

# Robbert J Rottier

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

2,449  
citations

218381

26  
h-index

214527

47  
g-index

67  
all docs

67  
docs citations

67  
times ranked

3612  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sox2 is important for two crucial processes in lung development: Branching morphogenesis and epithelial cell differentiation. <i>Developmental Biology</i> , 2008, 317, 296-309.	0.9	236
2	Sox2 cooperates with Chd7 to regulate genes that are mutated in human syndromes. <i>Nature Genetics</i> , 2011, 43, 607-611.	9.4	230
3	Distal angiogenesis: a new concept for lung vascular morphogenesis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005, 288, L141-L149.	1.3	121
4	SARS-CoV-2 entry into human airway organoids is serine protease-mediated and facilitated by the multibasic cleavage site. <i>ELife</i> , 2021, 10, .	2.8	115
5	Congenital lung lesions” underlying molecular mechanisms. <i>Seminars in Pediatric Surgery</i> , 2010, 19, 171-179.	0.5	101
6	Ectopic Expression of Activated Notch or SOX2 Reveals Similar and Unique Roles in the Development of the Sensory Cell Progenitors in the Mammalian Inner Ear. <i>Journal of Neuroscience</i> , 2013, 33, 16146-16157.	1.7	94
7	Fetal Lung and Diaphragm Development in Congenital Diaphragmatic Hernia. <i>Seminars in Perinatology</i> , 2005, 29, 86-93.	1.1	92
8	Regeneration of the lung: Lung stem cells and the development of lung mimicking devices. <i>Respiratory Research</i> , 2016, 17, 44.	1.4	86
9	The Future of Bronchopulmonary Dysplasia: Emerging Pathophysiological Concepts and Potential New Avenues of Treatment. <i>Frontiers in Medicine</i> , 2017, 4, 61.	1.2	79
10	Exportin 4 mediates a novel nuclear import pathway for Sox family transcription factors. <i>Journal of Cell Biology</i> , 2009, 185, 27-34.	2.3	73
11	Clinical and etiological heterogeneity in patients with tracheo-esophageal malformations and associated anomalies. <i>European Journal of Medical Genetics</i> , 2014, 57, 440-452.	0.7	65
12	Linking animal models to human congenital diaphragmatic hernia. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , 2007, 79, 565-572.	1.6	58
13	Unique Tracheal Fluid MicroRNA Signature Predicts Response to FETO in Patients With Congenital Diaphragmatic Hernia. <i>Annals of Surgery</i> , 2015, 262, 1130-1140.	2.1	57
14	Pulmonary vascular development goes awry in congenital lung abnormalities. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2014, 102, 343-358.	3.6	52
15	SOX2 redirects the developmental fate of the intestinal epithelium toward a premature gastric phenotype. <i>Journal of Molecular Cell Biology</i> , 2012, 4, 377-385.	1.5	50
16	Sox2 Regulates the Emergence of Lung Basal Cells by Directly Activating the Transcription of <i>Trp63</i> . <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014, 51, 311-322.	1.4	49
17	Congenital pulmonary airway malformation: advances and controversies. <i>The Lancet Child and Adolescent Health</i> , 2018, 2, 290-297.	2.7	47
18	A novel method for expansion and differentiation of mouse tracheal epithelial cells in culture. <i>Scientific Reports</i> , 2018, 8, 7349.	1.6	45

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19	Ghrelin Expression in Human and Rat Fetal Lungs and the Effect of Ghrelin Administration in Nitrofen-Induced Congenital Diaphragmatic Hernia. <i>Pediatric Research</i> , 2006, 59, 531-537.	1.1	44
20	Expression of Hypoxia-Inducible Factors in Normal Human Lung Development. <i>Pediatric and Developmental Pathology</i> , 2008, 11, 193-199.	0.5	44
21	Premature differentiation of vascular smooth muscle cells in human congenital diaphragmatic hernia. <i>Experimental and Molecular Pathology</i> , 2013, 94, 195-202.	0.9	43
22	Alveolar capillary dysplasia with misalignment of the pulmonary veins: clinical, histological, and genetic aspects. <i>Pulmonary Circulation</i> , 2018, 8, 1-8.	0.8	36
23	Expression of Angiogenesis-Related Factors in Lungs of Patients with Congenital Diaphragmatic Hernia and Pulmonary Hypoplasia of Other Causes. <i>Pediatric and Developmental Pathology</i> , 2004, 7, 468-477.	0.5	35
24	In vitro modelling of alveolar repair at the air-liquid interface using alveolar epithelial cells derived from human induced pluripotent stem cells. <i>Scientific Reports</i> , 2020, 10, 5499.	1.6	35
25	Hypoxia-Inducible Factor 2 $\beta$ Plays a Critical Role in the Formation of Alveoli and Surfactant. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2012, 46, 224-232.	1.4	32
26	Clinically relevant timing of antenatal sildenafil treatment reduces pulmonary vascular remodeling in congenital diaphragmatic hernia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 311, L734-L742.	1.3	32
27	Metabolic disturbances of the vitamin A pathway in human diaphragmatic hernia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2015, 308, L147-L157.	1.3	31
28	Pulmonary vascular development in congenital diaphragmatic hernia. <i>European Respiratory Review</i> , 2018, 27, 170104.	3.0	28
29	Impact of Fgf10 deficiency on pulmonary vasculature formation in a mouse model of bronchopulmonary dysplasia. <i>Human Molecular Genetics</i> , 2019, 28, 1429-1444.	1.4	28
30	3D Lung-on-Chip Model Based on Biomimetically Microcurved Culture Membranes. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 2684-2699.	2.6	27
31	Vascular abnormalities in human newborns with pulmonary hypertension. <i>Expert Review of Respiratory Medicine</i> , 2011, 5, 245-256.	1.0	25
32	Hypoxia Inducible Factor 3 $\beta$ Plays a Critical Role in Alveolarization and Distal Epithelial Cell Differentiation during Mouse Lung Development. <i>PLoS ONE</i> , 2013, 8, e57695.	1.1	25
33	Changes in vasoactive pathways in congenital diaphragmatic hernia associated pulmonary hypertension explain unresponsiveness to pharmacotherapy. <i>Respiratory Research</i> , 2017, 18, 187.	1.4	24
34	Treatment of rat congenital diaphragmatic hernia with sildenafil and NS-304, selexipag <sup>™</sup> s active compound, at the pseudoglandular stage improves lung vasculature. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 315, L276-L285.	1.3	22
35	Early origins of lung disease: towards an interdisciplinary approach. <i>European Respiratory Review</i> , 2020, 29, 200191.	3.0	21
36	Generation of a tightly regulated doxycycline <sup>™</sup> -inducible model for studying mouse intestinal biology. <i>Genesis</i> , 2009, 47, 7-13.	0.8	19

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37	Reversal of pulmonary vascular remodeling in pulmonary hypertensive rats. <i>Experimental and Molecular Pathology</i> , 2012, 93, 66-73.	0.9	19
38	Disease modeling following organoid-based expansion of airway epithelial cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 321, L775-L786.	1.3	19
39	Expression of Hypoxia-Inducible Factors, Regulators, and Target Genes in Congenital Diaphragmatic Hernia Patients. <i>Pediatric and Developmental Pathology</i> , 2011, 14, 384-390.	0.5	18
40	Extracellular Matrix Defects in Aneurysmal Fibulin-4 Mice Predispose to Lung Emphysema. <i>PLoS ONE</i> , 2014, 9, e106054.	1.1	17
41	Inhibition of retinoic acid signaling induces aberrant pericyte coverage and differentiation resulting in vascular defects in congenital diaphragmatic hernia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019, 317, L317-L331.	1.3	16
42	Epigenetic reactivation of transcriptional programs orchestrating fetal lung development in human pulmonary hypertension. <i>Science Translational Medicine</i> , 2022, 14, .	5.8	15
43	Development of an In Vitro Airway Epithelial-Endothelial Cell Culture Model on a Flexible Porous Poly(Trimethylene Carbonate) Membrane Based on Calu-3 Airway Epithelial Cells and Lung Microvascular Endothelial Cells. <i>Membranes</i> , 2021, 11, 197.	1.4	13
44	Differentiated Type II Pneumocytes Can Be Reprogrammed by Ectopic Sox2 Expression. <i>PLoS ONE</i> , 2014, 9, e107248.	1.1	13
45	Effect of Oxygen on the Expression of Hypoxia-Inducible Factors in Human Fetal Lung Explants. <i>Neonatology</i> , 2010, 97, 346-354.	0.9	12
46	Endothelial loss of Fzd5 stimulates PKC/Ets1-mediated transcription of Angpt2 and Flt1. <i>Angiogenesis</i> , 2018, 21, 805-821.	3.7	12
47	Development of Porous and Flexible PTMC Membranes for In Vitro Organ Models Fabricated by Evaporation-Induced Phase Separation. <i>Membranes</i> , 2020, 10, 330.	1.4	12
48	SOX21 modulates SOX2-initiated differentiation of epithelial cells in the extrapulmonary airways. <i>ELife</i> , 2021, 10, .	2.8	12
49	Disturbed balance between SOX2 and CDX2 in human vitelline duct anomalies and intestinal duplications. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2013, 462, 515-522.	1.4	10
50	Histological, immunohistochemical and transcriptomic characterization of human tracheoesophageal fistulas. <i>PLoS ONE</i> , 2020, 15, e0242167.	1.1	10
51	Cellular Origin(s) of Congenital Diaphragmatic Hernia. <i>Frontiers in Pediatrics</i> , 2021, 9, 804496.	0.9	9
52	Generation of a biotinylatable Sox2 mouse model to identify Sox2 complexes in vivo. <i>Transgenic Research</i> , 2018, 27, 75-85.	1.3	6
53	Point mutation I634A in the glucocorticoid receptor causes embryonic lethality by reduced ligand binding. <i>Journal of Biological Chemistry</i> , 2022, 298, 101574.	1.6	6
54	Hypoxia inducible factor 2 $\beta$ (HIF2 $\beta$ /EPAS1) is associated with development of pulmonary hypertension in severe congenital diaphragmatic hernia patients. <i>Pulmonary Circulation</i> , 2018, 8, 1-4.	0.8	5

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55	Aberrant SOX2 expression in colorectal cancers does not correlate with mucinous differentiation and gastric mucin MUC5AC expression. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2014, 465, 395-400.	1.4	4
56	Fast detection of FOXF1 variants in patients with alveolar capillary dysplasia with misalignment of pulmonary veins using targeted sequencing. <i>Pediatric Research</i> , 2021, 89, 518-525.	1.1	4
57	Opposing Effects of TGF $\beta$ 2 and BMP in the Pulmonary Vasculature in Congenital Diaphragmatic Hernia. <i>Frontiers in Medicine</i> , 2021, 8, 642577.	1.2	3
58	Heritability and De Novo Mutations in Oesophageal Atresia and Tracheoesophageal Fistula Aetiology. <i>Genes</i> , 2021, 12, 1595.	1.0	3
59	Generation of three iPSC lines from two patients with heterozygous FOXF1 mutations associated to Alveolar Capillary Dysplasia with Misalignment of the Pulmonary Veins. <i>Stem Cell Research</i> , 2020, 44, 101745.	0.3	2
60	ERS International Congress 2020: highlights from the Paediatric Assembly. <i>ERJ Open Research</i> , 2021, 7, 00893-2020.	1.1	2
61	Key paediatric messages from the 2017 European Respiratory Society International Congress. <i>ERJ Open Research</i> , 2018, 4, 00165-2017.	1.1	1
62	Disease modelling following organoid-based expansion of airway epithelial cells. , 2020, , .		1
63	Identification of SOX2 Interacting Proteins in the Developing Mouse Lung With Potential Implications for Congenital Diaphragmatic Hernia. <i>Frontiers in Pediatrics</i> , 2022, 10, .	0.9	1