

Virender K Rehan

List of Publications by Year in descending order

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83
papers

2,992
citations

101496

36
h-index

175177

52
g-index

122
all docs

122
docs citations

122
times ranked

2928
citing authors

#	ARTICLE	IF	CITATIONS
1	Perinatal Exposure to Nicotine Alters Sperm RNA Profiles in Rats. <i>Frontiers in Endocrinology</i> , 2022, 13, .	1.5	1
2	Effect of electroacupuncture at ST 36 on maternal food restriction-induced lung phenotype in rat offspring. <i>Pediatric Pulmonology</i> , 2021, 56, 2537-2545.	1.0	1
3	Effect of Perinatal Vitamin D Deficiency on Lung Mesenchymal Stem Cell Differentiation and Injury Repair Potential. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2021, 65, 521-531.	1.4	5
4	Perinatal exposure to nicotine alters spermatozoal DNA methylation near genes controlling nicotine action. <i>FASEB Journal</i> , 2021, 35, e21702.	0.2	11
5	Maternal food restriction-induced intrauterine growth restriction in a rat model leads to sex-specific adipogenic programming. <i>FASEB Journal</i> , 2020, 34, 16073-16085.	0.2	9
6	Inhaled vitamin A is more effective than intramuscular dosing in mitigating hyperoxia-induced lung injury in a neonatal rat model of bronchopulmonary dysplasia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 319, L576-L584.	1.3	12
7	Prenatal Exposure to Electronic-Cigarette Aerosols Leads to Sex-Dependent Pulmonary Extracellular-Matrix Remodeling and Myogenesis in Offspring Mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 63, 794-805.	1.4	22
8	Perinatal nicotine exposure-induced transgenerational asthma: Effects of reexposure in F1 gestation. <i>FASEB Journal</i> , 2020, 34, 11444-11459.	0.2	11
9	Mechanism underlying increased cardiac extracellular matrix deposition in perinatal nicotine-exposed offspring. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 319, H651-H660.	1.5	12
10	Developmental Timing Determines the Protective Effect of Maternal Electroacupuncture on Perinatal Nicotine Exposure-Induced Offspring Lung Phenotype. <i>BioMed Research International</i> , 2020, 2020, 1-10.	0.9	4
11	Antenatal PPAR- γ agonist pioglitazone stimulates fetal lung maturation equally in males and females. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 319, L435-L443.	1.3	6
12	Early-life Tobacco Smoke/Nicotine Exposure and Offspring Health. , 2020, , 23-50.		1
13	Dietary Fiber-Induced Microbial Short Chain Fatty Acids Suppress ILC2-Dependent Airway Inflammation. <i>Frontiers in Immunology</i> , 2019, 10, 2051.	2.2	90
14	Response to Jaeggi's J.S. Torday, N.W. Blackstone and V.K. Rehan, a cell-centered alternative to mainstream evolutionary medicine?. <i>Evolution, Medicine and Public Health</i> , 2019, 2019, 181-182.	1.1	0
15	Dysregulated repair and inflammatory responses by e-cigarette-derived inhaled nicotine and humectant propylene glycol in a sex-dependent manner in mouse lung. <i>FASEB BioAdvances</i> , 2019, 1, 609-623.	1.3	49
16	The impact of perinatal nicotine exposure on fetal lung development and subsequent respiratory morbidity. <i>Birth Defects Research</i> , 2019, 111, 1270-1283.	0.8	21
17	Diagnosis of congenital/perinatal infections by neonatologists: a national survey. <i>Journal of Perinatology</i> , 2019, 39, 690-696.	0.9	12
18	Costimulation of type-2 innate lymphoid cells by G1TR promotes effector function and ameliorates type 2 diabetes. <i>Nature Communications</i> , 2019, 10, 713.	5.8	58

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19	Recent Advances in Bronchopulmonary Dysplasia: Pathophysiology, Prevention, and Treatment. <i>Lung</i> , 2018, 196, 129-138.	1.4	113
20	A Combination of the Aerosolized PPAR- δ Agonist Pioglitazone and a Synthetic Surfactant Protein B Peptide Mimic Prevents Hyperoxia-Induced Neonatal Lung Injury in Rats. <i>Neonatology</i> , 2018, 113, 296-304.	0.9	19
21	Protective effect of electro-acupuncture at maternal different points on perinatal nicotine exposure-induced pulmonary dysplasia in offspring based on HPA axis and signal transduction pathway. <i>Biochemical and Biophysical Research Communications</i> , 2018, 505, 586-592.	1.0	17
22	Prevention of perinatal nicotine-induced bone marrow mesenchymal stem cell myofibroblast differentiation by augmenting the lipofibroblast phenotype. <i>Clinical Science</i> , 2018, 132, 2357-2368.	1.8	6
23	Role of miR-29 in mediating offspring lung phenotype in a rodent model of intrauterine growth restriction. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 315, R1017-R1026.	0.9	13
24	Perinatal nicotine exposure induces myogenic differentiation, but not epithelial-mesenchymal transition in rat offspring lung. <i>Pediatric Pulmonology</i> , 2016, 51, 1142-1150.	1.0	8
25	Impaired Lung Mitochondrial Respiration Following Perinatal Nicotine Exposure in Rats. <i>Lung</i> , 2016, 194, 325-328.	1.4	4
26	Anti-inflammatory Agents for the Prevention of Bronchopulmonary Dysplasia. <i>Respiratory Medicine</i> , 2016, , 325-344.	0.1	1
27	Bone marrow mesenchymal stem cells of the intrauterine growth-restricted rat offspring exhibit enhanced adipogenic phenotype. <i>International Journal of Obesity</i> , 2016, 40, 1768-1775.	1.6	15
28	Inhaled Vitamin D: A Novel Strategy to Enhance Neonatal Lung Maturation. <i>Lung</i> , 2016, 194, 931-943.	1.4	19
29	Effect of Maternal Electroacupuncture on Perinatal Nicotine Exposure-Induced Lung Phenotype in Offspring. <i>Lung</i> , 2016, 194, 535-546.	1.4	13
30	On the evolution of the pulmonary alveolar lipofibroblast. <i>Experimental Cell Research</i> , 2016, 340, 215-219.	1.2	44
31	In utero nicotine exposure epigenetically alters fetal chromatin structure and differentially regulates transcription of the glucocorticoid receptor in a rat model. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2015, 103, 583-588.	1.6	25
32	PPAR- δ agonist rosiglitazone reverses perinatal nicotine exposure-induced asthma in rat offspring. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 308, L788-L796.	1.3	24
33	Evidence for the involvement of Fibroblast Growth Factor 10 in lipofibroblast formation during embryonic lung development. <i>Development (Cambridge)</i> , 2015, 142, 4139-50.	1.2	100
34	Metyrapone Alleviates Deleterious Effects of Maternal Food Restriction on Lung Development and Growth of Rat Offspring. <i>Reproductive Sciences</i> , 2015, 22, 207-222.	1.1	13
35	Nebulized PPAR- δ agonists: a novel approach to augment neonatal lung maturation and injury repair in rats. <i>Pediatric Research</i> , 2014, 75, 631-640.	1.1	28
36	The Lung Alveolar Lipofibroblast: An Evolutionary Strategy Against Neonatal Hyperoxic Lung Injury. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 1893-1904.	2.5	50

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37	Metyrapone Blocks Maternal Food Restriction-Induced Changes in Female Rat Offspring Lung Development. <i>Reproductive Sciences</i> , 2014, 21, 517-525.	1.1	11
38	Vitamin D supplementation blocks pulmonary structural and functional changes in a rat model of perinatal vitamin D deficiency. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 307, L859-L867.	1.3	55
39	An epigenetic "smoking gun" for reproductive inheritance. <i>Expert Review of Obstetrics and Gynecology</i> , 2013, 8, 99-101.	0.4	2
40	Sex-Specific Perinatal Nicotine-Induced Asthma in Rat Offspring. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013, 48, 53-62.	1.4	28
41	Thirdhand smoke causes DNA damage in human cells. <i>Mutagenesis</i> , 2013, 28, 381-391.	1.0	131
42	Perinatal nicotine-induced transgenerational asthma. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013, 305, L501-L507.	1.3	92
43	Prenatal Rosiglitazone Administration to Neonatal Rat Pups Does Not Alter the Adult Metabolic Phenotype. <i>PPAR Research</i> , 2012, 2012, 1-8.	1.1	4
44	PPAR γ Signaling Mediates the Evolution, Development, Homeostasis, and Repair of the Lung. <i>PPAR Research</i> , 2012, 2012, 1-8.	1.1	64
45	Postnatal Rosiglitazone Administration to Neonatal Rat Pups Does Not Alter the Young Adult Metabolic Phenotype. <i>Neonatology</i> , 2012, 101, 217-224.	0.9	7
46	Vitamin D and Lung Development in Early Life. , 2012, , 41-57.		0
47	Perinatal nicotine exposure induces asthma in second generation offspring. <i>BMC Medicine</i> , 2012, 10, 129.	2.3	142
48	Effects of maternal food restriction on offspring lung extracellular matrix deposition and long term pulmonary function in an experimental rat model. <i>Pediatric Pulmonology</i> , 2012, 47, 162-171.	1.0	34
49	Perinatal Vitamin D Deficiency and Childhood Asthma: A Molecular Perspective. <i>Current Respiratory Medicine Reviews</i> , 2011, 7, 404-407.	0.1	2
50	A potential role of the JNK pathway in hyperoxia-induced cell death, myofibroblast transdifferentiation and TGF- β 1-mediated injury in the developing murine lung. <i>BMC Cell Biology</i> , 2011, 12, 54.	3.0	37
51	Neutral lipid trafficking regulates alveolar type II cell surfactant phospholipid and surfactant protein expression. <i>Experimental Lung Research</i> , 2011, 37, 376-386.	0.5	31
52	Mechanism of Reduced Lung Injury by High-Frequency Nasal Ventilation in a Preterm Lamb Model of Neonatal Chronic Lung Disease. <i>Pediatric Research</i> , 2011, 70, 462-466.	1.1	53
53	Why Conventional Exhaled Breath Condensate pH Studies Cannot Provide Reliable Estimates of Airway Acidification. <i>Chest</i> , 2011, 140, 1099.	0.4	3
54	Hypoxia-induced inhibition of lung development is attenuated by the peroxisome proliferator-activated receptor- γ agonist rosiglitazone. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2011, 301, L125-L134.	1.3	50

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55	PPAR $\hat{1}$ β agonist rosiglitazone prevents perinatal nicotine exposure-induced asthma in rat offspring. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 300, L710-L717.	1.3	46
56	Mechanism for nicotine-induced up-regulation of Wnt signaling in human alveolar interstitial fibroblasts. Experimental Lung Research, 2011, 37, 144-154.	0.5	44
57	Thirdhand smoke: a new dimension to the effects of cigarette smoke on the developing lung. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 301, L1-L8.	1.3	56
58	Curcumin augments lung maturation, preventing neonatal lung injury by inhibiting TGF- $\hat{1}$ β signaling. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 301, L721-L730.	1.3	39
59	Late preterm births: Epidemiology, possible causes, and consequences. Journal of Neonatal-Perinatal Medicine, 2010, 3, 259-269.	0.4	0
60	Antenatally administered PPAR $\hat{1}$ β agonist rosiglitazone prevents hyperoxia-induced neonatal rat lung injury. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2010, 299, L672-L680.	1.3	42
61	Evidence for in vivo nicotine-induced alveolar interstitial fibroblast-to-myofibroblast transdifferentiation. Experimental Lung Research, 2010, 36, 390-398.	0.5	40
62	Peroxisome Proliferator-Activated Receptor $\hat{1}$ β Agonists Enhance Lung Maturation in a Neonatal Rat Model. Pediatric Research, 2009, 65, 150-155.	1.1	44
63	Hyperoxia-induced neonatal rat lung injury involves activation of TGF- $\hat{1}$ β and Wnt signaling and is protected by rosiglitazone. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 296, L1031-L1041.	1.3	124
64	The Effects of Smoking on the Developing Lung: Insights from a Biologic Model for Lung Development, Homeostasis, and Repair. Lung, 2009, 187, 281-289.	1.4	85
65	Effect of maternal food restriction on fetal rat lung lipid differentiation program. Pediatric Pulmonology, 2009, 44, 635-644.	1.0	45
66	Prevention and Treatment of Bronchopulmonary Dysplasia: Contemporary Status and Future Outlook. Lung, 2008, 186, 75-89.	1.4	54
67	Compartmentalization of stearyl-coenzyme A desaturase 1 activity in HepG2 cells. Journal of Lipid Research, 2008, 49, 2124-2134.	2.0	31
68	In utero nicotine exposure alters fetal rat lung alveolar type II cell proliferation, differentiation, and metabolism. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2007, 292, L323-L333.	1.3	70
69	Developmental Cell/Molecular Biologic Approach to the Etiology and Treatment of Bronchopulmonary Dysplasia. Pediatric Research, 2007, 62, 2-7.	1.1	62
70	Deconvoluting lung evolution: from phenotypes to gene regulatory networks. Integrative and Comparative Biology, 2007, 47, 601-609.	0.9	18
71	A paradoxical temporal response of the PTHrP/PPAR $\hat{1}$ β signaling pathway to lipopolysaccharide in an in vitro model of the developing rat lung. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2007, 293, L182-L190.	1.3	21
72	Reversal of Nicotine-Induced Alveolar Lipofibroblast-to-Myofibroblast Transdifferentiation by Stimulants of Parathyroid Hormone-Related Protein Signaling. Lung, 2007, 185, 151-159.	1.4	44

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73	Exploiting the PTHrP signaling pathway to treat chronic lung disease. <i>Drugs of Today</i> , 2007, 43, 317.	0.7	12
74	Rosiglitazone, a peroxisome proliferator-activated receptor- β agonist, prevents hyperoxia-induced neonatal rat lung injury in vivo. <i>Pediatric Pulmonology</i> , 2006, 41, 558-569.	1.0	72
75	Prevention of bronchopulmonary dysplasia: Finally, something that works. <i>Indian Journal of Pediatrics</i> , 2006, 73, 1027-1032.	0.3	3
76	Up-Regulation of Fetal Rat Lung Parathyroid Hormone-Related Protein Gene Regulatory Network Down-Regulates the Sonic Hedgehog/Wnt/ β -catenin Gene Regulatory Network. <i>Pediatric Research</i> , 2006, 60, 382-388.	1.1	40
77	Lower Parathyroid Hormone-Related Protein Content of Tracheal Aspirates in Very Low Birth Weight Infants Who Develop Bronchopulmonary Dysplasia. <i>Pediatric Research</i> , 2006, 60, 216-220.	1.1	24
78	EVIDENCE FOR THE PRESENCE OF LIPOFIBROBLASTS IN HUMAN LUNG. <i>Experimental Lung Research</i> , 2006, 32, 379-393.	0.5	84
79	Mechanism of nicotine-induced pulmonary fibroblast transdifferentiation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005, 289, L667-L676.	1.3	65
80	Deconvoluting Lung Evolution Using Functional/Comparative Genomics. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2004, 31, 8-12.	1.4	52
81	Outcome of Very-Low-Birth-Weight (<1,500 Grams) Infants Born to Mothers with Diabetes. <i>Clinical Pediatrics</i> , 2002, 41, 481-491.	0.4	26
82	1 α ,25-Dihydroxy-3-epi-vitamin D3, a natural metabolite of 1 α ,25-dihydroxy vitamin D3: production and biological activity studies in pulmonary alveolar type II cells. <i>Molecular Genetics and Metabolism</i> , 2002, 76, 46-56.	0.5	115
83	Oxygen-induced metabolic changes and transdifferentiation in immature fetal rat lung lipofibroblasts. <i>Molecular Genetics and Metabolism</i> , 2002, 77, 230-236.	0.5	37