Rebecca Heise

List of Publications by Year
in descending order

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29 papers	815 citations	687363 13 h-index	610901 24 g-index
34 all docs	34 docs citations	34 times ranked	1216 citing authors

#	Article	IF	Citations
1	Synergistic effects of cyclic tension and transforming growth factor-Î²1 on the aortic valve myofibroblast. Cardiovascular Pathology, 2007, 16, 268-276.	1.6	152
2	Mechanical Stretch Induces Epithelial-Mesenchymal Transition in Alveolar Epithelia via Hyaluronan Activation of Innate Immunity. Journal of Biological Chemistry, 2011, 286, 17435-17444.	3.4	123
3	Development and characterization of a naturally derived lung extracellular matrix hydrogel. Journal of Biomedical Materials Research - Part A, 2016, 104, 1922-1935.	4.0	121
4	Porcine Lung-Derived Extracellular Matrix Hydrogel Properties Are Dependent on Pepsin Digestion Time. Tissue Engineering - Part C: Methods, 2020, 26, 332-346.	2.1	64
5	Electrospun Decellularized Lung Matrix Scaffold for Airway Smooth Muscle Culture. ACS Biomaterials Science and Engineering, 2017, 3, 3480-3492.	5.2	43
6	Aging effects on airflow dynamics and lung function in human bronchioles. PLoS ONE, 2017, 12, e0183654.	2.5	43
7	Ex vivo deformations of the urinary bladder wall during whole bladder filling: Contributions of extracellular matrix and smooth muscle. Journal of Biomechanics, 2010, 43, 1708-1716.	2.1	39
8	Mechanochemical Coupling and Junctional Forces during Collective Cell Migration. Biophysical Journal, 2019, 117, 170-183.	0.5	26
9	Tunable Hydrogels from Pulmonary Extracellular Matrix for 3D Cell Culture. Journal of Visualized Experiments, 2017, , .	0.3	24
10	Inflammation and Monocyte Recruitment Due to Aging and Mechanical Stretch in Alveolar Epithelium are Inhibited by the Molecular Chaperone 4-Phenylbutyrate. Cellular and Molecular Bioengineering, 2018, 11, 495-508.	2.1	21
11	Laminin-driven Epac/Rap1 regulation of epithelial barriers on decellularized matrix. Acta Biomaterialia, 2019, 100, 223-234.	8.3	21
12	Modeling the influence of acute changes in bladder elasticity on pressure and wall tension during filling. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 71, 192-200.	3.1	19
13	Conservative fluid management prevents age-associated ventilator induced mortality. Experimental Gerontology, 2016, 81, 101-109.	2.8	17
14	The role of MMP-I up-regulation in the increased compliance in muscle-derived stem cell-seeded small intestinal submucosa. Biomaterials, 2006, 27, 2398-2404.	11.4	14
15	Electrosprayed extracellular matrix nanoparticles induce a proâ€regenerative cell response. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 2331-2336.	2.7	13
16	Bronchial epithelial injury in the context of alloimmunity promotes lymphocytic bronchiolitis through hyaluronan expression. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 306, L1045-L1055.	2.9	12
17	Strain history and TGF-Î²1 induce urinary bladder wall smooth muscle remodeling and elastogenesis. Biomechanics and Modeling in Mechanobiology, 2012, 11, 131-145.	2.8	11
18	Excipient Enhanced Growth Aerosol Surfactant Replacement Therapy in an In Vivo Rat Lung Injury Model. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2020, 33, 314-322.	1.4	9

#	Article	IF	Citations
19	From Here to There, Progenitor Cells and Stem Cells Are Everywhere in Lung Vascular Remodeling. Frontiers in Pediatrics, 2016, 4, 80.	1.9	8
20	Advanced Glycation End Products Are Retained in Decellularized Muscle Matrix Derived from Aged Skeletal Muscle. International Journal of Molecular Sciences, 2021, 22, 8832.	4.1	8
21	Quantification of Ageâ€Related Lung Tissue Mechanics under Mechanical Ventilation. Medical Sciences (Basel, Switzerland), 2017, 5, 21.	2.9	7
22	Mathematical modeling of ventilator-induced lung inflammation. Journal of Theoretical Biology, 2021, 526, 110738.	1.7	7
23	A novel role for primary cilia in airway remodeling. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 313, L328-L338.	2.9	5
24	A Two-Step Bioreactor for Decellularized Lung Epithelialization. Cells Tissues Organs, 2021, 210, 301-310.	2.3	5
25	Cellular mitosis predicts vessel stability in a mechanochemical model of sprouting angiogenesis. Biomechanics and Modeling in Mechanobiology, 2021, 20, 1195-1208.	2.8	1
26	Hyaluronan Causes Sustained Human Airway Myocyte Contraction. , 2010, , .		0
27	Blockade Of Hyaluronan Binding Abolishes Airway Hyperresponsiveness In Mouse Asthma Models. , 2010, , .		0
28	Mechanotransduction of Primary Cilia in Lung Adenocarcinoma. , 2012, , .		0
29	Investigating Laminâ€Î±3Î²3Î³2's Potential Role in Epithelialâ€toâ€Mesenchymal Transition in Pulmonary Epithelia. FASEB Journal, 2015, 29, 719.17.	0.5	0