removal assessment during dialysis. **2012**, 2012, 506486		8

178	The effect of depurinized milk draught diet on rat serum uric acid, lipid status and haematological parameters. **2012**, 96, 640-7		5
177	Association between serum uric acid levels and cardiovascular risk among university workers from the State of Mexico: a nested case-control study. **2013**, 13, 415		2
176	Trace elements and oxidative stress in hypertensive disorders of pregnancy. **2013**, 287, 19-24		29
175	Insulin resistance, inflammation, and nonalcoholic fatty liver disease in non-obese adults without metabolic syndrome components. **2013**, 7, 586-91		5
174	Modulation of the endogenous antioxidants paraoxonase-1 and urate by pesticide exposure and genetic variants of xenobiotic-metabolizing enzymes. **2013**, 61, 164-70		11
173	An inverted J-shaped association of serum uric acid with muscle strength among Japanese adult men: a cross-sectional study. **2013**, 14, 258		26
172	Exploratory investigation of plasma metabolomics in human lung adenocarcinoma. **2013**, 9, 2370-8		46
171	Uric acid modulates vascular endothelial function through the down regulation of nitric oxide production. **2013**, 47, 82-8		48
170	Metabolic syndrome is a risk factor for the development of chronic renal disease. **2013**, 35, 460-5		2
169	Serum uric acid: a forgotten prognostic marker in acute coronary syndromes?. **2013**, 2, 44-52		16
168	Uric acid: a cardiovascular risk factor in patients with recent myocardial infarction. **2013**, 167, 262-9		30
167	Higher uric acid levels are associated with better functional recovery in elderly patients receiving cardiac rehabilitation. *Nutrition, Metabolism and Cardiovascular Diseases*, **2013**, 23, 1210-5	4.5	9
166	A gender-specific analysis of association between hyperuricaemia and cardiovascular events in patients with coronary artery disease. *Nutrition, Metabolism and Cardiovascular Diseases*, **2013**, 23, 1195-201	4.5	32
165	Photoelectron spectra of some important biological molecules: symmetry-adapted-cluster configuration interaction study. **2013**, 117, 6027-41		22
164	Serum uric acid in relation to endogenous reproductive hormones during the menstrual cycle: findings from the BioCycle study. **2013**, 28, 1853-62		65
163	Uric Acid - key ingredient in the recipe for cardiorenal metabolic syndrome. **2013**, 3, 208-220		114
162	Urate-induced acute renal failure and chronic inflammation in liver-specific Glut9 knockout mice. **2013**, 305, F786-95		22
161	Metabolic syndrome, diabetes, and hyperuricemia. **2013**, 25, 210-6		197

160	Associations of uric acid and gamma-glutamyltransferase (GGT) with obesity and components of metabolic syndrome in children and adolescents. **2013**, 8, 351-7		22
159	Uric acid and prognosis in angiography-proven coronary artery disease. **2013**, 43, 256-66		31
158	Is serum urate causally associated with incident cardiovascular disease?. *Rheumatology*, **2013**, 52, 135-423.9		13
157	Serum uric acid levels and non-alcoholic fatty liver disease in Uyghur and Han ethnic groups in northwestern China. **2013**, 57, 617-22		23
156	Metabolic syndrome, alcohol consumption and genetic factors are associated with serum uric acid concentration. *PLoS ONE*, **2014**, 9, e97646	3.7	36
155	Complex analysis of urate transporters SLC2A9, SLC22A12 and functional characterization of non-synonymous allelic variants of GLUT9 in the Czech population: no evidence of effect on hyperuricemia and gout. *PLoS ONE*, **2014**, 9, e107902	3.7	29
154	The prevalence of nonalcoholic fatty liver disease and relationship with serum uric acid level in Uyghur population. **2014**, 2014, 393628		13
153	Estrogen receptor signaling induces autophagy and downregulates Glut9 expression. **2014**, 33, 455-65		9
152	Replication of the effect of SLC2A9 genetic variation on serum uric acid levels in American Indians. **2014**, 22, 938-43		22
151	Pioglitazone, quercetin and hydroxy citric acid effect on hepatic biomarkers in Non Alcoholic Steatohepatitis. **2014**, 6, 153-62		11
150	Short communication: Effect of commercial or depurinized milk diet on plasma advanced oxidation protein products, cardiovascular markers, and bone marrow CD34+ stem cell potential in rat experimental hyperuricemia. **2014**, 97, 6823-7		7
149	Serum concentration of uric acid associated with prehypertension among Chinese population. **2014**, 65, 800-5		9
148	Activation of ERK1/2 by NADPH oxidase-originated reactive oxygen species mediates uric acid-induced mesangial cell proliferation. **2014**, 307, F396-406		29
147	Association between serum uric acid level and microalbuminuria to chronic vascular complications in Thai patients with type 2 diabetes. **2014**, 28, 124-9		31
146	Metabolite profiling reveals new insights into the regulation of serum urate in humans. **2014**, 10, 141-151		36
145	Clinical investigation of metabolic syndrome in the female elderly occupational population. **2014**, 26, 453-60		1
144	Serum uric acid level is associated with the prevalence but not with survival of amyotrophic lateral sclerosis in a Chinese population. **2014**, 29, 771-5		20
143	The pathophysiology of hypertension in patients with obesity. **2014**, 10, 364-76		268

142	Mitochondrial dysfunction in the pathophysiology of renal diseases. **2014**, 306, F367-78		243
141	Uric acid and central nervous system functioning (a literature review). **2014**, 4, 210-221		7
140	Postterm births: are prolonged pregnancies too long?. **2014**, 164, 647-51		7
139	Associations of serum uric acid levels with cardiovascular health factors: differences by sex, age and body mass index in Chinese participants. **2014**, 25, 388-93		14
138	Decreased uric acid levels correlate with poor outcomes in acute ischemic stroke patients, but not in cerebral hemorrhage patients. **2014**, 23, 469-75		40
137	Oxidative Stress in Metabolic Syndrome. **2014**, 246-259		2
136	Dose-response Relationship of Serum Uric Acid with Metabolic Syndrome and Non-alcoholic Fatty Liver Disease Incidence: A Meta-analysis of Prospective Studies. **2015**, 5, 14325		59
135	Local false discovery rate estimation using feature reliability in LC/MS metabolomics data. **2015**, 5, 17221		17
134	Interaction between pro-inflammatory cytokines and brain oxidative stress biomarkers of khat, cathinone and pseudoephedrine hydrochloride intoxication in male mice. **2015**, 9, 585-594		1
133	Correlation of Vitreous Vascular Endothelial Growth Factor and Uric Acid Concentration Using Optical Coherence Tomography in Diabetic Macular Edema. **2015**, 2015, 478509		15
132	Advanced glycation end-products: modifiable environmental factors profoundly mediate insulin resistance. **2015**, 57, 1-12		53
131	Correlation of serum uric acid with heart rate variability in hypertension. **2015**, 32, 133-41		5
130	No development of hypertension in the hyperuricemic liver-Glut9 knockout mouse. **2015**, 87, 940-7		22
129	Inverse Levels of Adiponectin in Type 1 and Type 2 Diabetes Are in Accordance with the State of Albuminuria. **2015**, 2015, 372796		154
128	Serum Uric Acid and Pulse Wave Velocity Among Healthy Adults: Baseline Data From the Brazilian Longitudinal Study of Adult Health (ELSA-Brasil). **2015**, 28, 966-70		28
127	When gout goes to the heart: does gout equal a cardiovascular disease risk factor?. **2015**, 74, 631-4		27
126	Uric acid promotes chemokine and adhesion molecule production in vascular endothelium via nuclear factor-kappa B signaling. *Nutrition, Metabolism and Cardiovascular Diseases*, **2015**, 25, 187-94	4.5	40
125	Two-year Follow-up Study of the Relationship between the Changes of Serum Homocysteine and Those of Serum Uric Acid Levels, Lipid Profiles and Renal Function in Gout Patients. **2016**, 23, 30		

124	Prevalence and Factors Associated with Nonalcoholic Fatty Liver Disease in a Nonobese Korean Population. *Gut and Liver*, **2016**, 10, 117-25	4.8	39
123	Uric Acid for Cardiovascular Risk: Dr. Jekyll or Mr. Hide?. **2016**, 4,		18
122	The Potential Biomarkers to Identify the Development of Steatosis in Hyperuricemia. *PLoS ONE*, **2016**, 11, e0149043	3.7	10
121	Serum Uric Acid Is Associated with Cerebral White Matter Hyperintensities in Patients with Acute Lacunar Infarction. **2016**, 26, 351-4		7
120	Association between subchronic and chronic lead exposure and levels of antioxidants and chemokines. **2016**, 89, 1077-85		16
119	Bidirectional Association between Diabetes and Gout: the Singapore Chinese Health Study. **2016**, 6, 25766		23
118	Serum uric acid as a marker of microvascular damage in systemic sclerosis patients. **2016**, 106, 39-43		13
117	Related factors of serum uric acid in patients with primary hypertension and hyperhomocysteinemia. *Clinical and Experimental Hypertension*, **2016**, 38, 312-6	2.2	8
116	Association of cognitive function and serum uric acid: Are cardiovascular diseases a mediator among women?. **2016**, 81, 37-41		12
115	Loss-of-function variants influence the human serum metabolome. **2016**, 2, e1600800		27
114	Febuxostat is superior to traditional urate-lowering agents in reducing the progression of kidney function in chronic kidney disease patients. **2016**, 3, 1213215		1
113	Uric acid and essential hypertension: the endothelial connection. **2016**, 34, 2138-9		10
112	Hyperuricaemia in patients with type 2 diabetes in a tertiary healthcare centre in sub-Saharan Africa: prevalence and determinants. **2016**, 46, 216-221		4
111	Effects of non-supervised low intensity aerobic excise training on the microvascular endothelial function of patients with type 1 diabetes: a non-pharmacological interventional study. **2016**, 16, 23		25
110	Biomarkers of Metabolic Syndrome: Biochemical Background and Clinical Significance. *Metabolic Syndrome and Related Disorders*, **2016**, 14, 47-93	2.6	16
109	Hyperuricemia and nonalcoholic fatty liver disease: from bedside to bench and back. **2016**, 10, 286-93		15
108	Mechanism-based pharmacokinetic-pharmacodynamic modeling of salvianolic acid A effects on plasma xanthine oxidase activity and uric acid levels in acute myocardial infarction rats. **2017**, 47, 208-216		7
107	Association between the hypertriglyceridemic waist phenotype and hyperuricemia: a cross-sectional study. **2017**, 36, 1111-1119		18

106	Phloretin attenuates hyperuricemia-induced endothelial dysfunction through co-inhibiting inflammation and GLUT9-mediated uric acid uptake. **2017**, 21, 2553-2562	24
105	Xanthine oxidase inhibition protects against Western diet-induced aortic stiffness and impaired vasorelaxation in female mice. **2017**, 313, R67-R77	17
104	Serum metabolome biomarkers associate low-level environmental perfluorinated compound exposure with oxidative /nitrosative stress in humans. **2017**, 229, 168-176	42
103	Relationship between serum uric acid and ischemic stroke in a large type 2 diabetes population in China: A cross-sectional study. **2017**, 376, 176-180	16
102	Anti-mutagenicity, hypouricemic and antioxidant activities of alkaloids from vinegar and mei vinegar. **2017**, 41, e12373	3
101	Inflammatory status and uricaemia determine HDL-cholesterol levels in hypertensive adults over 65: an analysis of the FAPRES register. **2017**, 37, 941-948	1
100	Serum uric acid is associated with better executive function in men but not in women: Baseline assessment of the ELSA-Brasil study. **2017**, 92, 82-86	11
99	Association between body mass index and salivary uric acid among Mexican-origin infants, youth and adults: Gender and developmental differences. **2017**, 59, 225-234	11
98	Temporal Relationship Between Hyperuricemia and Insulin Resistance and Its Impact on Future Risk of Hypertension. **2017**, 70, 703-711	37
97	Effect of allopurinol and uric acid normalization on serum lipids hyperuricemic subjects: A systematic review with meta-analysis. **2017**, 50, 1289-1297	6
96	Sex-dependent effects of uric acid on cerebral microbleed: a cross-sectional study in the general population. **2017**, 24, 1300-1306	5
95	Effect of uric acid on inflammatory COX-2 and ROS pathways in vascular smooth muscle cells. **2017**, 37, 500-505	18
94	Simultaneous Determination of Uric Acid, Xanthine and Hypoxanthine in Human Plasma and Serum by HPLC□UV: Uric Acid Metabolism Tracking. **2017**, 80, 529-536	11
93	Inflammation in Heart Failure: known knowns and unknown unknowns. **2017**, 18, 1225-1233	16
92	In-situ Generation of Au Nanostructures During Enzyme Free Oxidation of Uric Acid: A New Recognition at an Old Problem. **2017**, 19, 5-8	3
91	Uric acid is independent cardiovascular risk factor, as manifested by increased carotid intima-media thickness in rheumatoid arthritis patients. **2017**, 36, 1897-1902	7
90	Serum uric acid is an independent predictor for developing prehypertension: a population-based prospective cohort study. **2017**, 31, 116-120	12
89	Association of plasma free amino acids with hyperuricemia in relation to diabetes mellitus, dyslipidemia, hypertension and metabolic syndrome. **2017**, 7, 17616	10

88	Dietary patterns associated hyperuricemia among Chinese aged 45 to 59 years: An observational study. *Medicine (United States)*, **2017**, 96, e9248	1.8	6
87	Luteolin-4PO-glucoside and its aglycone, two major flavones of Gnaphalium affine D. Don, resist hyperuricemia and acute gouty arthritis activity in animal models. **2018**, 41, 54-61		24
86	Influence of exposure to perfluoroalkyl substances (PFASs) on the Korean general population: 10-year trend and health effects. **2018**, 113, 149-161		53
85	Treatment of Hypertension in Renal Transplant Recipients in Four Independent Cross-Sectional Analyses. **2018**, 43, 45-54		6
84	Metabolic phenotyping of human atherosclerotic plaques: Metabolic alterations and their biological relevance in plaque-containing aorta. **2018**, 269, 21-28		14
83	5-Hydroxymethylfurfural (HMF) levels in honey and other food products: effects on bees and human health. **2018**, 12, 35		150
82	Toward an Understanding of Structural Insights of Xanthine and Aldehyde Oxidases: An Overview of their Inhibitors and Role in Various Diseases. **2018**, 38, 1073-1125		53
81	Uric acid and obesity-related phenotypes in postmenopausal women. **2018**, 443, 111-119		4
80	Uric Acid and Xanthine Levels in Pregnancy Complicated by Gestational Diabetes Mellitus-The Effect on Adverse Pregnancy Outcomes. **2018**, 19,		6
79	Metabolic impairments and tissue disorders in alloxan-induced diabetic rats are alleviated by Salvia officinalis L. essential oil. **2018**, 108, 985-995		13
78	Joint associations of serum uric acid and ALT with NAFLD in elderly men and women: a Chinese cross-sectional study. **2018**, 16, 285		10
77	Uric acid and cardiovascular disease. **2018**, 484, 150-163		151
76	Glut9-mediated Urate Uptake Is Responsible for Its Protective Effects on Dopaminergic Neurons in Parkinson's Disease Models. **2018**, 11, 21		7
75	Serum uric acid as a risk factor of all-cause mortality and cardiovascular events among type 2 diabetes population: Meta-analysis of correlational evidence. **2019**, 33, 107409		13
74	Targeted metabolomics for serum amino acids and acylcarnitines in patients with lung cancer. **2019**, 18, 188-198		20
73	The Paradoxical Role of Uric Acid in Osteoporosis. *Nutrients*, **2019**, 11,	6.7	20
72	Effect of protein hydrolysates from carp (Cyprinus carpio) skin gelatine on oxidative stress biomarkers and other blood parameters in healthy rats. **2019**, 60, 103411		6
71	Allopurinol treatment adversely impacts left ventricular mass regression in patients with well-controlled hypertension. **2019**, 37, 2481-2489		12

70	Tryptophan residue enhances in vitro walnut protein-derived peptides exerting xanthine oxidase inhibition and antioxidant activities. **2019**, 53, 276-285		21
69	Non-invasive disease diagnosis using surface-enhanced Raman spectroscopy of urine and saliva. **2020**, 55, 197-219		16
68	Vitreous Antioxidants, Degeneration, and Vitreo-Retinopathy: Exploring the Links. *Antioxidants*, **2019**, 9,	7.1	19
67	Metabolic Signatures of the Exposome-Quantifying the Impact of Exposure to Environmental Chemicals on Human Health. *Metabolites*, **2020**, 10,	5.6	16
66	Urate-Lowering Therapy May Prevent the Development of Coronary Artery Disease in Patients With Gout. *Frontiers in Medicine*, **2020**, 7, 63	4.9	4
65	Urate-lowering therapy may mitigate the risks of hospitalized stroke and mortality in patients with gout. *PLoS ONE*, **2020**, 15, e0234909	3.7	4
64	The Different Relationship between Homocysteine and Uric Acid Levels with Respect to the MTHFR C677T Polymorphism According to Gender in Patients with Cognitive Impairment. *Nutrients*, **2020**, 12,	6.7	3
63	Association between retinol intake and hyperuricaemia in adults. *Public Health Nutrition*, **2021**, 24, 2205-2214	3.5	0
62	Association of the Serum Uric Acid-to-Creatinine Ratio with Nonalcoholic Fatty Liver Disease Diagnosed by Computed Tomography. *Metabolic Syndrome and Related Disorders*, **2021**, 19, 70-75	2.6	2
61	Serum uric acid and risk of prehypertension: a dose-response meta-analysis of 17 observational studies of approximately 79 thousand participants. *Acta Cardiologica*, **2021**, 1-10	0.9	
60	Association Between Serum Uric Acid Levels and Cognitive Function in Patients with Ischemic Stroke and Transient Ischemic Attack (TIA): A 3-Month Follow-Up Study. *Neuropsychiatric Disease and Treatment*, **2021**, 17, 991-999	3.1	2
59	Diabetes Mellitus: Insights from Epidemiology, Biochemistry, Risk Factors, Diagnosis, Complications and Comprehensive Management. *International Journal of Diabetology*, **2021**, 2, 36-50	1	10
58	Hyperuricemia and Cardiovascular Risk. *Cureus*, **2021**, 13, e14855	1.2	1
57	Serum Uric Acid and Diabetes: From Pathophysiology to Cardiovascular Disease. *Current Pharmaceutical Design*, **2021**, 27, 1941-1951	3.3	7
56	Association Between Uric Acid and Insulin-Like Growth Factor-1 in Type 2 Diabetes Mellitus. *International Journal of General Medicine*, **2021**, 14, 4017-4023	2.3	0
55	Hyperuricemia, Elevated Body Mass Index, Female Sex, and Albuminuria Increase the Probability of Elevated High-Sensitivity C-Reactive Protein: Results From the National Health and Nutrition Examination Survey 2015-2018. *Frontiers in Public Health*, **2021**, 9, 689219	6	
54	Relationship between serum uric acid level and nonalcoholic fatty liver disease in type 2 diabetes patients. *Medicine (United States)*, **2021**, 100, e26946	1.8	4
53	Health risk assessment of exposure to organochlorine pesticides in the general population in Seoul, Korea over 12 years: A cross-sectional epidemiological study. *Journal of Hazardous Materials*, **2022**, 424, 127381	12.8	2

52	Patients with REM sleep behavior disorder have higher serum levels of allantoin. *Parkinsonism and Related Disorders*, **2021**, 90, 38-43	3.6	0
51	Influencing factors for hepatic fat accumulation in patients with type 2 diabetes mellitus. *World Journal of Clinical Cases*, **2021**, 9, 7717-7728	1.6	0
50	The visceral fat area to leg muscle mass ratio is significantly associated with the risk of hyperuricemia among women: a cross-sectional study. *Biology of Sex Differences*, **2021**, 12, 17	9.3	1
49	Effects of bariatric surgery on serum uric acid in people with obesity with or without hyperuricaemia and gout: a retrospective analysis. *Rheumatology*, **2021**, 60, 3628-3634	3.9	6
48	Optical Monitoring of Dialysis Dose. *Studies in Computational Intelligence*, **2013**, 867-928	0.8	3
47	Beneficial Effect of Dietary Fiber on Hyperuricemia in Rats and Humans: A Review. *International Journal for Vitamin and Nutrition Research*, **2019**, 89, 89-108	1.7	4
46	Metabolic profiling of the response to an oral glucose tolerance test detects subtle metabolic changes. *PLoS ONE*, **2009**, 4, e4525	3.7	94
45	Homeostatic imbalance of purine catabolism in first-episode neuroleptic-naïve patients with schizophrenia. *PLoS ONE*, **2010**, 5, e9508	3.7	53
44	High serum uric acid increases the risk for nonalcoholic Fatty liver disease: a prospective observational study. *PLoS ONE*, **2010**, 5, e11578	3.7	96
43	Pre-pubertal children born post-term have reduced insulin sensitivity and other markers of the metabolic syndrome. *PLoS ONE*, **2013**, 8, e67966	3.7	17
42	Associations of serum uric acid and SLC2A9 variant with depressive and anxiety disorders: a population-based study. *PLoS ONE*, **2013**, 8, e76336	3.7	18
41	The prevalence of thyroid nodules in northwest China and its correlation with metabolic parameters and uric acid. *Oncotarget*, **2017**, 8, 41555-41562	3.3	16
40	Serum Uric Acid is Independently Associated with Diastolic Dysfunction in Apparently Healthy Subjects with Essential Hypertension. *Current Vascular Pharmacology*, **2019**, 17, 99-106	3.3	8
39	Association of Glomerular Filtration Rate with Inflammation in Polycystic Ovary Syndrome. *International Journal of Fertility & Sterility*, **2015**, 9, 176-82	1.9	8
38	Associations between purine metabolites and monoamine neurotransmitters in first-episode psychosis. *Frontiers in Cellular Neuroscience*, **2013**, 7, 90	6.1	21
37	Study of oxidants and antioxidants in patients of acute myocardial infarction. *Advanced Biomedical Research*, **2015**, 4, 241	1.2	6
36	Association of serum uric acid concentration with components of pediatric metabolic syndrome: A systematic review and meta-analysis. *Journal of Research in Medical Sciences*, **2020**, 25, 43	1.6	8
35	Serum Uric Acid Levels and Risk of Metabolic Syndrome in Healthy Adults. *Endocrine Practice*, **2008**, 14, 298-304	3.2	2

34	Serum uric Acid as a predictor for the development of nonalcoholic Fatty liver disease in apparently healthy subjects: a 5-year retrospective cohort study. *Gut and Liver*, **2010**, 4, 378-83	4.8	57
33	Serum Uric Acid Could Differentiate Acute Myocardial Infarction and Unstable Angina Pectoris in Hyperuricemic Acute Coronary Syndrome Patients. *Medicinski Arhiv = Medical Archives = Archives De Médecine*, **2017**, 71, 115-118	1.2	10
32	Triglyceride-glucose index is a predictive index of hyperuricemia events in elderly patients with hypertension: a cross-sectional study. *Clinical and Experimental Hypertension*, **2021**, 1-6	2.2	1
31	INFECTIONS. **2007**, 211-242		
30	SKIN COMPLICATIONS. **2007**, 337-360		
29	Uric Acid as a Toxin. **2009**, 1100-1102		
28	Reactive Oxygen Species and Diabetic Peripheral Neuropathy A Closer Look. **2014**, 3375-3403		
27	TO STUDY SERUM URIC ACID AS A RISK FACTOR IN ACUTE ISCHAEMIC STROKE. *Journal of Evolution of Medical and Dental Sciences*, **2017**, 6, 647-652	0.1	
26	STUDY OF SERUM URIC ACID LEVEL IN DIABETES MELLITUS WITH SPECIAL REFERENCE TO CARDIOVASCULAR RISK FACTORS. *Journal of Evidence Based Medicine and Healthcare*, **2018**, 5, 753-761	0	
25	Cross-sectional analysis of the association between serum uric acid levels and handgrip strength among Chinese adults over 45 years of age. *Annals of Translational Medicine*, **2020**, 8, 1562	3.2	1
24	Central Macular Thickness in Diabetic Macular Edema. *Acta Endocrinologica*, **2020**, 16, 417-425	0.9	2
23	Molekulare Regulation der Bildung und Inaktivierung reaktiver Sauerstoffspezies. **2006**, 159-199		
22	Vitamin C intake and serum uric acid concentration in men. *Journal of Rheumatology*, **2008**, 35, 1853-8	4.1	63
21	Oxidative Balance Scores (OBSs) Integrating Nutrient, Food and Lifestyle Dimensions: Development of the NutrientL-OBS and FoodL-OBS.. *Antioxidants*, **2022**, 11,	7.1	1
20	Research Progress on the Correlation between Serum Uric Acid Level and Type 2 Diabetic Retinopathy. *Advances in Clinical Medicine*, **2022**, 12, 1618-1622	0	
19	Elevated level of uric acid, but not glucose, in aqueous humor as a risk factor for diabetic macular edema in patients with type 2 diabetes.. *Retina*, **2022**,	3.6	
18	Uricaemia and associated health determinants in a paediatric population in Mexico.. *Nutrition, Metabolism and Cardiovascular Diseases*, **2022**,	4.5	1
17	Association between Serum Uric Acid Levels and Bone Mineral Density in Postmenopausal Women: A Cross-Sectional and Longitudinal Study.. *Healthcare (Switzerland)*, **2021**, 9,	3.4	1

16	RELEVANCE OF HYDROXYMETHYLFURFURAL AND MELANOIDINS AS PRODUCTS OF MAILLARD REACTIONS IN HONEY. *Uludag Aricilik Dergisi*,	0.3	
15	The Influence of Serum Uric Acid on the Brain and Cognitive Dysfunction.. *Frontiers in Psychiatry*, **2022**, 13, 828476	5	1
14	Antioxidant Effect of Tyr-Ala Extracted from Zein on INS-1 Cells and Type 2 Diabetes High-Fat-Diet-Induced Mice. *Antioxidants*, **2022**, 11, 1111	7.1	
13	Components of the Purine Metabolism Pathways As Biomarkers for the Early Diagnosis of Diabetes. *Biomarkers in Disease*, **2022**, 1-25		
12	Effects of dietary supplementation of gestating sows with adenosine 5 Pmonophosphate or adenosine on placental angiogenesis and vitality of their offspring. *Journal of Animal Science*,	0.7	0
11	Additional Evidence for Commonalities between COVID-19 and Radiation Injury: Novel Insight into COVID-19 Candidate Drugs. *Radiation Research*, **2022**,	3.1	0
10	Development of a Nonenzymatic Colorimetric Sensor for the Detection of Uric Acid Based on Ionic Liquid-Mediated Nickel Nanostructures. *ACS Omega*,	3.9	1
9	Effect of APOB gene polymorphisms on body mass index, blood pressure, and total cholesterol levels: A cross-sectional study in Mexican population. **2022**, 101, e30457		0
8	Incident gout and risk of first-time acute coronary syndrome: a prospective, population-based, cohort study in Sweden.		0
7	Components of the Purine Metabolism Pathways as Biomarkers for the Early Diagnosis of Diabetes. **2023**, 127-151		0
6	p-Synephrine ameliorates alloxan-induced diabetes mellitus through inhibiting oxidative stress and inflammation via suppressing NF-kappa B and MAPK pathway.		0
5	Advances of SERS applications in clinic samples analysis. 1-30		0
4	Targeted and non-targeted metabolomics uncovering the effects of Er-Miao-Wan formula on rats with hyperuricemia. **2023**, 226, 115246		0
3	Sex-dependent association analysis between serum uric acid and spontaneous hemorrhagic transformation in patients with ischemic stroke. 14,		0
2	Novel Reversible Inhibitors of Xanthine Oxidase Targeting the Active Site of the Enzyme. **2023**, 12, 825		0
1	Furfural and Hydroxymethylfurfural. **2023**, 152-166		0