

Rebecca Heise

List of Publications by Year in descending order

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29
papers

815
citations

687363

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34
all docs

34
docs citations

34
times ranked

1216
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular mitosis predicts vessel stability in a mechanochemical model of sprouting angiogenesis. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021, 20, 1195-1208.	2.8	1
2	Advanced Glycation End Products Are Retained in Decellularized Muscle Matrix Derived from Aged Skeletal Muscle. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8832.	4.1	8
3	A Two-Step Bioreactor for Decellularized Lung Epithelialization. <i>Cells Tissues Organs</i> , 2021, 210, 301-310.	2.3	5
4	Mathematical modeling of ventilator-induced lung inflammation. <i>Journal of Theoretical Biology</i> , 2021, 526, 110738.	1.7	7
5	Porcine Lung-Derived Extracellular Matrix Hydrogel Properties Are Dependent on Pepsin Digestion Time. <i>Tissue Engineering - Part C: Methods</i> , 2020, 26, 332-346.	2.1	64
6	Excipient Enhanced Growth Aerosol Surfactant Replacement Therapy in an <i>In Vivo</i> Rat Lung Injury Model. <i>Journal of Aerosol Medicine and Pulmonary Drug Delivery</i> , 2020, 33, 314-322.	1.4	9
7	Laminin-driven Epac/Rap1 regulation of epithelial barriers on decellularized matrix. <i>Acta Biomaterialia</i> , 2019, 100, 223-234.	8.3	21
8	Mechanochemical Coupling and Junctional Forces during Collective Cell Migration. <i>Biophysical Journal</i> , 2019, 117, 170-183.	0.5	26
9	Electrosprayed extracellular matrix nanoparticles induce a pro-regenerative cell response. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, 2331-2336.	2.7	13
10	Inflammation and Monocyte Recruitment Due to Aging and Mechanical Stretch in Alveolar Epithelium are Inhibited by the Molecular Chaperone 4-Phenylbutyrate. <i>Cellular and Molecular Bioengineering</i> , 2018, 11, 495-508.	2.1	21
11	Modeling the influence of acute changes in bladder elasticity on pressure and wall tension during filling. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 71, 192-200.	3.1	19
12	A novel role for primary cilia in airway remodeling. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 313, L328-L338.	2.9	5
13	Tunable Hydrogels from Pulmonary Extracellular Matrix for 3D Cell Culture. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	24
14	Electrospun Decellularized Lung Matrix Scaffold for Airway Smooth Muscle Culture. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 3480-3492.	5.2	43
15	Quantification of Age-Related Lung Tissue Mechanics under Mechanical Ventilation. <i>Medical Sciences (Basel, Switzerland)</i> , 2017, 5, 21.	2.9	7
16	Aging effects on airflow dynamics and lung function in human bronchioles. <i>PLoS ONE</i> , 2017, 12, e0183654.	2.5	43
17	From Here to There, Progenitor Cells and Stem Cells Are Everywhere in Lung Vascular Remodeling. <i>Frontiers in Pediatrics</i> , 2016, 4, 80.	1.9	8
18	Development and characterization of a naturally derived lung extracellular matrix hydrogel. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 1922-1935.	4.0	121

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19	Conservative fluid management prevents age-associated ventilator induced mortality. <i>Experimental Gerontology</i> , 2016, 81, 101-109.	2.8	17
20	Investigating Laminin's Potential Role in Epithelial-to-Mesenchymal Transition in Pulmonary Epithelia. <i>FASEB Journal</i> , 2015, 29, 719.17.	0.5	0
21	Bronchial epithelial injury in the context of alloimmunity promotes lymphocytic bronchiolitis through hyaluronan expression. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 306, L1045-L1055.	2.9	12
22	Mechanotransduction of Primary Cilia in Lung Adenocarcinoma. , 2012, , .		0
23	Strain history and TGF- β 1 induce urinary bladder wall smooth muscle remodeling and elastogenesis. <i>Biomechanics and Modeling in Mechanobiology</i> , 2012, 11, 131-145.	2.8	11
24	Mechanical Stretch Induces Epithelial-Mesenchymal Transition in Alveolar Epithelia via Hyaluronan Activation of Innate Immunity. <i>Journal of Biological Chemistry</i> , 2011, 286, 17435-17444.	3.4	123
25	Ex vivo deformations of the urinary bladder wall during whole bladder filling: Contributions of extracellular matrix and smooth muscle. <i>Journal of Biomechanics</i> , 2010, 43, 1708-1716.	2.1	39
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	Synergistic effects of cyclic tension and transforming growth factor- β 1 on the aortic valve myofibroblast. <i>Cardiovascular Pathology</i> , 2007, 16, 268-276.	1.6	152
29	The role of MMP-1 up-regulation in the increased compliance in muscle-derived stem cell-seeded small intestinal submucosa. <i>Biomaterials</i> , 2006, 27, 2398-2404.	11.4	14