

Russell H Knutsen

List of Publications by Year in descending order

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34
papers

2,217
citations

218677

26
h-index

377865

34
g-index

34
all docs

34
docs citations

34
times ranked

2741
citing authors

#	ARTICLE	IF	CITATIONS
1	Hypertension and prolonged vasoconstrictor signaling in RGS2-deficient mice. <i>Journal of Clinical Investigation</i> , 2003, 111, 445-452.	8.2	254
2	Developmental adaptation of the mouse cardiovascular system to elastin haploinsufficiency. <i>Journal of Clinical Investigation</i> , 2003, 112, 1419-1428.	8.2	214
3	Dexamethasone induction of hypertension and diabetes is PPAR- α dependent in LDL receptor- α null mice. <i>Nature Medicine</i> , 2003, 9, 1069-1075.	30.7	187
4	Effects of elastin haploinsufficiency on the mechanical behavior of mouse arteries. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005, 289, H1209-H1217.	3.2	160
5	Reduced Vessel Elasticity Alters Cardiovascular Structure and Function in Newborn Mice. <i>Circulation Research</i> , 2009, 104, 1217-1224.	4.5	94
6	An Afferent Vagal Nerve Pathway Links Hepatic PPAR- α Activation to Glucocorticoid-Induced Insulin Resistance and Hypertension. <i>Cell Metabolism</i> , 2007, 5, 91-102.	16.2	90
7	Deficiency in Microfibril-associated Glycoprotein-1 Leads to Complex Phenotypes in Multiple Organ Systems. <i>Journal of Biological Chemistry</i> , 2008, 283, 25533-25543.	3.4	89
8	Increased Fibulin-5 and Elastin in S100A4/Mts1 Mice With Pulmonary Hypertension. <i>Circulation Research</i> , 2005, 97, 596-604.	4.5	87
9	Functional Rescue of Elastin Insufficiency in Mice by the Human Elastin Gene. <i>Circulation Research</i> , 2007, 101, 523-531.	4.5	85
10	Elastin protein levels are a vital modifier affecting normal lung development and susceptibility to emphysema. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007, 292, L778-L787.	2.9	84
11	Discrete Contributions of Elastic Fiber Components to Arterial Development and Mechanical Compliance. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 2083-2089.	2.4	76
12	Decreased aortic diameter and compliance precedes blood pressure increases in postnatal development of elastin-insufficient mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 301, H221-H229.	3.2	70
13	Williams Syndrome Predisposes to Vascular Stiffness Modified by Antihypertensive Use and Copy Number Changes in <i>NCF1</i> . <i>Hypertension</i> , 2014, 63, 74-79.	2.7	69
14	Microfibril-associated Glycoprotein 2 (MAGP2) Loss of Function Has Pleiotropic Effects in Vivo. <i>Journal of Biological Chemistry</i> , 2013, 288, 28869-28880.	3.4	63
15	The importance of elastin to aortic development in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H257-H264.	3.2	60
16	Hypotension Due to Kir6.1 Gain-of-Function in Vascular Smooth Muscle. <i>Journal of the American Heart Association</i> , 2013, 2, e000365.	3.7	55
17	Upregulation of elastase proteins results in aortic dilatation in mucopolysaccharidosis I mice. <i>Molecular Genetics and Metabolism</i> , 2008, 94, 298-304.	1.1	50
18	Pathogenesis of aortic dilatation in mucopolysaccharidosis VII mice may involve complement activation. <i>Molecular Genetics and Metabolism</i> , 2011, 104, 608-619.	1.1	44

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19	Minoxidil improves vascular compliance, restores cerebral blood flow, and alters extracellular matrix gene expression in a model of chronic vascular stiffness. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H18-H32.	3.2	44
20	Smooth Muscle Protein 22 α -Mediated Patchy Deletion of <i>Bmpr1a</i> Impairs Cardiac Contractility but Protects Against Pulmonary Vascular Remodeling. <i>Circulation Research</i> , 2008, 102, 380-388.	4.5	43
21	Elastin insufficiency predisposes to elevated pulmonary circulatory pressures through changes in elastic artery structure. <i>Journal of Applied Physiology</i> , 2008, 105, 1610-1619.	2.5	40
22	Albumin contributes to kidney disease progression in Alport syndrome. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 311, F120-F130.	2.7	35
23	Genetic Modifiers of Cardiovascular Phenotype Caused by Elastin Haploinsufficiency Act by Extrinsic Noncomplementation. <i>Journal of Biological Chemistry</i> , 2011, 286, 44926-44936.	3.4	34
24	Altered reactivity of resistance vasculature contributes to hypertension in elastin insufficiency. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 306, H654-H666.	3.2	32
25	Alternative Splicing and Tissue-specific Elastin Misassembly Act as Biological Modifiers of Human Elastin Gene Frameshift Mutations Associated with Dominant Cutis Laxa. <i>Journal of Biological Chemistry</i> , 2012, 287, 22055-22067.	3.4	28
26	Mechanisms of emphysema in autosomal dominant cutis laxa. <i>Matrix Biology</i> , 2010, 29, 621-628.	3.6	27
27	Elastin-insufficient mice show normal cardiovascular remodeling in 2K1C hypertension despite higher baseline pressure and unique cardiovascular architecture. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 293, H574-H582.	3.2	22
28	Skin findings in Williams syndrome. <i>American Journal of Medical Genetics, Part A</i> , 2014, 164, 2217-2225.	1.2	22
29	Chronic antihypertensive treatment improves pulse pressure but not large artery mechanics in a mouse model of congenital vascular stiffness. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H1008-H1016.	3.2	21
30	Whole exome sequencing in patients with Williams-Beuren syndrome followed by disease modeling in mice points to four novel pathways that may modify stenosis risk. <i>Human Molecular Genetics</i> , 2020, 29, 2035-2050.	2.9	15
31	Inhibition of NOX1 Mitigates Blood Pressure Increases in Elastin Insufficiency. <i>Function</i> , 2021, 2, zqab015.	2.3	10
32	Vascular Casting of Adult and Early Postnatal Mouse Lungs for Micro-CT Imaging. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	6
33	Neuraxial dysraphism in EPAS1-associated syndrome due to improper mesenchymal transition. <i>Neurology: Genetics</i> , 2020, 6, e414.	1.9	5
34	Elastin Insufficiency Confers Proximal and Distal Pulmonary Vasculopathy in Mice, Partially Remedied by the KATP Channel Opener Minoxidil: Considerations and Cautions for the Treatment of People With Williams-Beuren Syndrome. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, .	2.4	2