

Alexei Y Bagrov

List of Publications by Year in descending order

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104
papers

4,855
citations

70961

41
h-index

98622

67
g-index

104
all docs

104
docs citations

104
times ranked

2260
citing authors

#	ARTICLE	IF	CITATIONS
1	Endogenous Cardiotonic Steroids: Physiology, Pharmacology, and Novel Therapeutic Targets. <i>Pharmacological Reviews</i> , 2009, 61, 9-38.	7.1	475
2	Central Role for the Cardiotonic Steroid Marinobufagenin in the Pathogenesis of Experimental Uremic Cardiomyopathy. <i>Hypertension</i> , 2006, 47, 488-495.	1.3	246
3	Circulating bufodienolide and cardenolide sodium pump inhibitors in preeclampsia. <i>Journal of Hypertension</i> , 1999, 17, 1179-1187.	0.3	162
4	Characterization of a Urinary Bufodienolide Na ⁺ ,K ⁺ -ATPase Inhibitor in Patients After Acute Myocardial Infarction. <i>Hypertension</i> , 1998, 31, 1097-1103.	1.3	157
5	Endogenous Ligand of $\hat{\pm}$ 1 Sodium Pump, Marinobufagenin, Is a Novel Mediator of Sodium Chloride-Dependent Hypertension. <i>Circulation</i> , 2002, 105, 1122-1127.	1.6	155
6	Marinobufagenin Stimulates Fibroblast Collagen Production and Causes Fibrosis in Experimental Uremic Cardiomyopathy. <i>Hypertension</i> , 2007, 49, 215-224.	1.3	145
7	Endogenous Na,K Pump Ligands Are Differentially Regulated During Acute NaCl Loading of Dahl Rats. <i>Circulation</i> , 2000, 102, 3009-3014.	1.6	120
8	Endogenous digitalis: pathophysiologic roles and therapeutic applications. <i>Nature Clinical Practice Nephrology</i> , 2008, 4, 378-392.	2.0	103
9	Marinobufagenin, an Endogenous $\hat{\pm}$ -1 Sodium Pump Ligand, in Hypertensive Dahl Salt-Sensitive Rats. <i>Hypertension</i> , 2001, 37, 462-466.	1.3	102
10	Partial nephrectomy as a model for uremic cardiomyopathy in the mouse. <i>American Journal of Physiology - Renal Physiology</i> , 2008, 294, F450-F454.	1.3	96
11	Inhibition of Na/K ATPase From Rat Aorta by Two Na/K Pump Inhibitors, Ouabain and Marinobufagenin Evidence of Interaction With Different $\hat{\pm}$ -Subunit Isoforms. <i>American Journal of Hypertension</i> , 1997, 10, 929-935.	1.0	87
12	Marinobufagenin induces increases in procollagen expression in a process involving protein kinase C and Fli-1: implications for uremic cardiomyopathy. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, F1219-F1226.	1.3	84
13	Spironolactone Attenuates Experimental Uremic Cardiomyopathy by Antagonizing Marinobufagenin. <i>Hypertension</i> , 2009, 54, 1313-1320.	1.3	84
14	Endogenous Marinobufagenin-like Immunoreactive Factor and Na ⁺ ,K ⁺ ATPase Inhibition During Voluntary Hypoventilation. <i>Hypertension</i> , 1995, 26, 781-788.	1.3	84
15	Monoclonal antibody against marinobufagenin reverses cardiac fibrosis in rats with chronic renal failure. <i>American Journal of Hypertension</i> , 2012, 25, 690-696.	1.0	82
16	Involvement of Marinobufagenin in a Rat Model of Human Preeclampsia. <i>American Journal of Nephrology</i> , 2005, 25, 520-528.	1.4	81
17	Antibody to marinobufagenin lowers blood pressure in pregnant rats on a high NaCl intake. <i>Journal of Hypertension</i> , 2005, 23, 835-842.	0.3	79
18	Brain ouabain stimulates peripheral marinobufagenin via angiotensin II signalling in NaCl-loaded Dahl-S rats. <i>Journal of Hypertension</i> , 2005, 23, 1515-1523.	0.3	79

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19	Monoclonal antibody to an endogenous bufadienolide, marinobufagenin, reverses preeclampsia-induced Na/K-ATPase inhibition and lowers blood pressure in NaCl-sensitive hypertension. <i>Journal of Hypertension</i> , 2008, 26, 2414-2425.	0.3	73
20	Effects of two endogenous Na ⁺ ,K ⁺ -ATPase inhibitors, marinobufagenin and ouabain, on isolated rat aorta. <i>European Journal of Pharmacology</i> , 1995, 274, 151-158.	1.7	72
21	Salt loading induces redistribution of the plasmalemmal Na/K-ATPase in proximal tubule cells. <i>Kidney International</i> , 2005, 67, 1868-1877.	2.6	69
22	Endogenous cardiotonic steroids and salt-sensitive hypertension. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2010, 1802, 1230-1236.	1.8	68
23	Endogenous cardiotonic steroids in chronic renal failure. <i>Nephrology Dialysis Transplantation</i> , 2011, 26, 2912-2919.	0.4	68
24	Mammalian Bufadienolide Is Synthesized From Cholesterol in the Adrenal Cortex by a Pathway That Is Independent of Cholesterol Side-Chain Cleavage. <i>Hypertension</i> , 2000, 36, 442-448.	1.3	67
25	Marinobufagenin, an endogenous ligand of alpha-1 sodium pump, is a marker of congestive heart failure severity. <i>Journal of Hypertension</i> , 2002, 20, 1189-1194.	0.3	66
26	Effects of cardiac glycosides on sodium pump expression and function in LLC-PK1 and MDCK cells. <i>Kidney International</i> , 2002, 62, 2118-2125.	2.6	66
27	Effects of two putative endogenous digitalis-like factors, marinobufagenin and ouabain, on the Na ⁺ ,K ⁺ -pump in human mesenteric arteries. <i>Journal of Hypertension</i> , 1998, 16, 1953-1958.	0.3	65
28	Plasma marinobufagenin-like and ouabain-like immunoreactivity during saline volume expansion in anesthetized dogs. <i>Cardiovascular Research</i> , 1996, 31, 296-305.	1.8	64
29	Effect of green tea extract on cardiac hypertrophy following 5/6 nephrectomy in the rat. <i>Kidney International</i> , 2003, 63, 1785-1790.	2.6	64
30	Cardiotonic Steroids Differentially Affect Intracellular Na ⁺ and [Na ⁺] / [K ⁺] -independent Signaling in C7-MDCK Cells. <i>Journal of Biological Chemistry</i> , 2005, 280, 832-839.	1.6	64
31	Dietary Sodium Restriction and Association with Urinary Marinobufagenin, Blood Pressure, and Aortic Stiffness. <i>Clinical Journal of the American Society of Nephrology: CJASN</i> , 2013, 8, 1952-1959.	2.2	63
32	Digitalis-like and vasoconstrictor effects of endogenous digoxin-like factor(s) from the venom of <i>Bufo marinus</i> toad. <i>European Journal of Pharmacology</i> , 1993, 234, 165-172.	1.7	62
33	Cardiotonic Steroids Stimulate Glycogen Synthesis in Human Skeletal Muscle Cells via a Src- and ERK1/2-dependent Mechanism. <i>Journal of Biological Chemistry</i> , 2006, 281, 20085-20094.	1.6	61
34	The cardiotonic steroid hormone marinobufagenin induces renal fibrosis: implication of epithelial-to-mesenchymal transition. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, F922-F934.	1.3	61
35	Endogenous sodium pump inhibitors and age-associated increases in salt sensitivity of blood pressure in normotensives. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 294, R1248-R1254.	0.9	54
36	Elevated Plasma Marinobufagenin, An Endogenous Cardiotonic Steroid, Is Associated With Right Ventricular Dysfunction and Nitrate Stress in Heart Failure. <i>Circulation: Heart Failure</i> , 2015, 8, 1068-1076.	1.6	48

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37	Synthesis of an Endogenous Steroidal Na Pump Inhibitor Marinobufagenin, Implicated in Human Cardiovascular Diseases, Is Initiated by CYP27A1 via Bile Acid Pathway. <i>Circulation: Cardiovascular Genetics</i> , 2015, 8, 736-745.	5.1	44
38	Endogenous plasma Na,K-ATPase inhibitory activity and digoxin like immunoreactivity after acute myocardial infarction. <i>Cardiovascular Research</i> , 1991, 25, 371-377.	1.8	43
39	Endogenous marinobufagenin-like immunoreactive substance* A possible endogenous Na,K-ATPase inhibitor with vasoconstrictor activity. <i>American Journal of Hypertension</i> , 1996, 9, 982-990.	1.0	43
40	Endogenous Sodium Pump Inhibitors and Blood Pressure Regulation: An Update on Recent Progress. <i>Experimental Biology and Medicine</i> , 1998, 218, 156-167.	1.1	43
41	Effects of uremic serum on isolated cardiac myocyte calcium cycling and contractile function.. <i>Kidney International</i> , 2001, 60, 2367-2376.	2.6	43
42	In preeclampsia endogenous cardiotoxic steroids induce vascular fibrosis and impair relaxation of umbilical arteries. <i>Journal of Hypertension</i> , 2011, 29, 769-776.	0.3	39
43	Renal Ischemia Regulates Marinobufagenin Release in Humans. <i>Hypertension</i> , 2010, 56, 914-919.	1.3	38
44	High salt intake causes adverse fetal programming--vascular effects beyond blood pressure. <i>Nephrology Dialysis Transplantation</i> , 2012, 27, 3464-3476.	0.4	37
45	The Dietary Sodium-Blood Pressure Plot "Stiffens" Hypertension, 2004, 44, 22-24.	1.3	36
46	ANP Differentially Modulates Marinobufagenin-Induced Sodium Pump Inhibition in Kidney and Aorta. <i>Hypertension</i> , 2006, 48, 1160-1168.	1.3	34
47	Endogenous digitalis-like ligands and Na/K-ATPase inhibition in experimental diabetes mellitus. <i>Frontiers in Bioscience - Landmark</i> , 2005, 10, 2257.	3.0	33
48	Rapamycin Attenuates Cardiac Fibrosis in Experimental Uremic Cardiomyopathy by Reducing Marinobufagenin Levels and Inhibiting Downstream Pro-Fibrotic Signaling. <i>Journal of the American Heart Association</i> , 2016, 5, .	1.6	33
49	Coordinated shifts in Na/K-ATPase isoforms and their endogenous ligands during cardiac hypertrophy and failure in NaCl-sensitive hypertension. <i>Journal of Hypertension</i> , 2004, 22, 389-397.	0.3	32
50	Cardenolide and bufadienolide ligands of the sodium pump. how they work together in NaCl sensitive hypertension. <i>Frontiers in Bioscience - Landmark</i> , 2005, 10, 2250.	3.0	32
51	Intrahippocampal microinjection of an exquisitely low dose of ouabain mimics NaCl loading and stimulates a bufadienolide Na/K-ATPase inhibitor. <i>Journal of Hypertension</i> , 2007, 25, 1834-1844.	0.3	32
52	The Pressure of Aging. <i>Medical Clinics of North America</i> , 2017, 101, 81-101.	1.1	32
53	Interaction of NaCl and behavioral stress on endogenous sodium pump ligands in rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2001, 281, R352-R358.	0.9	31
54	Marinobufagenin enhances cardiac contractility in mice with ouabain-sensitive Na ⁺ /K ⁺ -ATPase. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009, 296, H1833-H1839.	1.5	31

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55	Endogenous Cardiotonic Steroids and Differential Patterns of Sodium Pump Inhibition in NaCl-Loaded Salt-Sensitive and Normotensive Rats. <i>American Journal of Hypertension</i> , 2009, 22, 559-563.	1.0	30
56	Marinobufagenin-induced vascular fibrosis is a likely target for mineralocorticoid antagonists. <i>Journal of Hypertension</i> , 2015, 33, 1602-1610.	0.3	29
57	Dietary Sodium Restriction Reduces Arterial Stiffness, Vascular TGF- β 2-Dependent Fibrosis and Marinobufagenin in Young Normotensive Rats. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3168.	1.8	27
58	Plasma Marinobufagenin-Like and Ouabain-Like Immunoreactivity in Adrenocorticotropin-Treated Rats. <i>American Journal of Hypertension</i> , 1998, 11, 796-802.	1.0	26
59	Endogenous digoxin-like factor in acute myocardial infarction. <i>Journal of Internal Medicine</i> , 1994, 235, 63-67.	2.7	25
60	Myocardial PKC β 2 and the Sensitivity of Na/K-ATPase to Marinobufagenin Are Reduced by Cicletanine in Dahl Hypertension. <i>Hypertension</i> , 2003, 41, 505-511.	1.3	25
61	Interaction of Digibind with endogenous cardiotonic steroids from preeclamptic placentae. <i>Journal of Hypertension</i> , 2010, 28, 361-366.	0.3	25
62	Phorbol Diacetate Potentiates Na + -K + ATPase Inhibition by a Putative Endogenous Ligand, Marinobufagenin. <i>Hypertension</i> , 2002, 39, 298-302.	1.3	23
63	Endogenous digitalis-like ligands of the sodium pump: possible involvement in mood control and ethanol addiction. <i>European Neuropsychopharmacology</i> , 2002, 12, 1-12.	0.3	23
64	High end tidal CO ₂ association with blood pressure response to sodium loading in older adults. <i>Journal of Hypertension</i> , 1996, 14, 1073-1079.	0.3	22
65	Aortic Fibrosis, Induced by High Salt Intake in the Absence of Hypertensive Response, Is Reduced by a Monoclonal Antibody to Marinobufagenin. <i>American Journal of Hypertension</i> , 2016, 29, 641-646.	1.0	22
66	Inhibited Breathing Decreases Renal Sodium Excretion. <i>Psychosomatic Medicine</i> , 1995, 57, 373-380.	1.3	21
67	Telocinobufagin, a Novel Cardiotonic Steroid, Promotes Renal Fibrosis via Na ⁺ /K ⁺ -ATPase Profibrotic Signaling Pathways. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2566.	1.8	21
68	Effect of endogenous digoxin-like factor and digoxin antibody on myocardial Na ⁺ , K ⁺ -pump activity and ventricular arrhythmias in acute myocardial ischaemia in rats. <i>Cardiovascular Research</i> , 1993, 27, 1045-1050.	1.8	17
69	Cicletanine reverses vasoconstriction induced by the endogenous sodium pump ligand, marinobufagenin, via a protein kinase C dependent mechanism. <i>Journal of Hypertension</i> , 2000, 18, 209-215.	0.3	17
70	Plasma level of the endogenous sodium pump ligand marinobufagenin is related to the salt-sensitivity in men. <i>Journal of Hypertension</i> , 2015, 33, 534-541.	0.3	16
71	Involvement of endogenous digitalis-like factors involuntary selection of alcohol by rats. <i>Life Sciences</i> , 1999, 64, PL219-PL225.	2.0	15
72	DigiFab Interacts With Endogenous Cardiotonic Steroids and Reverses Preeclampsia-Induced Na/K-ATPase Inhibition. <i>Reproductive Sciences</i> , 2012, 19, 1260-1267.	1.1	15

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73	Selective ligands for Na ⁺ /K ⁺ -ATPase α isoforms differentially and cooperatively regulate excitability of pyramidal neurons in distinct brain regions. <i>Neuropharmacology</i> , 2017, 117, 338-351.	2.0	15
74	Comparison of Digitalis Sensitivities of Na ⁺ /K ⁺ -ATPases from Human and Pig Kidneys. <i>ACS Omega</i> , 2017, 2, 3610-3615.	1.6	15
75	Large artery stiffness is associated with marinobufagenin in young adults. <i>Journal of Hypertension</i> , 2018, 36, 2333-2339.	0.3	15
76	Monoclonal Antibody to Marinobufagenin Downregulates TGF β Profibrotic Signaling in Left Ventricle and Kidney and Reduces Tissue Remodeling in Salt-Sensitive Hypertension. <i>Journal of the American Heart Association</i> , 2019, 8, e012138.	1.6	15
77	Age-associated increase in salt sensitivity is accompanied by a shift in the atrial natriuretic peptide modulation of the effect of marinobufagenin on renal and vascular sodium pump. <i>Journal of Hypertension</i> , 2012, 30, 1817-1826.	0.3	14
78	Antibody to Marinobufagenin Reverses Placenta-Induced Fibrosis of Umbilical Arteries in Preeclampsia. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2377.	1.8	14
79	Marinobufagenin (MBC) suppression of ethanol-seeking behavior is associated with inhibition of brain cortex Na/K-ATPase in mice. <i>European Neuropsychopharmacology</i> , 2002, 12, 217-223.	0.3	12
80	Sodium sensitivity in young adults with high resting end-tidal CO ₂ . <i>Journal of Hypertension</i> , 1998, 16, 1015-1022.	0.3	11
81	Racial differences in resting end-tidal CO ₂ and circulating sodium pump inhibitor. <i>American Journal of Hypertension</i> , 2001, 14, 761-767.	1.0	11
82	Endogenous sodium pump inhibitors, diabetes mellitus and preeclampsia. <i>Pathophysiology</i> , 2007, 14, 147-151.	1.0	11
83	Cardiotonic Steroids Induce Vascular Fibrosis Via Pressure-Independent Mechanism in NaCl-Loaded Diabetic Rats. <i>Journal of Cardiovascular Pharmacology</i> , 2019, 74, 436-442.	0.8	10
84	α 1-Na/K-ATPase inhibition rescues aberrant dendritic calcium dynamics and memory deficits in the hippocampus of an Angelman syndrome mouse model. <i>Progress in Neurobiology</i> , 2019, 182, 101676.	2.8	9
85	Preeclampsia: Cardiotonic Steroids, Fibrosis, Fli1 and Hint to Carcinogenesis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1941.	1.8	8
86	Endogenous bufadienolide mediates pressor response to ethanol withdrawal in rats. <i>European Neuropsychopharmacology</i> , 2008, 18, 74-77.	0.3	7
87	Model of Chronic Thromboembolic Pulmonary Hypertension in Rats Caused by Repeated Intravenous Administration of Partially Biodegradable Sodium Alginate Microspheres. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1149.	1.8	7
88	Magnesium Sulfate Potentiates Effect of Digifab on Marinobufagenin-Induced Na/K-ATPase Inhibition. <i>American Journal of Hypertension</i> , 2013, 26, 1269-1272.	1.0	5
89	Marinobufagenin in Urine: A Potential Marker of Predisposition to Ethanol and a Target for Spironolactone. <i>Current Hypertension Reviews</i> , 2018, 14, 35-38.	0.5	5
90	Endogenous Bufadienolides, Fibrosis and Preeclampsia. <i>Cardiology Research and Practice</i> , 2019, 2019, 1-7.	0.5	5

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91	Antibody against Na/K-ATPase Inhibitor Lowers Blood Pressure and Increases Vascular Fli1 in Experimental Preeclampsia. American Journal of Hypertension, 2020, 33, 514-519.	1.0	5
92	Microvascular function in non-dippers: Potential involvement of the salt sensitivity biomarker, marinobufagenin – The African PREDICT study. Journal of Clinical Hypertension, 2020, 22, 86-94.	1.0	5
93	Chronic β -1-Na/K-ATPase inhibition reverses the elongation of the axon initial segment of the hippocampal CA1 pyramidal neurons in Angelman syndrome model mice. Neuropsychopharmacology, 2021, 46, 654-664.	2.8	5
94	Canrenone Restores Vasorelaxation Impaired by Marinobufagenin in Human Preeclampsia. International Journal of Molecular Sciences, 2022, 23, 3336.	1.8	5
95	Plasma β -endorphin levels in acute myocardial infarction. Annals of Emergency Medicine, 1993, 22, 268-269.	0.3	4
96	Effect of Cardiotonic Steroid Marinobufagenin on Vascular Remodeling and Cognitive Impairment in Young Dahl-S Rats. International Journal of Molecular Sciences, 2022, 23, 4563.	1.8	4
97	Acute salt loading and cardiotonic steroids in resistant hypertension. Current Topics in Membranes, 2019, 83, 1-13.	0.5	3
98	Antiarrhythmic effect of antibodies to digoxin in experimental myocardial infarction (the Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td (Medicine, 1991, 112, 919-921.	0.3	1
99	Gangliosides protect erythrocyte membranes from myocardial ischemia. Bulletin of Experimental Biology and Medicine, 1992, 114, 1436-1439.	0.3	1
100	Vasorelaxant effects of cicletanine and its (+)- and (β)-enantiomers in isolated human pulmonary arteries. American Journal of Hypertension, 1998, 11, 1386-1389.	1.0	1
101	High salt is a risk factor for cardiovascular and kidney diseases. What is next, fibrosis?. Journal of Hypertension, 2021, 39, 1309-1310.	0.3	1
102	Endogenous Digoxin-Like Factor: Possible Emergency Implications. Prehospital and Disaster Medicine, 1992, 7, 65-68.	0.7	0
103	Controlling the Movement of Magnetic Iron Oxide Nanoparticles Intended for Targeted Delivery of Cytostatics. International Journal of Nanomedicine, 2021, Volume 16, 5651-5664.	3.3	0
104	Endogenous Bufadienolide, Blood Pressure and Alcohol Withdrawal. Current Hypertension Reviews, 2021, 17, 170-173.	0.5	0