

Heikki Juhani Ruskoaho

List of Publications by Year in descending order

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112
papers

4,429
citations

87888

38
h-index

114465

63
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115
all docs

115
docs citations

115
times ranked

5392
citing authors

#	ARTICLE	IF	CITATIONS
1	Cardiac fibrosis in myocardial infarction— from repair and remodeling to regeneration. <i>Cell and Tissue Research</i> , 2016, 365, 563-581.	2.9	617
2	GATA transcription factors in the developing and adult heart. <i>Cardiovascular Research</i> , 2004, 63, 196-207.	3.8	349
3	Cardiac Hormones as Diagnostic Tools in Heart Failure. <i>Endocrine Reviews</i> , 2003, 24, 341-356.	20.1	224
4	Effects of dexmedetomidine, a selective α_2 -adrenoceptor agonist, on hemodynamic control mechanisms. <i>Clinical Pharmacology and Therapeutics</i> , 1989, 46, 33-42.	4.7	203
5	GATA-4 Is a Nuclear Mediator of Mechanical Stretch-activated Hypertrophic Program. <i>Journal of Biological Chemistry</i> , 2003, 278, 23807-23816.	3.4	106
6	Distinct Upregulation of Extracellular Matrix Genes in Transition From Hypertrophy to Hypertensive Heart Failure. <i>Hypertension</i> , 2005, 45, 927-933.	2.7	106
7	Mitogen-activated Protein Kinases p38 and ERK 1/2 Mediate the Wall Stress-induced Activation of GATA-4 Binding in Adult Heart. <i>Journal of Biological Chemistry</i> , 2004, 279, 24852-24860.	3.4	90
8	Adrenomedullin Gene Expression in the Rat Heart is Stimulated by Acute Pressure Overload: Blunted Effect in Experimental Hypertension. <i>Endocrinology</i> , 1997, 138, 2636-2639.	2.8	84
9	Apelin Increases Cardiac Contractility via Protein Kinase C μ - and Extracellular Signal-Regulated Kinase-Dependent Mechanisms. <i>PLoS ONE</i> , 2014, 9, e93473.	2.5	82
10	Drug-Loaded Multifunctional Nanoparticles Targeted to the Endocardial Layer of the Injured Heart Modulate Hypertrophic Signaling. <i>Small</i> , 2017, 13, 1701276.	10.0	82
11	Pressure Overload Increases GATA4 Binding Activity via Endothelin-1. <i>Circulation</i> , 2001, 103, 730-735.	1.6	79
12	In vivo biocompatibility of porous silicon biomaterials for drug delivery to the heart. <i>Biomaterials</i> , 2014, 35, 8394-8405.	11.4	73
13	Distinct Roles of Mitogen-activated Protein Kinase Pathways in GATA-4 Transcription Factor-mediated Regulation of B-type Natriuretic Peptide Gene. <i>Journal of Biological Chemistry</i> , 2002, 277, 13752-13760.	3.4	72
14	In vitro and in vivo assessment of heart-homing porous silicon nanoparticles. <i>Biomaterials</i> , 2016, 94, 93-104.	11.4	72
15	Mechanical load-induced alterations in B-type natriuretic peptide gene expression. <i>Canadian Journal of Physiology and Pharmacology</i> , 2001, 79, 646-653.	1.4	68
16	Mechanisms of mechanical load-induced atrial natriuretic peptide secretion: role of endothelin, nitric oxide, and angiotensin II. <i>Journal of Molecular Medicine</i> , 1997, 75, 876-885.	3.9	67
17	Gene Structure of a New Cardiac Peptide Hormone: A Model for Heart-Specific Gene Expression1. <i>Endocrinology</i> , 2000, 141, 731-740.	2.8	66
18	GATA-4 Is an Angiogenic Survival Factor of the Infarcted Heart. <i>Circulation: Heart Failure</i> , 2010, 3, 440-450.	3.9	62

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19	Vascular endothelial growth factor-B gene transfer prevents angiotensin II-induced diastolic dysfunction via proliferation and capillary dilatation in rats. <i>Cardiovascular Research</i> , 2011, 89, 204-213.	3.8	62
20	Dual Drug Delivery Using Dextran-Functionalized Nanoparticles Targeting Cardiac Fibroblasts for Cellular Reprogramming. <i>Advanced Functional Materials</i> , 2018, 28, 1705134.	14.9	60
21	Identification of Cell Cycle Regulatory and Inflammatory Genes As Predominant Targets of p38 Mitogen-Activated Protein Kinase in the Heart. <i>Circulation Research</i> , 2006, 99, 485-493.	4.5	59
22	p38 Kinase rescues failing myocardium after myocardial infarction: evidence for angiogenic and anti-apoptotic mechanisms. <i>FASEB Journal</i> , 2006, 20, 1907-1909.	0.5	58
23	Fabrication and Characterization of Drug-Loaded Conductive Poly(glycerol) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 587 Td (see also Materials & Interfaces, 2020, 12, 6899-6909.	8.0	57
24	Endothelin-1 Is Involved in Stretch-Induced Early Activation of B-Type Natriuretic Peptide Gene Expression in Atrial but Not in Ventricular Myocytes. <i>Circulation</i> , 1997, 96, 3053-3062.	1.6	57
25	Multifunctional 3D-Printed Patches for Long-Term Drug Release Therapies after Myocardial Infarction. <i>Advanced Functional Materials</i> , 2020, 30, 2003440.	14.9	53
26	Mechanical stretch induced transcriptomic profiles in cardiac myocytes. <i>Scientific Reports</i> , 2018, 8, 4733.	3.3	51
27	Cellular Internalization-Induced Aggregation of Porous Silicon Nanoparticles for Ultrasound Imaging and Protein-Mediated Protection of Stem Cells. <i>Small</i> , 2019, 15, e1804332.	10.0	51
28	Inhibition of Let-7 microRNA attenuates myocardial remodeling and improves cardiac function postinfarction in mice. <i>Pharmacology Research and Perspectives</i> , 2014, 2, e00056.	2.4	49
29	Natriuretic Peptides Stimulate Steroidogenesis in the Fetal Rat Testis1. <i>Biology of Reproduction</i> , 2001, 65, 595-600.	2.7	48
30	Connective Tissue Growth Factor Inhibition Enhances Cardiac Repair and Limits Fibrosis After Myocardial Infarction. <i>JACC Basic To Translational Science</i> , 2019, 4, 83-94.	4.1	48
31	Discovery of Small Molecules Targeting the Synergy of Cardiac Transcription Factors GATA4 and NKX2-5. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 7781-7798.	6.4	46
32	Direct left ventricular wall stretch activates GATA4 binding in perfused rat heart: involvement of autocrine/paracrine pathways. <i>Pflügers Archiv European Journal of Physiology</i> , 2002, 443, 362-369.	2.8	43
33	Intramyocardial BNP Gene Delivery Improves Cardiac Function Through Distinct Context-Dependent Mechanisms. <i>Circulation: Heart Failure</i> , 2011, 4, 483-495.	3.9	42
34	Dual-peptide functionalized acetalated dextran-based nanoparticles for sequential targeting of macrophages during myocardial infarction. <i>Nanoscale</i> , 2020, 12, 2350-2358.	5.6	42
35	Evidence for a Functional Role of Angiotensin II Type 2 Receptor in the Cardiac Hypertrophic Process In Vivo in the Rat Heart. <i>Circulation</i> , 2003, 108, 2414-2422.	1.6	41
36	GATA4 Mediates Activation of the B-Type Natriuretic Peptide Gene Expression in Response to Hemodynamic Stress. <i>Endocrinology</i> , 2001, 142, 4693-4700.	2.8	40

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37	Endothelin Peptides: Biological Activities, Cellular Signalling and Clinical Significance. <i>Annals of Medicine</i> , 1992, 24, 153-161.	3.8	39
38	Posttranscriptional Control of BNP Gene Expression in Angiotensin II-Induced Hypertension. <i>Hypertension</i> , 2002, 39, 803-808.	2.7	39
39	(Pro)renin Receptor Triggers Distinct Angiotensin II-Independent Extracellular Matrix Remodeling and Deterioration of Cardiac Function. <i>PLoS ONE</i> , 2012, 7, e41404.	2.5	39
40	Hypoxic pressor response, cardiac size, and natriuretic peptides are modified by long-term intermittent hypoxia. <i>Journal of Applied Physiology</i> , 1999, 87, 2025-2031.	2.5	38
41	Quinapril treatment and arterial smooth muscle responses in spontaneously hypertensive rats. <i>British Journal of Pharmacology</i> , 1993, 108, 980-990.	5.4	35
42	Endothelin-1-specific Activation of B-type Natriuretic Peptide Gene via p38 Mitogen-activated Protein Kinase and Nuclear ETS Factors. <i>Journal of Biological Chemistry</i> , 2003, 278, 3969-3975.	3.4	33
43	AT ₁ Receptor Blockade Improves Vasorelaxation in Experimental Renal Failure. <i>Hypertension</i> , 2003, 41, 1364-1371.	2.7	32
44	Cardiac BNP gene activation by angiotensin II in vivo. <i>Molecular and Cellular Endocrinology</i> , 2007, 273, 59-67.	3.2	31
45	Cardiac Actions of a Small Molecule Inhibitor Targeting GATA4-NKX2-5 Interaction. <i>Scientific Reports</i> , 2018, 8, 4611.	3.3	29
46	Stem cells are the most sensitive screening tool to identify toxicity of GATA4-targeted novel small-molecule compounds. <i>Archives of Toxicology</i> , 2018, 92, 2897-2911.	4.2	26
47	Nuclear Receptor-Like Structure and Interaction of Congenital Heart Disease-Associated Factors GATA4 and NKX2-5. <i>PLoS ONE</i> , 2015, 10, e0144145.	2.5	25
48	Immunohistochemical Localization of Somatostatin Receptor SST2A in the Rat Pancreas. <i>Endocrinology</i> , 1997, 138, 2636-2639.	2.8	23
49	Identification of PKC ζ Isoform-Specific Effects in Cardiac Myocytes Using Antisense Phosphorothioate Oligonucleotides. <i>Molecular Pharmacology</i> , 2002, 62, 1482-1491.	2.3	22
50	Effects of high calcium diet on arterial smooth muscle function and electrolyte balance in mineralocorticoid-salt hypertensive rats. <i>British Journal of Pharmacology</i> , 1993, 108, 948-958.	5.4	21
51	Cellular Mechanisms of Valvular Thickening in Early and Intermediate Calcific Aortic Valve Disease. <i>Current Cardiology Reviews</i> , 2018, 14, 264-271.	1.5	21
52	Characterization of the Regulatory Mechanisms of Activating Transcription Factor 3 by Hypertrophic Stimuli in Rat Cardiomyocytes. <i>PLoS ONE</i> , 2014, 9, e105168.	2.5	20
53	p38 δ regulates SERCA2a function. <i>Journal of Molecular and Cellular Cardiology</i> , 2014, 67, 86-93.	1.9	20
54	Gene Structure of a New Cardiac Peptide Hormone: A Model for Heart-Specific Gene Expression. <i>Endocrinology</i> , 2000, 141, 731-740.	2.8	20

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55	Factors Derived from Adrenals Are Required for Activation of Cardiac Gene Expression in Angiotensin II-Induced Hypertension. <i>Endocrinology</i> , 2001, 142, 4256-4263.	2.8	19
56	Targeting GATA4 for cardiac repair. <i>IUBMB Life</i> , 2020, 72, 68-79.	3.4	19
57	Synthesis, Identification, and Structure-Activity Relationship Analysis of GATA4 and NKX2-5 Protein-Protein Interaction Modulators. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 8284-8310.	6.4	18
58	Heat shock protein 90 is downregulated in calcific aortic valve disease. <i>BMC Cardiovascular Disorders</i> , 2019, 19, 306.	1.7	18
59	GATA4-targeted compound exhibits cardioprotective actions against doxorubicin-induced toxicity in vitro and in vivo: establishment of a chronic cardiotoxicity model using human iPSC-derived cardiomyocytes. <i>Archives of Toxicology</i> , 2020, 94, 2113-2130.	4.2	18
60	GATA4 Mediates Activation of the B-Type Natriuretic Peptide Gene Expression in Response to Hemodynamic Stress. <i>Endocrinology</i> , 2001, 142, 4693-4700.	2.8	18
61	The effect of medetomidine, an α_2 -adrenoceptor agonist, on plasma atrial natriuretic peptide levels, haemodynamics and renal excretory function in spontaneously hypertensive and Wistar-Kyoto rats. <i>British Journal of Pharmacology</i> , 1989, 97, 125-132.	5.4	17
62	NG-Nitro-L-Arginine Methyl Ester-Induced Hypertension and Natriuretic Peptide Gene Expression: Inhibition by Angiotensin II Type 1 Receptor Antagonism. <i>Journal of Cardiovascular Pharmacology</i> , 2002, 40, 478-486.	1.9	17
63	Impact of NO on ET-1- and AM-induced inotropic responses: potentiation by combined administration. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000, 279, R569-R575.	1.8	16
64	Divergent Effects of Losartan and Metoprolol on Cardiac Remodeling, c-Kit ⁺ Cells, Proliferation and Apoptosis in the Left Ventricle after Myocardial Infarction. <i>Clinical and Translational Science</i> , 2009, 2, 422-430.	3.1	16
65	The Early-Onset Myocardial Infarction Associated PHACTR1 Gene Regulates Skeletal and Cardiac Alpha-Actin Gene Expression. <i>PLoS ONE</i> , 2015, 10, e0130502.	2.5	16
66	Differential regulation of cardiac adrenomedullin and natriuretic peptide gene expression by AT1 receptor antagonism and ACE inhibition in normotensive and hypertensive rats. <i>Journal of Hypertension</i> , 1999, 17, 1543-1552.	0.5	15
67	Targeting vasoactive peptides for managing calcific aortic valve disease. <i>Annals of Medicine</i> , 2017, 49, 63-74.	3.8	14
68	Inhibition of Hepatic Microsomal Drug Metabolism in Rats by Five Calcium Antagonists. <i>Basic and Clinical Pharmacology and Toxicology</i> , 1989, 64, 446-450.	0.0	13
69	Neoplastic extracellular matrix environment promotes cancer invasion in vitro. <i>Experimental Cell Research</i> , 2016, 344, 229-240.	2.6	13
70	SDF1 gradient associates with the distribution of c-Kit ⁺ cardiac cells in the heart. <i>Scientific Reports</i> , 2018, 8, 1160.	3.3	13
71	In Vitro Evaluation of the Therapeutic Effects of Dual-Drug Loaded Spermine-Acetalated Dextran Nanoparticles Coated with Tannic Acid for Cardiac Applications. <i>Advanced Functional Materials</i> , 2022, 32, 2109032.	14.9	13
72	Release of atrial natriuretic peptide from rat myocardium <i>in vitro</i> : effect of minoxidil-induced hypertrophy. <i>British Journal of Pharmacology</i> , 1990, 99, 701-708.	5.4	12

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73	Effect of phorbol ester on the release of atrial natriuretic peptide from the hypertrophied rat myocardium. <i>British Journal of Pharmacology</i> , 1991, 102, 453-461.	5.4	12
74	Early left ventricular gene expression profile in response to increase in blood pressure. <i>Blood Pressure</i> , 2006, 15, 375-383.	1.5	12
75	Phosphorylation of GATA4 at serine 105 is required for left ventricular remodelling process in angiotensin II-induced hypertension in rats. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2020, 127, 178-195.	2.5	12
76	Bone morphogenetic protein-2 is a potential autocrine/paracrine factor in mediating the stretch activated B-type and atrial natriuretic peptide expression in cardiac myocytes. <i>Molecular and Cellular Endocrinology</i> , 2015, 399, 9-21.	3.2	11
77	Vasoactive Peptide Release in Relation to Hemodynamic and Metabolic Changes During Rapid Ventricular Pacing. <i>PACE - Pacing and Clinical Electrophysiology</i> , 1999, 22, 1064-1070.	1.2	10
78	Prevention of Cardiac Hypertrophy by Long-term Treatment with Isosorbide Dinitrate and Prazosin but not by Minoxidil in Spontaneously Hypertensive Rats. <i>Acta Pharmacologica Et Toxicologica</i> , 1984, 54, 154-157.	0.0	10
79	Transcription factor PEX1 modulates extracellular matrix turnover through regulation of MMP-9 expression. <i>Cell and Tissue Research</i> , 2017, 367, 369-385.	2.9	10
80	A novel dual reporter embryonic stem cell line for toxicological assessment of teratogen-induced perturbation of anterior-posterior patterning of the heart. <i>Archives of Toxicology</i> , 2020, 94, 631-645.	4.2	10
81	Effect of atenolol and pindolol on the phorbol ester-induced coronary vasoconstriction in the isolated perfused heart of the rat. <i>British Journal of Pharmacology</i> , 1988, 94, 573-583.	5.4	9
82	EFFECT OF VASOACTIVE PEPTIDES ON TETRAHYMENA. CHEMOTACTIC PROPERTIES OF ENDOTHELINS (ET-1), Tj ETQq0 0 0 rgBT /Overlo MECHANISM OF CHEMOTAXIS. <i>Cell Biology International</i> , 2001, 25, 1173-1177.	3.0	9
83	Pharmacological Protein Kinase C Modulators Reveal a Pro-hypertrophic Role for Novel Protein Kinase C Isoforms in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. <i>Frontiers in Pharmacology</i> , 2020, 11, 553852.	3.5	8
84	Conventional rigid 2D substrates cause complex contractile signals in monolayers of human induced pluripotent stem cell-derived cardiomyocytes. <i>Journal of Physiology</i> , 2022, 600, 483-507.	2.9	8
85	Hemodynamic Recovery, Atrial Natriuretic Peptide, and Catecholamines During Simulated Ventricular Tachycardia: Effects of Ventriculoatrial Conduction. <i>PACE - Pacing and Clinical Electrophysiology</i> , 1995, 18, 75-82.	1.2	7
86	A novel p38 MAPK target dyxin is rapidly induced by mechanical load in the heart. <i>Blood Pressure</i> , 2010, 19, 54-63.	1.5	7
87	WDR12, a Member of Nucleolar PeBoW-Complex, Is Up-Regulated in Failing Hearts and Causes Deterioration of Cardiac Function. <i>PLoS ONE</i> , 2015, 10, e0124907.	2.5	7
88	Distinct regulation of cardiac fibroblast proliferation and transdifferentiation by classical and novel protein kinase C isoforms: possible implications for new antifibrotic therapies. <i>Molecular Pharmacology</i> , 2020, 99, MOLPHARM-AR-2020-000094.	2.3	7
89	Circulating protein biomarkers predict incident hypertensive heart failure independently of N-terminal pro-B-type natriuretic peptide levels. <i>ESC Heart Failure</i> , 2020, 7, 1891-1899.	3.1	7
90	GATA-targeted compounds modulate cardiac subtype cell differentiation in dual reporter stem cell line. <i>Stem Cell Research and Therapy</i> , 2021, 12, 190.	5.5	7

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91	Domain-Independent Inhibition of CBP/p300 Attenuates β -Synuclein Aggregation. ACS Chemical Neuroscience, 2021, 12, 2273-2279.	3.5	7
92	Plasma ANP and Cyclic GMP Levels Versus Left Ventricular Performance at Different AV Delays in AV Sequential Pacing. PACE - Pacing and Clinical Electrophysiology, 1994, 17, 627-636.	1.2	6
93	Inhibition of Atrial Wall Stretch-Induced Cardiac Hormone Secretion by Lavendustin A, a Potent Tyrosine Kinase Inhibitor ¹ . Endocrinology, 1999, 140, 4198-4207.	2.8	6
94	Mitogen-activated protein kinase p38 target regenerating islet-derived 3 β expression is upregulated in cardiac inflammatory response in the rat heart. Physiological Reports, 2016, 4, e12996.	1.7	6
95	cAMP- and cGMP-independent stretch-induced changes in the contraction of rat atrium. Pflugers Archiv European Journal of Physiology, 2000, 441, 65-68.	2.8	5
96	Effects of oxonic acid-induced hyperuricemia on mesenteric artery tone and cardiac load in experimental renal insufficiency. BMC Nephrology, 2015, 16, 35.	1.8	5
97	Inhibition of let-7c Regulates Cardiac Regeneration after Cryoinjury in Adult Zebrafish. Journal of Cardiovascular Development and Disease, 2019, 6, 16.	1.6	5
98	Cholecystokinin peptide signaling is regulated by a TBX5-MEF2 axis in the heart. Peptides, 2021, 136, 170459.	2.4	4
99	Hormonal, Haemodynamic, and Subjective Effects of Intravenously Infused Indomethacin: No Change in the Physiological Response to Hypertonic Saline Challenge. Basic and Clinical Pharmacology and Toxicology, 1989, 65, 231-235.	0.0	3
100	Depressant Effects of L-Tyrosine on Isolated Perfused Rat and Rabbit Hearts. Basic and Clinical Pharmacology and Toxicology, 1990, 66, 209-212.	0.0	3
101	TSC-22 up-regulates collagen 3a1 gene expression in the rat heart. BMC Cardiovascular Disorders, 2015, 15, 122.	1.7	2
102	Effect of vasoactive peptides in Tetrahymena: chemotactic activities of adrenomedullin, proadrenomedullin N-terminal 20 peptide (PAMP) and calcitonin gene-related peptide (CGRP). Molecular and Cellular Biochemistry, 2016, 411, 271-280.	3.1	2
103	Inhibition of Atrial Wall Stretch-Induced Cardiac Hormone Secretion by Lavendustin A, a Potent Tyrosine Kinase Inhibitor. Endocrinology, 1999, 140, 4198-4207.	2.8	2
104	The Haemodynamic Effects of Losartan after Right Ventricle Infarct in Young Pigs. Basic and Clinical Pharmacology and Toxicology, 2001, 88, 325-330.	0.0	1
105	Upregulation of cardiac matrix Gla protein expression in response to hypertrophic stimuli. Blood Pressure, 2009, 18, 286-293.	1.5	1
106	Differential gene expressions of natriuretic peptides in left ventricular hypertrophy models in conscious rats. American Journal of Hypertension, 2001, 14, A161-A162.	2.0	0
107	Left ventricular expression of ANP, BNP and adrenomedullin are differentially regulated during beta receptor stimulation in rats in vivo. American Journal of Hypertension, 2001, 14, A206.	2.0	0
108	Circulating and cardiac levels of apelin, novel ligand of the orphan receptor APJ, in patients with heart failure. American Journal of Hypertension, 2003, 16, A15.	2.0	0

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109	The Effect of Aminophylline on Right Heart Function in Young Pigs after Ligation of the Right Coronary Artery. Basic and Clinical Pharmacology and Toxicology, 2008, 86, 192-196.	0.0	0
110	Calcium Carbonate versus Sevelamer Hydrochloride as Phosphate Binders after Long-Term Disease Progression in 5/6 Nephrectomized Rats. Advances in Nephrology, 2014, 2014, 1-10.	0.2	0
111	Identification of cardiomyocyte-enriched long non-coding RNAs as potential targets for induction of cardiac regeneration. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO2-3-46.	0.0	0
112	Stem cells are the most sensitive screening tool to identify toxicity of GATA4- targeted small-molecule compounds. Proceedings for Annual Meeting of the Japanese Pharmacological Society, 2018, WCP2018, PO4-9-32.	0.0	0