Attila Tth

List of Publications by Citations

106 papers	3,102 citations	31 h-index	53 g-index
116 ext. papers	3,505 ext. citations	5.1 avg, IF	4.51 L-index

#	Paper	IF	Citations
106	Expression and distribution of vanilloid receptor 1 (TRPV1) in the adult rat brain. *Molecular Brain Research*, **2005**, 135, 162-8		334
105	Molecular determinants of vanilloid sensitivity in TRPV1. *Journal of Biological Chemistry*, **2004**, 279, 20283-95	5.4	283
104	Characterization of the interaction of ingenol 3-angelate with protein kinase C. *Cancer Research*, **2004**, 64, 3243-55	10.1	157
103	Type 2 diabetic mice have increased arteriolar tone and blood pressure: enhanced release of COX-2-derived constrictor prostaglandins. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2005**, 25, 1610-6	9.4	128
102	N-(3-acyloxy-2-benzylpropyl)-NR[4-(methylsulfonylamino)benzyl]thiourea analogues: novel potent and high affinity antagonists and partial antagonists of the vanilloid receptor. *Journal of Medicinal Chemistry*, **2003**, 46, 3116-26	8.3	103
101	Tissue-specific regulation of microvascular diameter: opposite functional roles of neuronal and smooth muscle located vanilloid receptor-1. *Molecular Pharmacology*, **2008**, 73, 1405-12	4.3	99
100	High affinity antagonists of the vanilloid receptor. *Molecular Pharmacology*, **2002**, 62, 947-56	4.3	89
99	Anandamide and the vanilloid receptor (TRPV1). *Vitamins and Hormones*, **2009**, 81, 389-419	2.5	82
98	High-fat diet-induced reduction in nitric oxide-dependent arteriolar dilation in rats: role of xanthine oxidase-derived superoxide anion. *American Journal of Physiology - Heart and Circulatory Physiology*, **2006**, 291, H2107-15	5.2	78
97	Peroxynitrite-induced alpha-actinin nitration and contractile alterations in isolated human myocardial cells. *Cardiovascular Research*, **2005**, 67, 225-33	9.9	69
96	Study of the subunit interactions in myosin phosphatase by surface plasmon resonance. *FEBS Journal*, **2000**, 267, 1687-97		63
95	New perspectives in the renin-angiotensin-aldosterone system (RAAS) IV: circulating ACE2 as a biomarker of systolic dysfunction in human hypertension and heart failure. *PLoS ONE*, **2014**, 9, e87845	3.7	60
94	Phosphorylation-dependent desensitization by anandamide of vanilloid receptor-1 (TRPV1) function in rat skeletal muscle arterioles and in Chinese hamster ovary cells expressing TRPV1. *Molecular Pharmacology*, **2006**, 69, 1015-23	4.3	58
93	Interaction between protein kinase Cmu and the vanilloid receptor type 1. *Journal of Biological Chemistry*, **2004**, 279, 53674-82	5.4	58
92	Treatment with the poly(ADP-ribose) polymerase inhibitor PJ-34 improves cerebromicrovascular endothelial function, neurovascular coupling responses and cognitive performance in aged mice, supporting the NAD+ depletion hypothesis of neurovascular aging. *GeroScience*, **2019**, 41, 533-542	8.9	56
91	Circulating ACE2 activity correlates with cardiovascular disease development. *JRAAS - Journal of the Renin-Angiotensin-Aldosterone System*, **2016**, 17,	3	56
90	The novel cardiac myosin activator omecamtiv mecarbil increases the calcium sensitivity of force production in isolated cardiomyocytes and skeletal muscle fibres of the rat. *British Journal of Pharmacology*, **2015**, 172, 4506-4518	8.6	54

89	Poly(ADP-ribose) polymerase-2 depletion reduces doxorubicin-induced damage through SIRT1 induction. *Cardiovascular Research*, **2011**, 92, 430-8	9.9	47
88	Vanilloid receptor-1 (TRPV1) expression and function in the vasculature of the rat. *Journal of Histochemistry and Cytochemistry*, **2014**, 62, 129-44	3.4	46
87	Arachidonyl dopamine as a ligand for the vanilloid receptor VR1 of the rat. *Life Sciences*, **2003**, 73, 487-98	6.8	45
86	Calpain-1-sensitive myofibrillar proteins of the human myocardium. *Molecular and Cellular Biochemistry*, **2005**, 278, 1-8	4.2	43
85	Oxidation of myofilament protein sulfhydryl groups reduces the contractile force and its Ca2+ sensitivity in human cardiomyocytes. *Antioxidants and Redox Signaling*, **2008**, 10, 1175-84	8.4	41
84	Different vanilloid agonists cause different patterns of calcium response in CHO cells heterologously expressing rat TRPV1. *Life Sciences*, **2005**, 76, 2921-32	6.8	40
83	PKCdelta associates with and is involved in the phosphorylation of RasGRP3 in response to phorbol esters. *Molecular Pharmacology*, **2004**, 66, 76-84	4.3	40
82	A dramatic rise in serum ACE2 activity in a critically ill COVID-19 patient. *International Journal of Infectious Diseases*, **2021**, 103, 412-414	10.5	40
81	Activation of the poly(ADP-ribose) polymerase pathway in human heart failure. *Molecular Medicine*, **2006**, 12, 143-52	6.2	39
80	Thapsigargin binds to and inhibits the cloned vanilloid receptor-1. *Biochemical and Biophysical Research Communications*, **2002**, 293, 777-82	3.4	39
79	High-affinity partial agonists of the vanilloid receptor. *Molecular Pharmacology*, **2003**, 64, 325-33	4.3	36
78	Design of a high-affinity competitive antagonist of the vanilloid receptor selective for the calcium entry-linked receptor population. *Molecular Pharmacology*, **2004**, 65, 282-91	4.3	34
77	Phosphorylation of MYPT1 by protein kinase C attenuates interaction with PP1 catalytic subunit and the 20 kDa light chain of myosin. *FEBS Letters*, **2000**, 484, 113-7	3.8	33
76	Glycogen phosphorylase inhibition improves beta cell function. *British Journal of Pharmacology*, **2018**, 175, 301-319	8.6	32
75	N-[4-(methylsulfonylamino)benzyl]thiourea analogues as vanilloid receptor antagonists: analysis of structure-activity relationships for the "C-Region". *Bioorganic and Medicinal Chemistry*, **2004**, 12, 371-85	3.4	31
74	Structure-activity relationships of vanilloid receptor agonists for arteriolar TRPV1. *British Journal of Pharmacology*, **2012**, 165, 1801-1812	8.6	30
73	Kinetics of penetration influence the apparent potency of vanilloids on TRPV1. *Molecular Pharmacology*, **2006**, 69, 1166-73	4.3	30
72	Stereospecific high-affinity TRPV1 antagonists: chiral N-(2-benzyl-3-pivaloyloxypropyl) 2-[4-(methylsulfonylamino)phenyl]propionamide analogues. *Journal of Medicinal Chemistry*, **2008**, 51, 57-67	8.3	28

71	AMP-Activated Kinase (AMPK) Activation by AICAR in Human White Adipocytes Derived from Pericardial White Adipose Tissue Stem Cells Induces a Partial Beige-Like Phenotype. *PLoS ONE*, **2016**, 11, e0157644	3.7	25
70	Frequency-dependent effects of omecamtiv mecarbil on cell shortening of isolated canine ventricular cardiomyocytes. *Naunyn-Schmiedebergs Archives of Pharmacology*, **2017**, 390, 1239-1246	3.4	24
69	Alpha-substituted N-(4-tert-butylbenzyl)-NR[4-(methylsulfonylamino)benzyl]thiourea analogues as potent and stereospecific TRPV1 antagonists. *Bioorganic and Medicinal Chemistry*, **2007**, 15, 6043-53	3.4	24
68	New perspectives in the renin-angiotensin-aldosterone system (RAAS) II: albumin suppresses angiotensin converting enzyme (ACE) activity in human. *PLoS ONE*, **2014**, 9, e87844	3.7	24
67	Cerebral venous congestion promotes blood-brain barrier disruption and neuroinflammation, impairing cognitive function in mice. *GeroScience*, **2019**, 41, 575-589	8.9	22
66	Beneficial effects of SR33805 in failing myocardium. *Cardiovascular Research*, **2011**, 91, 412-9	9.9	20
65	Calcineurin regulates endothelial barrier function by interaction with and dephosphorylation of myosin phosphatase. *Cardiovascular Research*, **2012**, 96, 494-503	9.9	18
64	Renin overexpression leads to increased titin-based stiffness contributing to diastolic dysfunction in hypertensive mRen2 rats. *American Journal of Physiology - Heart and Circulatory Physiology*, **2016**, 310, H1671-82	5.2	18
63	Myofilament protein carbonylation contributes to the contractile dysfunction in the infarcted LV region of mouse hearts. *Cardiovascular Research*, **2014**, 101, 108-19	9.9	17
62	Analysis of structure-activity relationships for the RA-regionRof N-(4-t-butylbenzyl)-NR[4-(methylsulfonylamino)benzyl]thiourea analogues as TRPV1 antagonists. *Bioorganic and Medicinal Chemistry Letters*, **2005**, 15, 4136-42	2.9	17
61	New perspectives in the renin-angiotensin-aldosterone system (RAAS) I: endogenous angiotensin converting enzyme (ACE) inhibition. *PLoS ONE*, **2014**, 9, e87843	3.7	16
60	Differential modulation of agonist and antagonist structure activity relations for rat TRPV1 by cyclosporin A and other protein phosphatase inhibitors. *Naunyn-Schmiedebergs Archives of Pharmacology*, **2008**, 377, 149-57	3.4	14
59	Analysis of structure-activity relationships with the N-(3-acyloxy-2-benzylpropyl)-NR[4-(methylsulfonylamino)benzyl]thiourea template for vanilloid receptor 1 antagonism. *Bioorganic and Medicinal Chemistry*, **2004**, 12, 3411-20	3.4	14
58	Different desensitization patterns for sensory and vascular TRPV1 populations in the rat: expression, localization and functional consequences. *PLoS ONE*, **2013**, 8, e78184	3.7	14
57	New perspectives in the renin-angiotensin-aldosterone system (RAAS) III: endogenous inhibition of angiotensin converting enzyme (ACE) provides protection against cardiovascular diseases. *PLoS ONE*, **2014**, 9, e93719	3.7	13
56	TRPV1 expressed throughout the arterial circulation regulates vasoconstriction and blood pressure. *Journal of Physiology*, **2020**, 598, 5639-5659	3.9	13
55	The Drug Candidate BGP-15 Delays the Onset of Diastolic Dysfunction in the Goto-Kakizaki Rat Model of Diabetic Cardiomyopathy. *Molecules*, **2019**, 24,	4.8	12
54	Heme-induced contractile dysfunction in human cardiomyocytes caused by oxidant damage to thick filament proteins. *Free Radical Biology and Medicine*, **2015**, 89, 248-62	7.8	12

53	Tenascin-C aggravates ventricular dilatation and angiotensin-converting enzyme activity after myocardial infarction in mice. *ESC Heart Failure*, **2020**, 7, 2113-2122	3.7	12
52	Analysis of structure-activity relationships for the B-region of N-(3-acyloxy-2-benzylpropyl)-N'-[4-(methylsulfonylamino)benzyl]thiourea analogues as vanilloid receptor antagonists: discovery of an N-hydroxythiourea analogue with potent analgesic activity. *Bioorganic and Medicinal Chemistry Letters*, **2004**, 14, 2291-7	2.9	12
51	Combined application of angiotensin converting enzyme and chitotriosidase analysis improves the laboratory diagnosis of sarcoidosis. *Clinica Chimica Acta*, **2020**, 500, 155-162	6.2	12
50	Olaparib induces browning of in vitro cultures of human primary white adipocytes. *Biochemical Pharmacology*, **2019**, 167, 76-85	6	11
49	Protein kinase C contributes to the maintenance of contractile force in human ventricular cardiomyocytes. *Journal of Biological Chemistry*, **2009**, 284, 1031-9	5.4	11
48	Late-stage alterations in myofibrillar contractile function in a transgenic mouse model of dilated cardiomyopathy (Tgalphaq*44). *Journal of Molecular and Cellular Cardiology*, **2008**, 45, 363-72	5.8	11
47	Analysis of structure-activity relationships for the B-region of N-(4-t-butylbenzyl)-N'-[4-(methylsulfonylamino)benzyl]-thiourea analogues as TRPV1 antagonists. *Bioorganic and Medicinal Chemistry Letters*, **2005**, 15, 4143-50	2.9	11
46	Advantages of prophylactic versus conventionally scheduled heart failure therapy in an experimental model of doxorubicin-induced cardiomyopathy. *Journal of Translational Medicine*, **2019**, 17, 229	8.5	10
45	Single acute stress-induced progesterone and ovariectomy alter cardiomyocyte contractile function in female rats. *Croatian Medical Journal*, **2014**, 55, 239-49	1.6	9
44	Vascular metabolism of anandamide to arachidonic acid affects myogenic constriction in response to intraluminal pressure elevation. *Life Sciences*, **2012**, 90, 407-15	6.8	9
43	Structure-activity relationships of simplified resiniferatoxin analogues with potent VR1 agonism elucidates an active conformation of RTX for VR1 binding. *Bioorganic and Medicinal Chemistry*, **2004**, 12, 1055-69	3.4	9
42	Circulating ACE2 activity predicts mortality and disease severity in hospitalized COVID-19 patients. *International Journal of Infectious Diseases*, **2021**,	10.5	9
41	Level of the SARS-CoV-2 receptor ACE2 activity is highly elevated in old-aged patients with aortic stenosis: implications for ACE2 as a biomarker for the severity of COVID-19. *GeroScience*, **2021**, 43, 19-29	8.9	9
40	Titin isoforms are increasingly protected against oxidative modifications in developing rat cardiomyocytes. *Free Radical Biology and Medicine*, **2017**, 113, 224-235	7.8	8
39	Non-vanillyl resiniferatoxin analogues as potent and metabolically stable transient receptor potential vanilloid 1 agonists. *Bioorganic and Medicinal Chemistry*, **2009**, 17, 690-8	3.4	8
38	Mistyping of angiotensinogen M235T alleles. *Hypertension Research*, **2006**, 29, 197-201	4.7	8
37	Calpain-1-dependent degradation of troponin I mutants found in familial hypertrophic cardiomyopathy. *Molecular and Cellular Biochemistry*, **2003**, 251, 83-88	4.2	8
36	Myeloperoxidase impairs the contractile function in isolated human cardiomyocytes. *Free Radical Biology and Medicine*, **2015**, 84, 116-127	7.8	7

35	Optimized angiotensin-converting enzyme activity assay for the accurate diagnosis of sarcoidosis. *Clinical Chemistry and Laboratory Medicine*, **2018**, 56, 1117-1125	5.9	7
34	Cell-to-cell variability in troponin I phosphorylation in a porcine model of pacing-induced heart failure. *Basic Research in Cardiology*, **2012**, 107, 244	11.8	7
33	SEA0400 fails to alter the magnitude of intracellular Ca2+ transients and contractions in Langendorff-perfused guinea pig heart. *Naunyn-Schmiedeberg's Archives of Pharmacology*, **2008**, 378, 65-71	3.4	7
32	Upregulation of Myocardial and Vascular Phosphodiesterase 9A in A Model of Atherosclerotic Cardiovascular Disease. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	6
31	Insertion/deletion polymorphism of the angiotensin-converting enzyme predicts left ventricular hypertrophy after renal transplantation. *Transplantation Proceedings*, **2011**, 43, 1259-60	1.1	5
30	Changes in the SARS-CoV-2 cellular receptor ACE2 levels in cardiovascular patients: a potential biomarker for the stratification of COVID-19 patients. *GeroScience*, **2021**, 43, 2289-2304	8.9	5
29	Calpain-1-dependent degradation of troponin I mutants found in familial hypertrophic cardiomyopathy. *Molecular and Cellular Biochemistry*, **2003**, 251, 83-8	4.2	5
28	Radioanalytical methods for the measurement of melanin concentrating hormone (MCH) and detection its receptor in rat tissues. *Journal of Radioanalytical and Nuclear Chemistry*, **2016**, 310, 1325-1333	1.5	4
27	Insertion/Deletion polymorphism of Angiotensin-converting enzyme as a risk factor for chronic allograft nephropathy. *Transplantation Proceedings*, **2010**, 42, 2304-8	1.1	4
26	Conformationally constrained analogues of NR(4-tert-butylbenzyl)-N-(4-methylsulfonylaminobenzyl)thiourea as TRPV1 antagonists. *European Journal of Medicinal Chemistry*, **2009**, 44, 322-31	6.8	4
25	Production of Liquid Milk Protein Concentrate with Antioxidant Capacity, Angiotensin Converting Enzyme Inhibitory Activity, Antibacterial Activity, and Hypoallergenic Property by Membrane Filtration and Enzymatic Modification of Proteins. *Processes*, **2020**, 8, 871	2.9	4
24	Hemolyzed Blood Elicits a Calcium Antagonist and High CO Reversible Constriction via Elevation of [Ca] in Isolated Cerebral Arteries. *Journal of Neurotrauma*, **2017**, 34, 529-534	5.4	3
23	Myosin heavy chain and cardiac troponin T damage is associated with impaired myofibrillar ATPase activity contributing to sarcomeric dysfunction in Ca-paradox rat hearts. *Molecular and Cellular Biochemistry*, **2017**, 430, 57-68	4.2	3
22	Myeloperoxidase evokes substantial vasomotor responses in isolated skeletal muscle arterioles of the rat. *Acta Physiologica*, **2015**, 214, 109-23	5.6	3
21	2-(4-Methylsulfonylaminophenyl) propanamide TRPV1 antagonists: Structure-activity relationships in the B and C-regions. *Bioorganic and Medicinal Chemistry*, **2012**, 20, 1310-8	3.4	3
20	Thrittene radioimmunoassay: description and application of a novel method. *Journal of Radioanalytical and Nuclear Chemistry*, **2012**, 292, 113-118	1.5	3
19	The peroxynitrite evoked contractile depression can be partially reversed by antioxidants in human cardiomyocytes. *Journal of Cellular and Molecular Medicine*, **2009**, 13, 2200-2209	5.6	3
18	The Beta-1-Receptor Blocker Nebivolol Elicits Dilation of Cerebral Arteries by Reducing Smooth Muscle [Ca2+]i. *PLoS ONE*, **2016**, 11, e0164010	3.7	3

17	ORM-3819 promotes cardiac contractility through Ca(2+) sensitization in combination with selective PDE III inhibition, a novel approach to inotropy. *European Journal of Pharmacology*, **2016**, 775, 120-9	5.3	3
16	Chitotriosidase gene polymorphisms and mutations limit the determination of chitotriosidase expression in sarcoidosis. *Clinica Chimica Acta*, **2021**, 513, 50-56	6.2	3
15	Human Tissue Angiotensin Converting Enzyme (ACE) Activity Is Regulated by Genetic Polymorphisms, Posttranslational Modifications, Endogenous Inhibitors and Secretion in the Serum, Lungs and Heart. *Cells*, **2021**, 10,	7.9	3
14	Prophylactic, single-drug cardioprotection in a comparative, experimental study of doxorubicin-induced cardiomyopathy. *Journal of Translational Medicine*, **2020**, 18, 470	8.5	2
13	Long Term Osmotic Mini Pump Treatment with Alpha-MSH Improves Myocardial Function in Zucker Diabetic Fatty Rats. *Molecules*, **2017**, 22,	4.8	2
12	Heteroduplex analysis using flow cytometric microbead assays to detect deletions, insertions, and single-strand lesions. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2008**, 73, 238-45	4.6	2
11	Hydrogen peroxide elicits constriction of skeletal muscle arterioles by activating the arachidonic acid pathway. *PLoS ONE*, **2014**, 9, e103858	3.7	2
10	Heme-Induced Oxidation of Cysteine Groups of Myofilament Proteins Leads to Contractile Dysfunction of Permeabilized Human Skeletal Muscle Fibres. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	2
9	Glycogen phosphorylase inhibitor, 2,3-bis[(2E)-3-(4-hydroxyphenyl)prop-2-enamido] butanedioic acid (BF142), improves baseline insulin secretion of MIN6 insulinoma cells. *PLoS ONE*, **2020**, 15, e0236081	3.7	2
8	Differences in angiotensin convertase enzyme (ACE) activity and expression may contribute to shorter event free period after coronary artery bypass graft surgery. *Cardiovascular Therapeutics*, **2012**, 30, 136-44	3.3	1
7	TRPV1 in arteries enables a rapid myogenic tone.. *Journal of Physiology*, **2022**,	3.9	1
6	Cerebral venous congestion exacerbates cerebral microhemorrhages in mice.. *GeroScience*, **2022**, 1	8.9	1
5	Omecamtiv mecarbil evokes diastolic dysfunction and leads to periodic electromechanical alternans. *Basic Research in Cardiology*, **2021**, 116, 24	11.8	1
4	TRPV1 in arteries enables a rapid myogenic tone		1
3	Bioactive Peptides from Liquid Milk Protein Concentrate by Sequential Tryptic and Microbial Hydrolysis. *Processes*, **2021**, 9, 1688	2.9	1
2	High intraluminal pressure reduces tachyphylaxis to angiotensin II in isolated arterioles. *FASEB Journal*, **2006**, 20, A306	0.9	
1	Pathways mediating Ca2+ senzitization in basilar artery of the rat: feature and mechanisms. *FASEB Journal*, **2011**, 25, 1024.25	0.9	