Masato Furuhashi

List of Publications by Citations

99 papers	7,505 citations	33 h-index	86 g-index
119 ext. papers	8,657 ext. citations	6.9 avg, IF	5.93 L-index

#	Paper	IF	Citations
99	Chemical chaperones reduce ER stress and restore glucose homeostasis in a mouse model of type 2 diabetes. *Science*, **2006**, 313, 1137-40	33.3	1921
98	Fatty acid-binding proteins: role in metabolic diseases and potential as drug targets. *Nature Reviews Drug Discovery*, **2008**, 7, 489-503	64.1	1002
97	Treatment of diabetes and atherosclerosis by inhibiting fatty-acid-binding protein aP2. *Nature*, **2007**, 447, 959-65	50.4	525
96	Blockade of the renin-angiotensin system increases adiponectin concentrations in patients with essential hypertension. *Hypertension*, **2003**, 42, 76-81	8.5	409
95	Double-stranded RNA-dependent protein kinase links pathogen sensing with stress and metabolic homeostasis. *Cell*, **2010**, 140, 338-48	56.2	384
94	Adipocyte/macrophage fatty acid binding proteins control integrated metabolic responses in obesity and diabetes. *Cell Metabolism*, **2005**, 1, 107-19	24.6	358
93	Adipocyte/macrophage fatty acid-binding proteins contribute to metabolic deterioration through actions in both macrophages and adipocytes in mice. *Journal of Clinical Investigation*, **2008**, 118, 2640-50	15.9	215
92	Urinary angiotensin-converting enzyme 2 in hypertensive patients may be increased by olmesartan, an angiotensin II receptor blocker. *American Journal of Hypertension*, **2015**, 28, 15-21	2.3	174
91	Adipocyte lipid chaperone AP2 is a secreted adipokine regulating hepatic glucose production. *Cell Metabolism*, **2013**, 17, 768-78	24.6	157
90	Coordinated regulation of nutrient and inflammatory responses by STAMP2 is essential for metabolic homeostasis. *Cell*, **2007**, 129, 537-48	56.2	157
89	Fatty Acid-Binding Protein 4 (FABP4): Pathophysiological Insights and Potent Clinical Biomarker of Metabolic and Cardiovascular Diseases. *Clinical Medicine Insights: Cardiology*, **2014**, 8, 23-33	3.2	156
88	Blockade of the renin-angiotensin system decreases adipocyte size with improvement in insulin sensitivity. *Journal of Hypertension*, **2004**, 22, 1977-82	1.9	137
87	A predominant role for parenchymal c-Jun amino terminal kinase (JNK) in the regulation of systemic insulin sensitivity. *PLoS ONE*, **2008**, 3, e3151	3.7	89
86	Circulating levels of fatty acid-binding protein family and metabolic phenotype in the general population. *PLoS ONE*, **2013**, 8, e81318	3.7	88
85	Prevalence of asymptomatic ST segment elevation in right precordial leads with right bundle branch block (Brugada-type ST shift) among the general Japanese population. *British Heart Journal*, **2001**, 86, 161-6		81
84	Fatty Acid-Binding Protein 4 in Cardiovascular and Metabolic Diseases. *Journal of Atherosclerosis and Thrombosis*, **2019**, 26, 216-232	4	77
83	Lipid chaperones and metabolic inflammation. *International Journal of Inflammation*, **2011**, 2011, 642612	6.4	76

82	Local Production of Fatty Acid-Binding Protein 4 in Epicardial/Perivascular Fat and Macrophages Is Linked to Coronary Atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2016**, 36, 825-34	9.4	70
81	Serum fatty acid-binding protein 4 is a predictor of cardiovascular events in end-stage renal disease. *PLoS ONE*, **2011**, 6, e27356	3.7	66
80	Reduction of endoplasmic reticulum stress by 4-phenylbutyric acid prevents the development of hypoxia-induced pulmonary arterial hypertension. *American Journal of Physiology - Heart and Circulatory Physiology*, **2014**, 306, H1314-23	5.2	63
79	Elevation of fatty acid-binding protein 4 is predisposed by family history of hypertension and contributes to blood pressure elevation. *American Journal of Hypertension*, **2012**, 25, 1124-30	2.3	62
78	FABP4 is secreted from adipocytes by adenyl cyclase-PKA- and guanylyl cyclase-PKG-dependent lipolytic mechanisms. *Obesity*, **2015**, 23, 359-67	8	59
77	Insulin sensitivity and lipid metabolism in human CD36 deficiency. *Diabetes Care*, **2003**, 26, 471-4	14.6	58
76	Liddle's syndrome caused by a novel mutation in the proline-rich PY motif of the epithelial sodium channel beta-subunit. *Journal of Clinical Endocrinology and Metabolism*, **2005**, 90, 340-4	5.6	58
75	Elevation of circulating fatty acid-binding protein 4 is independently associated with left ventricular diastolic dysfunction in a general population. *Cardiovascular Diabetology*, **2014**, 13, 126	8.7	57
74	Fenofibrate improves insulin sensitivity in connection with intramuscular lipid content, muscle fatty acid-binding protein, and beta-oxidation in skeletal muscle. *Journal of Endocrinology*, **2002**, 174, 321-9	4.7	57
73	Emerging issues in radiogenic cataracts and cardiovascular disease. *Journal of Radiation Research*, **2014**, 55, 831-46	2.4	55
72	Small-molecule inhibitors of PKR improve glucose homeostasis in obese diabetic mice. *Diabetes*, **2014**, 63, 526-34	0.9	47
71	Role of adiponectin in insulin-resistant hypertension and atherosclerosis. *Hypertension Research*, **2003**, 26, 705-10	4.7	45
70	Plasma Xanthine Oxidoreductase Activity as a Novel Biomarker of Metabolic Disorders in a General Population. *Circulation Journal*, **2018**, 82, 1892-1899	2.9	38
69	New insights into purine metabolism in metabolic diseases: role of xanthine oxidoreductase activity. *American Journal of Physiology - Endocrinology and Metabolism*, **2020**, 319, E827-E834	6	37
68	Angiotensin II receptor blockers decrease serum concentration of fatty acid-binding protein 4 in patients with hypertension. *Hypertension Research*, **2015**, 38, 252-9	4.7	35
67	Reduction of serum FABP4 level by sitagliptin, a DPP-4 inhibitor, in patients with type 2 diabetes mellitus. *Journal of Lipid Research*, **2015**, 56, 2372-80	6.3	33
66	Ectopic expression of fatty acid-binding protein 4 in the glomerulus is associated with proteinuria and renal dysfunction. *Nephron Clinical Practice*, **2014**, 128, 345-51		32
65	Reduction of circulating FABP4 level by treatment with omega-3 fatty acid ethyl esters. *Lipids in Health and Disease*, **2016**, 15, 5	4.4	31

64	Circulating resistin levels in essential hypertension. *Clinical Endocrinology*, **2003**, 59, 507-10	3.4	30
63	Possible impairment of transcardiac utilization of adiponectin in patients with type 2 diabetes. *Diabetes Care*, **2004**, 27, 2217-21	14.6	28
62	Ectopic Fatty Acid-Binding Protein 4 Expression in the Vascular Endothelium is Involved in Neointima Formation After Vascular Injury. *Journal of the American Heart Association*, **2017**, 6,	6	24
61	Transcriptome and Metabolome Analyses in Exogenous FABP4- and FABP5-Treated Adipose-Derived Stem Cells. *PLoS ONE*, **2016**, 11, e0167825	3.7	24
60	Differential Phenotypes in Perivascular Adipose Tissue Surrounding the Internal Thoracic Artery and Diseased Coronary Artery. *Journal of the American Heart Association*, **2019**, 8, e011147	6	24
59	Urinary excretion of fatty acid-binding protein 4 is associated with albuminuria and renal dysfunction. *PLoS ONE*, **2014**, 9, e115429	3.7	23
58	Tissue-specific impairment of insulin signaling in vasculature and skeletal muscle of fructose-fed rats. *Hypertension Research*, **2003**, 26, 169-76	4.7	23
57	Deterioration of renal function by chronic heart failure is associated with congestion and oxidative stress in the tubulointerstitium. *Internal Medicine*, **2011**, 50, 2877-87	1.1	22
56	The effect of tumor necrosis factor-alpha on tissue specificity and selectivity to insulin signaling. *Hypertension Research*, **2003**, 26, 389-96	4.7	22
55	Reduction of endoplasmic reticulum stress inhibits neointima formation after vascular injury. *Scientific Reports*, **2014**, 4, 6943	4.9	21
54	Sonoclot coagulation analysis: new bedside monitoring for determination of the appropriate heparin dose during haemodialysis. *Nephrology Dialysis Transplantation*, **2002**, 17, 1457-62	4.3	21
53	Circulating Fatty Acid-Binding Protein 4 Concentration Predicts the Progression of Carotid Atherosclerosis in a General Population Without Medication. *Circulation Journal*, **2018**, 82, 1121-1129	2.9	20
52	Accuracy of flash glucose monitoring in insulin-treated patients with type 2 diabetes. *Journal of Diabetes Investigation*, **2019**, 10, 846-850	3.9	20
51	Differential regulation of hypoxanthine and xanthine by obesity in a general population. *Journal of Diabetes Investigation*, **2020**, 11, 878-887	3.9	19
50	Independent links between plasma xanthine oxidoreductase activity and levels of adipokines. *Journal of Diabetes Investigation*, **2019**, 10, 1059-1067	3.9	19
49	Possible Increase in Serum FABP4 Level Despite Adiposity Reduction by Canagliflozin, an SGLT2 Inhibitor. *PLoS ONE*, **2016**, 11, e0154482	3.7	18
48	Independent Link Between Levels of Proprotein Convertase Subtilisin/Kexin Type 9 and FABP4 in a General Population Without Medication. *American Journal of Cardiology*, **2016**, 118, 198-203	3	17
47	Low adiponectin level in young normotensive men with a family history of essential hypertension. *Hypertension Research*, **2005**, 28, 141-6	4.7	17

46	Annual change in plasma xanthine oxidoreductase activity is associated with changes in liver enzymes and body weight. *Endocrine Journal*, **2019**, 66, 777-786	2.9	16
45	Serum FABP5 concentration is a potential biomarker for residual risk of atherosclerosis in relation to cholesterol efflux from macrophages. *Scientific Reports*, **2017**, 7, 217	4.9	13
44	Serum ratio of heart-type fatty acid-binding protein to myoglobin. A novel marker of cardiac damage and volume overload in hemodialysis patients. *Nephron Clinical Practice*, **2003**, 93, C69-74		13
43	U-shaped relationship between serum uric acid level and decline in renal function during a 10-year period in female subjects: BOREAS-CKD2. *Hypertension Research*, **2021**, 44, 107-116	4.7	13
42	Genotype in human CD36 deficiency and diabetes mellitus. *Diabetic Medicine*, **2004**, 21, 952-3	3.5	12
41	Treatment with anagliptin, a DPP-4 inhibitor, decreases FABP4 concentration in patients with type 2 diabetes mellitus at a high risk for cardiovascular disease who are receiving statin therapy. *Cardiovascular Diabetology*, **2020**, 19, 89	8.7	11
40	Unexpected high plasma xanthine oxidoreductase activity in female subjects with low levels of uric acid. *Endocrine Journal*, **2018**, 65, 1083-1092	2.9	10
39	Angiotensin II receptor activation in youth triggers persistent insulin resistance and hypertension--a legacy effect?. *Hypertension Research*, **2012**, 35, 334-40	4.7	9
38	Right bundle branch block and coved-type ST-segment elevation mimicked by acute cholecystitis. *Circulation Journal*, **2003**, 67, 802-4	2.9	9
37	Low urine pH predicts new onset of diabetes mellitus during a 10-year period in men: BOREAS-DM1 study. *Journal of Diabetes Investigation*, **2020**, 11, 1490-1497	3.9	8
36	Utility of serum ratio of heart-type fatty acid-binding protein to myoglobin for cardiac damage regardless of renal dysfunction. *Circulation Journal*, **2004**, 68, 656-9	2.9	8
35	Acute renal failure likely due to acute nephritic syndrome associated with typhoid fever. *Internal Medicine*, **2005**, 44, 1074-7	1.1	8
34	Antiatherosclerotic Phenotype of Perivascular Adipose Tissue Surrounding the Saphenous Vein in Coronary Artery Bypass Grafting. *Journal of the American Heart Association*, **2021**, 10, e018905	6	5
33	A Case of Crescentic Glomerulonephritis Complicated with Hypocomplementemic Urticarial Vasculitis Syndrome and ANCA-Associated Vasculitis. *Case Reports in Nephrology and Dialysis*, **2017**, 7, 144-153	1.3	4
32	Elevated circulating FABP4 concentration predicts cardiovascular death in a general population: a 12-year prospective study. *Scientific Reports*, **2021**, 11, 4008	4.9	4
31	Significance of urinary fatty acid-binding protein 4 level as a possible biomarker for the identification of minimal change disease in patents with nephrotic-range proteinuria. *BMC Nephrology*, **2020**, 21, 459	2.7	3
30	Impact of use of angiotensin II receptor blocker on all-cause mortality in hemodialysis patients: prospective cohort study using a propensity-score analysis. *Clinical and Experimental Nephrology*, **2016**, 20, 469-78	2.5	3
29	Myocardial iodine-123-metaiodobenzylguanidine (123I-MIBG) imaging in Brugada syndrome. *Circulation*, **2002**, 106, e59-60; author reply e59-60	16.7	3

28	STAT3 Is the Master Regulator for the Forming of 3D Spheroids of 3T3-L1 Preadipocytes.. *Cells*, **2022**, 11,	7.9	3
27	Fatty liver index is independently associated with deterioration of renal function during a 10-year period in healthy subjects. *Scientific Reports*, **2021**, 11, 8606	4.9	3
26	Screening of the Drug-Induced Effects of Prostaglandin EP2 and FP Agonists on 3D Cultures of Dexamethasone-Treated Human Trabecular Meshwork Cells. *Biomedicines*, **2021**, 9,	4.8	3
25	Independent and Distinct Associations of FABP4 and FABP5 With Metabolic Parameters in Type 2 Diabetes Mellitus. *Frontiers in Endocrinology*, **2020**, 11, 575557	5.7	2
24	High level of fatty liver index predicts new onset of diabetes mellitus during a 10-year period in healthy subjects. *Scientific Reports*, **2021**, 11, 12830	4.9	2
23	A Resuscitated Case of Acute Myocardial Infarction with both Familial Hypercholesterolemia Phenotype Caused by Possibly Oligogenic Variants of the PCSK9 and ABCG5 Genes and Type I CD36 Deficiency. *Journal of Atherosclerosis and Thrombosis*, **2021**,	4	2
22	Hypoxia Differently Affects TGF-β-Induced Epithelial Mesenchymal Transitions in the 2D and 3D Culture of the Human Retinal Pigment Epithelium Cells. *International Journal of Molecular Sciences*, **2022**, 23, 5473	6.3	2
21	Impact of the Number of Anti-Thrombosis Agents in Hemodialysis Patients: BOREAS-HD2 Study. *Kidney and Blood Pressure Research*, **2017**, 42, 553-564	3.1	1
20	Histopathology of the pancreas in fulminant type 1 diabetes after 23-year follow-up: a case report. *Pathology International*, **2012**, 62, 827-9	1.8	1
19	Autotaxin May Have Lysophosphatidic Acid-Unrelated Effects on Three-Dimension (3D) Cultured Human Trabecular Meshwork (HTM) Cells. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	1
18	Fatty Acid-Binding Proteins, a Family of Lipid Chaperones **2017**, 1-16		1
17	Involvement of necroptosis in contrast-induced nephropathy in a rat CKD model. *Clinical and Experimental Nephrology*, **2021**, 25, 708-717	2.5	1
16	Independent association of plasma xanthine oxidoreductase activity with hypertension in nondiabetic subjects not using medication. *Hypertension Research*, **2021**, 44, 1213-1220	4.7	1
15	Detection of significantly high vitreous concentrations of fatty acid-binding protein 4 in patients with proliferative diabetic retinopathy. *Scientific Reports*, **2021**, 11, 12382	4.9	1
14	Elevated Fatty Liver Index Is Independently Associated With New Onset of Hypertension During a 10-Year Period in Both Male and Female Subjects. *Journal of the American Heart Association*, **2021**, 10, e021430	6	1
13	Prediction of new onset of diabetes mellitus during a 10-year period by using a combination of levels of alanine aminotransferase and γ-glutamyl transferase. *Endocrine Journal*, **2021**,	2.9	1
12	Saphenous vein harvesting: Meta-analysis, metaflammation, and adipose tissue remodeling. *Journal of Cardiac Surgery*, **2021**, 36, 4832-4833	1.3	1
11	Distinct Regulation of U-ACE2 and P-ACE2 (Urinary and Plasma Angiotensin-Converting Enzyme 2) in a Japanese General Population. *Hypertension*, **2021**, 78, 1138-1149	8.5	1

10	Fatty acid-binding protein 4 is an independent factor in the pathogenesis of retinal vein occlusion. *PLoS ONE*, **2021**, 16, e0245763	3.7	1
9	ROCK 1 and 2 affect the spatial architecture of 3D spheroids derived from human corneal stromal fibroblasts in different manners.. *Scientific Reports*, **2022**, 12, 7419	4.9	1
8	Modulation of the Physical Properties of 3D Spheroids Derived from Human Scleral Stroma Fibroblasts (HSSFs) with Different Axial Lengths Obtained from Surgical Patients. *Current Issues in Molecular Biology*, **2021**, 43, 1715-1725	2.9	0
7	Seasonal variation of serum 25-hydroxyvitamin D level in hemodialysis patients in the northernmost island of Japan. *Clinical and Experimental Nephrology*, **2021**, 25, 1360-1366	2.5	0
6	Independent Association of Fatty Liver Index With Left Ventricular Diastolic Dysfunction in Subjects Without Medication. *American Journal of Cardiology*, **2021**, 158, 139-146	3	0
5	Remission of Membranous Nephropathy after Surgical Resection of Benign Cerebellar Meningioma. *The Journal of the Japanese Society of Internal Medicine*, **2018**, 107, 1102-1107	0	
4	Reply to the comment of Hirota et al. on "Accuracy of flash glucose monitoring in insulin-treated patients with type 2 diabetes". *Journal of Diabetes Investigation*, **2020**, 11, 256	3.9	
3	Fatty Acid-Binding Proteins, a Family of Lipid Chaperones **2019**, 691-706		
2	Impact of atrial fibrillation on the risk of ischemic stroke in patients on hemodialysis: BOREAS-HD3 Study. *Clinical and Experimental Nephrology*, **2021**, 25, 297-304	2.5	
1	Reply to the comments of Naharci et al. on "Circulating level of fatty acid-binding protein 4 is an independent predictor of metabolic dysfunction-associated fatty liver disease in middle-aged and elderly individuals".. *Journal of Diabetes Investigation*, **2022**, 13, 928-929	3.9	