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 nicotine exposure induces asthma in second generation offspring. BMC Medicine, 2012, 10, 129.	2.3	142
2	Thirdhand smoke causes DNA damage in human cells. Mutagenesis, 2013, 28, 381-391.	1.0	131
3	Hyperoxia-induced neonatal rat lung injury involves activation of TGF-Î² and Wnt signaling and is protected by rosiglitazone. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 296, L1031-L1041.	1.3	124
4	1Î±,25-Dihydroxy-3-epi-vitamin D3, a natural metabolite of 1Î±,25-dihydroxy vitamin D3: production and biological activity studies in pulmonary alveolar type II cells. Molecular Genetics and Metabolism, 2002, 76, 46-56.	0.5	115
5	Recent Advances in Bronchopulmonary Dysplasia: Pathophysiology, Prevention, and Treatment. Lung, 2018, 196, 129-138.	1.4	113
6	Evidence for the involvement of Fibroblast Growth Factor 10 in lipofibroblast formation during embryonic lung development. Development (Cambridge), 2015, 142, 4139-50.	1.2	100
7	Perinatal nicotine-induced transgenerational asthma. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2013, 305, L501-L507.	1.3	92
8	Dietary Fiber-Induced Microbial Short Chain Fatty Acids Suppress ILC2-Dependent Airway Inflammation. Frontiers in Immunology, 2019, 10, 2051.	2.2	90
9	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
10	EVIDENCE FOR THE PRESENCE OF LIPOFIBROBLASTS IN HUMAN LUNG. Experimental Lung Research, 2006, 32, 379-393.	0.5	84
11	Rosiglitazone, a peroxisome proliferator-activated receptor-Î³ agonist, prevents hyperoxia-induced neonatal rat lung injury in vivo. Pediatric Pulmonology, 2006, 41, 558-569.	1.0	72
12	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
13	Mechanism of nicotine-induced pulmonary fibroblast transdifferentiation. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2005, 289, L667-L676.	1.3	65
14	PPARÎ³Signaling Mediates the Evolution, Development, Homeostasis, and Repair of the Lung. PPAR Research, 2012, 2012, 1-8.	1.1	64
15	Developmental Cell/Molecular Biologic Approach to the Etiology and Treatment of Bronchopulmonary Dysplasia. Pediatric Research, 2007, 62, 2-7.	1.1	62
16	Costimulation of type-2 innate lymphoid cells by GITR promotes effector function and ameliorates type 2 diabetes. Nature Communications, 2019, 10, 713.	5.8	58
17	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
18	Vitamin D supplementation blocks pulmonary structural and functional changes in a rat model of perinatal vitamin D deficiency. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 307, L859-L867.	1.3	55

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19	Prevention and Treatment of Bronchopulmonary Dysplasia: Contemporary Status and Future Outlook. Lung, 2008, 186, 75-89.	1.4	54
20	Mechanism of Reduced Lung Injury by High-Frequency Nasal Ventilation in a Preterm Lamb Model of Neonatal Chronic Lung Disease. Pediatric Research, 2011, 70, 462-466.	1.1	53
21	Deconvoluting Lung Evolution Using Functional/Comparative Genomics. American Journal of Respiratory Cell and Molecular Biology, 2004, 31, 8-12.	1.4	52
22	Hypoxia-induced inhibition of lung development is attenuated by the peroxisome proliferator-activated receptor-Î³ agonist rosiglitazone. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 301, L125-L134.	1.3	50
23	The Lung Alveolar Lipofibroblast: An Evolutionary Strategy Against Neonatal Hyperoxic Lung Injury. Antioxidants and Redox Signaling, 2014, 21, 1893-1904.	2.5	50
24	Dysregulated repair and inflammatory responses by eâ€cigaretteâ€derived inhaled nicotine and humectant propylene glycol in a sexâ€dependent manner in mouse lung. FASEB BioAdvances, 2019, 1, 609-623.	1.3	49
25	PPARÎ³ 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
26	Effect of maternal food restriction on fetal rat lung lipid differentiation program. Pediatric Pulmonology, 2009, 44, 635-644.	1.0	45
27	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
28	Peroxisome Proliferator-Activated Receptor Î³ Agonists Enhance Lung Maturation in a Neonatal Rat Model. Pediatric Research, 2009, 65, 150-155.	1.1	44
29	Mechanism for nicotine-induced up-regulation of Wnt signaling in human alveolar interstitial fibroblasts. Experimental Lung Research, 2011, 37, 144-154.	0.5	44
30	On the evolution of the pulmonary alveolar lipofibroblast. Experimental Cell Research, 2016, 340, 215-219.	1.2	44
31	Antenatally administered PPAR-Î³ 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
32	Up-Regulation of Fetal Rat Lung Parathyroid Hormone-Related Protein Gene Regulatory Network Down-Regulates the Sonic Hedgehog/Wnt/Î²catenin Gene Regulatory Network. Pediatric Research, 2006, 60, 382-388.	1.1	40
33	Evidence for in vivo nicotine-induced alveolar interstitial fibroblast-to-myofibroblast transdifferentiation. Experimental Lung Research, 2010, 36, 390-398.	0.5	40
34	Curcumin augments lung maturation, preventing neonatal lung injury by inhibiting TGF-Î² signaling. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 301, L721-L730.	1.3	39
35	Oxygen-induced metabolic changes and transdifferentiation in immature fetal rat lung lipofibroblasts. Molecular Genetics and Metabolism, 2002, 77, 230-236.	0.5	37
36	A potential role of the JNK pathway in hyperoxia-induced cell death, myofibroblast transdifferentiation and TGF-Î²1-mediated injury in the developing murine lung. BMC Cell Biology, 2011, 12, 54.	3.0	37

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37	Effects of maternal food restriction on offspring lung extracellular matrix deposition and long term pulmonary function in an experimental rat model. Pediatric Pulmonology, 2012, 47, 162-171.	1.0	34
38	Compartmentalization of stearoyl-coenzyme A desaturase 1 activity in HepG2 cells. Journal of Lipid Research, 2008, 49, 2124-2134.	2.0	31
39	Neutral lipid trafficking regulates alveolar type II cell surfactant phospholipid and surfactant protein expression. Experimental Lung Research, 2011, 37, 376-386.	0.5	31
40	Sex-Specific Perinatal Nicotine-Induced Asthma in Rat Offspring. American Journal of Respiratory Cell and Molecular Biology, 2013, 48, 53-62.	1.4	28
41	Nebulized PPARÎ³ agonists: a novel approach to augment neonatal lung maturation and injury repair in rats. Pediatric Research, 2014, 75, 631-640.	1.1	28
42	Outcome of Very-Low-Birth-Weight (<1,500 Grams) Infants Born to Mothers with Diabetes. Clinical Pediatrics, 2002, 41, 481-491.	0.4	26
43	In utero nicotine exposure epigenetically alters fetal chromatin structure and differentially regulates transcription of the glucocorticoid receptor in a rat model. Birth Defects Research Part A: Clinical and Molecular Teratology, 2015, 103, 583-588.	1.6	25
44	Lower Parathyroid Hormone-Related Protein Content of Tracheal Aspirates in Very Low Birth Weight Infants Who Develop Bronchopulmonary Dysplasia. Pediatric Research, 2006, 60, 216-220.	1.1	24
45	PPAR-Î³ agonist rosiglitazone reverses perinatal nicotine exposure-induced asthma in rat offspring. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 308, L788-L796.	1.3	24
46	Prenatal Exposure to Electronic-Cigarette Aerosols Leads to Sex-Dependent Pulmonary Extracellular-Matrix Remodeling and Myogenesis in Offspring Mice. American Journal of Respiratory Cell and Molecular Biology, 2020, 63, 794-805.	1.4	22
47	A paradoxical temporal response of the PTHrP/PPARÎ³ 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
48	The impact of perinatal nicotine exposure on fetal lung development and subsequent respiratory morbidity. Birth Defects Research, 2019, 111, 1270-1283.	0.8	21
49	Inhaled Vitamin D: A Novel Strategy to Enhance Neonatal Lung Maturation. Lung, 2016, 194, 931-943.	1.4	19
50	A Combination of the Aerosolized PPAR-Î³ Agonist Pioglitazone and a Synthetic Surfactant Protein B Peptide Mimic Prevents Hyperoxia-Induced Neonatal Lung Injury in Rats. Neonatology, 2018, 113, 296-304.	0.9	19
51	Deconvoluting lung evolution: from phenotypes to gene regulatory networks. Integrative and Comparative Biology, 2007, 47, 601-609.	0.9	18
52	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. Biochemical and Biophysical Research Communications, 2018, 505, 586-592.	1.0	17
53	Bone marrow mesenchymal stem cells of the intrauterine growth-restricted rat offspring exhibit enhanced adipogenic phenotype. International Journal of Obesity, 2016, 40, 1768-1775.	1.6	15
54	Metyrapone Alleviates Deleterious Effects of Maternal Food Restriction on Lung Development and Growth of Rat Offspring. Reproductive Sciences, 2015, 22, 207-222.	1.1	13

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55	Effect of Maternal Electroacupuncture on Perinatal Nicotine Exposure-Induced Lung Phenotype in Offspring. Lung, 2016, 194, 535-546.	1.4	13
56	Role of miR-29 in mediating offspring lung phenotype in a rodent model of intrauterine growth restriction. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 315, R1017-R1026.	0.9	13
57	Diagnosis of congenital/perinatal infections by neonatologists: a national survey. Journal of Perinatology, 2019, 39, 690-696.	0.9	12
58	Inhaled vitamin A is more effective than intramuscular dosing in mitigating hyperoxia-induced lung injury in a neonatal rat model of bronchopulmonary dysplasia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 319, L576-L584.	1.3	12
59	Mechanism underlying increased cardiac extracellular matrix deposition in perinatal nicotine-exposed offspring. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 319, H651-H660.	1.5	12
60	Exploiting the PTHrP signaling pathway to treat chronic lung disease. Drugs of Today, 2007, 43, 317.	0.7	12
61	Metyrapone Blocks Maternal Food Restriction-Induced Changes in Female Rat Offspring Lung Development. Reproductive Sciences, 2014, 21, 517-525.	1.1	11
62	Perinatal nicotine exposureâ€induced transgenerational asthma: Effects of reexposure in F1 gestation. FASEB Journal, 2020, 34, 11444-11459.	0.2	11
63	Perinatal exposure to nicotine alters spermatozoal DNA methylation near genes controlling nicotine action. FASEB Journal, 2021, 35, e21702.	0.2	11
64	Maternal food restrictionâ€induced intrauterine growth restriction in a rat model leads to sexâ€specific adipogenic programming. FASEB Journal, 2020, 34, 16073-16085.	0.2	9
65	Perinatal nicotine exposure induces myogenic differentiation, but not epithelial-mesenchymal transition in rat offspring lung. Pediatric Pulmonology, 2016, 51, 1142-1150.	1.0	8
66	Postnatal Rosiglitazone Administration to Neonatal Rat Pups Does Not Alter the Young Adult Metabolic Phenotype. Neonatology, 2012, 101, 217-224.	0.9	7
67	Prevention of perinatal nicotine-induced bone marrow mesenchymal stem cell myofibroblast differentiation by augmenting the lipofibroblast phenotype. Clinical Science, 2018, 132, 2357-2368.	1.8	6
68	Antenatal PPAR-Î³ agonist pioglitazone stimulates fetal lung maturation equally in males and females. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 319, L435-L443.	1.3	6
69	Effect of Perinatal Vitamin D Deficiency on Lung Mesenchymal Stem Cell Differentiation and Injury Repair Potential. American Journal of Respiratory Cell and Molecular Biology, 2021, 65, 521-531.	1.4	5
70	Prenatal Rosiglitazone Administration to Neonatal Rat Pups Does Not Alter the Adult Metabolic Phenotype. PPAR Research, 2012, 2012, 1-8.	1.1	4
71	Impaired Lung Mitochondrial Respiration Following Perinatal Nicotine Exposure in Rats. Lung, 2016, 194, 325-328.	1.4	4
72	Developmental Timing Determines the Protective Effect of Maternal Electroacupuncture on Perinatal Nicotine Exposure-Induced Offspring Lung Phenotype. BioMed Research International, 2020, 2020, 1-10.	0.9	4

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73	Prevention of bronchopulmonary dysplasia: Finally, something that works. Indian Journal of Pediatrics, 2006, 73, 1027-1032.	0.3	3
74	Why Conventional Exhaled Breath Condensate pH Studies Cannot Provide Reliable Estimates of Airway Acidification. Chest, 2011, 140, 1099.	0.4	3
75	Perinatal Vitamin D Deficiency and Childhood Asthma: A Molecular Perspective. Current Respiratory Medicine Reviews, 2011, 7, 404-407.	0.1	2
76	An epigenetic â€˜smoking gunâ€™ for reproductive inheritance. Expert Review of Obstetrics and Gynecology, 2013, 8, 99-101.	0.4	2
77	Anti-inflammatory Agents for the Prevention of Bronchopulmonary Dysplasia. Respiratory Medicine, 2016, , 325-344.	0.1	1
78	Effect of electroâ€acupuncture at ST 36 on maternal food restrictionâ€induced lung phenotype in rat offspring. Pediatric Pulmonology, 2021, 56, 2537-2545.	1.0	1
79	Early-life Tobacco Smoke/Nicotine Exposure and Offspring Health. , 2020, , 23-50.		1
80	Perinatal Exposure to Nicotine Alters Sperm RNA Profiles in Rats. Frontiers in Endocrinology, 2022, 13, .	1.5	1
81	Late preterm births: Epidemiology, possible causes, and consequences. Journal of Neonatal-Perinatal Medicine, 2010, 3, 259-269.	0.4	0
82	Vitamin D and Lung Development in Early Life. , 2012, , 41-57.		0
83	Response to Jaeggiâ€™s J.S. Torday, N.W. Blackstone and V.K. Rehan, a cell-centered alternative to mainstream evolutionary medicine?. Evolution, Medicine and Public Health, 2019, 2019, 181-182.	1.1	0