Russell H Knutsen

List of Publications by Year
in descending order

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	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. Frontiers in Cardiovascular Medicine, 2022, 9, .	2.4	2
2	Inhibition of NOX1 Mitigates Blood Pressure Increases in Elastin Insufficiency. Function, 2021, 2, zqab015.	2.3	10
3	Neuraxial dysraphism in EPAS1-associated syndrome due to improper mesenchymal transition. Neurology: Genetics, 2020, 6, e414.	1.9	5
4	Whole exome sequencing in patients with Williamsâ€“Beuren syndrome followed by disease modeling in mice points to four novel pathways that may modify stenosis risk. Human Molecular Genetics, 2020, 29, 2035-2050.	2.9	15
5	Vascular Casting of Adult and Early Postnatal Mouse Lungs for Micro-CT Imaging. Journal of Visualized Experiments, 2020, , .	0.3	6
6	Minoxidil improves vascular compliance, restores cerebral blood flow, and alters extracellular matrix gene expression in a model of chronic vascular stiffness. American Journal of Physiology - Heart and Circulatory Physiology, 2018, 315, H18-H32.	3.2	44
7	Albumin contributes to kidney disease progression in Alport syndrome. American Journal of Physiology - Renal Physiology, 2016, 311, F120-F130.	2.7	35
8	Chronic antihypertensive treatment improves pulse pressure but not large artery mechanics in a mouse model of congenital vascular stiffness. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H1008-H1016.	3.2	21
9	Skin findings in Williams syndrome. American Journal of Medical Genetics, Part A, 2014, 164, 2217-2225.	1.2	22
10	Williams Syndrome Predisposes to Vascular Stiffness Modified by Antihypertensive Use and Copy Number Changes in NCF1. Hypertension, 2014, 63, 74-79.	2.7	69
11	Altered reactivity of resistance vasculature contributes to hypertension in elastin insufficiency. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H654-H666.	3.2	32
12	Microfibril-associated Glycoprotein 2 (MAGP2) Loss of Function Has Pleiotropic Effects in Vivo. Journal of Biological Chemistry, 2013, 288, 28869-28880.	3.4	63
13	Hypotension Due to Kir6.1 Gainâ€ofâ€Function in Vascular Smooth Muscle. Journal of the American Heart Association, 2013, 2, e000365.	3.7	55
14	Alternative Splicing and Tissue-specific Elastin Misassembly Act as Biological Modifiers of Human Elastin Gene Frameshift Mutations Associated with Dominant Cutis Laxa. Journal of Biological Chemistry, 2012, 287, 22055-22067.	3.4	28
15	Pathogenesis of aortic dilatation in mucopolysaccharidosis VII mice may involve complement activation. Molecular Genetics and Metabolism, 2011, 104, 608-619.	1.1	44
16	Decreased aortic diameter and compliance precedes blood pressure increases in postnatal development of elastin-insufficient mice. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H221-H229.	3.2	70
17	Genetic Modifiers of Cardiovascular Phenotype Caused by Elastin Haploinsufficiency Act by Extrinsic Noncomplementation. Journal of Biological Chemistry, 2011, 286, 44926-44936.	3.4	34
18	The importance of elastin to aortic development in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H257-H264.	3.2	60

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19	Mechanisms of emphysema in autosomal dominant cutis laxa. Matrix Biology, 2010, 29, 621-628.	3.6	27
20	Reduced Vessel Elasticity Alters Cardiovascular Structure and Function in Newborn Mice. Circulation Research, 2009, 104, 1217-1224.	4.5	94
21	Discrete Contributions of Elastic Fiber Components to Arterial Development and Mechanical Compliance. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 2083-2089.	2.4	76
22	Upregulation of elastase proteins results in aortic dilatation in mucopolysaccharidosis I mice. Molecular Genetics and Metabolism, 2008, 94, 298-304.	1.1	50
23	Deficiency in Microfibril-associated Glycoprotein-1 Leads to Complex Phenotypes in Multiple Organ Systems. Journal of Biological Chemistry, 2008, 283, 25533-25543.	3.4	89
24	Smooth Muscle Protein 22Î±â€“Mediated Patchy Deletion of Bmpr1a Impairs Cardiac Contractility but Protects Against Pulmonary Vascular Remodeling. Circulation Research, 2008, 102, 380-388.	4.5	43
25	Elastin insufficiency predisposes to elevated pulmonary circulatory pressures through changes in elastic artery structure. Journal of Applied Physiology, 2008, 105, 1610-1619.	2.5	40
26	Elastin protein levels are a vital modifier affecting normal lung development and susceptibility to emphysema. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2007, 292, L778-L787.	2.9	84
27	Elastin-insufficient mice show normal cardiovascular remodeling in 2K1C hypertension despite higher baseline pressure and unique cardiovascular architecture. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H574-H582.	3.2	22
28	Functional Rescue of Elastin Insufficiency in Mice by the Human Elastin Gene. Circulation Research, 2007, 101, 523-531.	4.5	85
29	An Afferent Vagal Nerve Pathway Links Hepatic PPARÎ± Activation to Glucocorticoid-Induced Insulin Resistance and Hypertension. Cell Metabolism, 2007, 5, 91-102.	16.2	90
30	Increased Fibulin-5 and Elastin in S100A4/Mts1 Mice With Pulmonary Hypertension. Circulation Research, 2005, 97, 596-604.	4.5	87
31	Effects of elastin haploinsufficiency on the mechanical behavior of mouse arteries. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H1209-H1217.	3.2	160
32	Dexamethasone induction of hypertension and diabetes is PPAR-Î± dependent in LDL receptorâ€“null mice. Nature Medicine, 2003, 9, 1069-1075.	30.7	187
33	Hypertension and prolonged vasoconstrictor signaling in RGS2-deficient mice. Journal of Clinical Investigation, 2003, 111, 445-452.	8.2	254
34	Developmental adaptation of the mouse cardiovascular system to elastin haploinsufficiency. Journal of Clinical Investigation, 2003, 112, 1419-1428.	8.2	214