Reinoud Gosens

List of Publications by Year
in descending order

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108	3,948	109264	149623
papers	citations	35 h-index	56 g-index

113	113	113	5366
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Muscarinic receptor signaling in the pathophysiology of asthma and COPD. Respiratory Research, 2006, 7, 73.	1.4	327
2	Protective Effects of Tiotropium Bromide in the Progression of Airway Smooth Muscle Remodeling. American Journal of Respiratory and Critical Care Medicine, 2005, 171, 1096-1102.	2.5	182
3	Role of caveolin-1 in p42/p44 MAP kinase activation and proliferation of human airway smooth muscle. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2006, 291, L523-L534.	1.3	152
4	Paving the Rho in cancer metastasis: Rho GTPases and beyond. , 2018, 183, 1-21.		132
5	WNT-5A: signaling and functions in health and disease. Cellular and Molecular Life Sciences, 2016, 73, 567-587.	2.4	124
6	Acetylcholine beyond bronchoconstriction: roles in inflammation and remodeling. Trends in Pharmacological Sciences, 2015, 36, 164-171.	4.0	119
7	HDAC 3-selective inhibitor RGFP966 demonstrates anti-inflammatory properties in RAW 264.7 macrophages and mouse precision-cut lung slices by attenuating NF-Î²B p65 transcriptional activity. Biochemical Pharmacology, 2016, 108, 58-74.	2.0	105
8	Lung cancer stem cells: origin, features, maintenance mechanisms and therapeutic targeting. Biochemical Pharmacology, 2019, 160, 121-133.	2.0	99
9	The genetics of asthma and the promise of genomics-guided drug target discovery. Lancet Respiratory Medicine,the, 2020, 8, 1045-1056.	5.2	98
10	Reduced Vitamin K Status as a Potentially Modifiable Risk Factor of Severe Coronavirus Disease 2019. Clinical Infectious Diseases, 2021, 73, e4039-e4046.	2.9	93
11	Role of aberrant WNT signalling in the airway epithelial response to cigarette smoke in chronic obstructive pulmonary disease. Thorax, 2013, 68, 709-716.	2.7	82
12	Inhibition of LTÎ²R signalling activates WNT-induced regeneration in lung. Nature, 2020, 588, 151-156.	13.7	81
13	Airway smooth muscle in asthma: Linking contraction and mechanotransduction to disease pathogenesis and remodelling. Pulmonary Pharmacology and Therapeutics, 2014, 29, 96-107.	1.1	76
14	Acetylcholine: a novel regulator of airway smooth muscle remodelling?. European Journal of Pharmacology, 2004, 500, 193-201.	1.7	75
15	HDAC1-3 inhibitor MS-275 enhances IL10 expression in RAW264.7 macrophages and reduces cigarette smoke-induced airway inflammation in mice. Scientific Reports, 2017, 7, 45047.	1.6	69
16	Hyperinsulinemia adversely affects lung structure and function. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L837-L845.	1.3	68
17	Retinoic acid signaling balances adult distal lung epithelial progenitor cell growth and differentiation. EBioMedicine, 2018, 36, 461-474.	2.7	64
18	Rho-Kinase as a Drug Target for the Treatment of Airway Hyperresponsiveness in Asthma. Mini-Reviews in Medicinal Chemistry, 2006, 6, 339-348.	1.1	62

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19	Bronchoconstriction Induces TGF-Î² Release and Airway Remodelling in Guinea Pig Lung Slices. PLoS ONE, 2013, 8, e65580.	1.1	58
20	Cooperative regulation of GSK-3 by muscarinic and PDGF receptors is associated with airway myocyte proliferation. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2007, 293, L1348-L1358.	1.3	57
21	TGFâ€Î²â€induced profibrotic signaling is regulated in part by the WNT receptor Frizzledâ€8. FASEB Journal, 2016, 30, 1823-1835.	0.2	56
22	Caveolae facilitate muscarinic receptor-mediated intracellular Ca²⁺mobilization and contraction in airway smooth muscle. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2007, 293, L1406-L1418.	1.3	53
23	Airway and Extracellular Matrix Mechanics in COPD. Frontiers in Physiology, 2015, 6, 346.	1.3	53
24	TGF-Î² activation impairs fibroblast ability to support adult lung epithelial progenitor cell organoid formation. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 317, L14-L28.	1.3	53
25	Caveolae and Caveolins in the Respiratory System. Current Molecular Medicine, 2008, 8, 741-753.	0.6	52
26	Bronchoconstriction and Airway Biology. Chest, 2015, 147, 798-803.	0.4	51
27	Mesenchymal WNT-5A/5B Signaling Represses Lung Alveolar Epithelial Progenitors. Cells, 2019, 8, 1147.	1.8	49
28	WNT-5A regulates TGF-Î²-related activities in liver fibrosis. American Journal of Physiology - Renal Physiology, 2017, 312, G219-G227.	1.6	47
29	Tiotropium attenuates IL-13-induced goblet cell metaplasia of human airway epithelial cells. Thorax, 2015, 70, 668-676.	2.7	46
30	Wnt/Î²-catenin signaling is critical for regenerative potential of distal lung epithelial progenitor cells in homeostasis and emphysema. Stem Cells, 2020, 38, 1467-1478.	1.4	46
31	Muscarinic receptor subtype-specific effects on cigarette smoke-induced inflammation in mice. European Respiratory Journal, 2013, 42, 1677-1688.	3.1	44
32	WNT receptor signalling in lung physiology and pathology. , 2018, 187, 150-166.		44
33	Pharmacology of airway smooth muscle proliferation. European Journal of Pharmacology, 2008, 585, 385-397.	1.7	42
34	De novo synthesis of ÃŸâ€catenin via Hâ€Ras and MEK regulates airway smooth muscle growth. FASEB Journal, 2010, 24, 757-768.	0.2	40
35	Caveolin-1 is required for contractile phenotype expression by airway smooth muscle cells. Journal of Cellular and Molecular Medicine, 2011, 15, 2430-2442.	1.6	40
36	Growth factor-induced contraction of human bronchial smooth muscle is Rho-kinase-dependent. European Journal of Pharmacology, 2004, 494, 73-76.	1.7	39

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37	Combination therapy of tiotropium and ciclesonide attenuates airway inflammation and remodeling in a guinea pig model of chronic asthma. Respiratory Research, 2016, 17, 13.	1.4	38
38	microRNAâ€“mRNA regulatory networks underlying chronic mucus hypersecretion in COPD. European Respiratory Journal, 2018, 52, 1701556.	3.1	37
39	Targeting arginase and nitric oxide metabolism in chronic airway diseases and their co-morbidities. Current Opinion in Pharmacology, 2018, 40, 126-133.	1.7	36
40	TGF-Î²-Activated Kinase 1 (TAK1) Signaling Regulates TGF-Î²-Induced WNT-5A Expression in Airway Smooth Muscle Cells via Sp1 and Î²-Catenin. PLoS ONE, 2014, 9, e94801.	1.1	36
41	Noncanonical WNT-5B signaling induces inflammatory responses in human lung fibroblasts. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 310, L1166-L1176.	1.3	35
42	Anti-inflammatory effects of targeted lung denervation in patients with COPD. European Respiratory Journal, 2015, 46, 1489-1492.	3.1	33
43	Eosinophils enhance WNT-5a and TGF-Î21 genes expression in airway smooth muscle cells and promote their proliferation by increased extracellular matrix proteins production in asthma. BMC Pulmonary Medicine, 2016, 16, 94.	0.8	33
44	Cigarette smoke upâ€regulates <scp>PDE3</scp> and <scp>PDE4</scp> to decrease <scp>cAMP</scp> in airway cells. British Journal of Pharmacology, 2018, 175, 2988-3006.	2.7	31
45	The GSK-3/Î²-catenin-signalling axis in smooth muscle and its relationship with remodelling. Naunyn-Schmiedeberg's Archives of Pharmacology, 2008, 378, 185-191.	1.4	29
46	A Novel, Pan-PDE Inhibitor Exerts Anti-Fibrotic Effects in Human Lung Fibroblasts via Inhibition of TGF-Î² Signaling and Activation of cAMP/PKA Signaling. International Journal of Molecular Sciences, 2020, 21, 4008.	1.8	28
47	p42/p44 MAP kinase activation is localized to caveolae-free membrane domains in airway smooth muscle. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2007, 292, L1163-L1172.	1.3	27
48	Muscarinic M3 receptor-dependent regulation of airway smooth muscle contractile phenotype. British Journal of Pharmacology, 2004, 141, 943-950.	2.7	26
49	Small airway hyperresponsiveness in COPD: relationship between structure and function in lung slices. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 316, L537-L546.	1.3	26
50	Muscarinic M₃receptors on structural cells regulate cigarette smoke-induced neutrophilic airway inflammation in mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 308, L96-L103.	1.3	25
51	Regenerative pharmacology for COPD: breathing new life into old lungs. Thorax, 2019, 74, 890-897.	2.7	25
52	Elastase-Induced Parenchymal Disruption and Airway Hyper Responsiveness in Mouse Precision Cut Lung Slices: Toward an Ex vivo COPD Model. Frontiers in Physiology, 2016, 7, 657.	1.3	24
53	Persistent induction of goblet cell differentiation in the airways: Therapeutic approaches. , 2018, 185, 155-169.		24
54	Selective targeting of CREBâ€binding protein/Î²â€catenin inhibits growth of and extracellular matrix remodelling by airway smooth muscle. British Journal of Pharmacology, 2016, 173, 3327-3341.	2.7	23

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55	Cooperative signaling by TGF-Î²1 and WNT-11 drives sm-Î±-actin expression in smooth muscle via Rho kinase-actin-MRTF-A signaling. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 311, L529-L537.	1.3	22
56	D-dopachrome tautomerase contributes to lung epithelial repair via atypical chemokine receptor 3-dependent Akt signaling. EBioMedicine, 2021, 68, 103412.	2.7	22
57	Airway and Parenchymal Strains during Bronchoconstriction in the Precision Cut Lung Slice. Frontiers in Physiology, 2016, 7, 309.	1.3	21
58	A pro-inflammatory role for the Frizzled-8 receptor in chronic bronchitis. Thorax, 2016, 71, 312-322.	2.7	21
59	Epac1 links prostaglandin E2 to Î²-catenin-dependent transcription during epithelial-to-mesenchymal transition. Oncotarget, 2016, 7, 46354-46370.	0.8	21
60	A transcriptomics-guided drug target discovery strategy identifies receptor ligands for lung regeneration. Science Advances, 2022, 8, eabj9949.	4.7	20
61	Regulation of actin dynamics by WNT-5A: implications for human airway smooth muscle contraction. Scientific Reports, 2016, 6, 30676.	1.6	19
62	Pharmacological inhibition of GSK-3 in a guinea pig model of LPS-induced pulmonary inflammation: I. Effects on lung remodeling and pathology. Respiratory Research, 2013, 14, 113.	1.4	17
63	Revisiting asthma therapeutics: focus on WNT signal transduction. Drug Discovery Today, 2018, 23, 49-62.	3.2	17
64	Host-microbe cross-talk in the lung microenvironment: implications for understanding and treating chronic lung disease. European Respiratory Journal, 2020, 56, 1902320.	3.1	17
65	Cholinergic neuroplasticity in asthma driven by TrkB signaling. FASEB Journal, 2020, 34, 7703-7717.	0.2	17
66	Suppression of Eosinophil Integrins Prevents Remodeling of Airway Smooth Muscle in Asthma. Frontiers in Physiology, 2016, 7, 680.	1.3	16
67	Two-Year Outcomes for the Double-Blind, Randomized, Sham-Controlled Study of Targeted Lung Denervation in Patients with Moderate to Severe COPD: AIRFLOW-2 . International Journal of COPD, 2020, Volume 15, 2807-2816.	0.9	16
68	The PDE4 inhibitor CHF-6001 and LAMAs inhibit bronchoconstriction-induced remodeling in lung slices. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2017, 313, L507-L515.	1.3	15
69	Smooth-muscle-derived WNT5A augments allergen-induced airway remodelling and Th2 type inflammation. Scientific Reports, 2020, 10, 6754.	1.6	14
70	Pharmacological Rationale for Targeting IL-17 in Asthma. Frontiers in Allergy, 2021, 2, 694514.	1.2	14
71	Endothelial follistatinâ€likeâ€1 regulates the postnatal development of the pulmonary vasculature by modulating BMP/Smad signaling. Pulmonary Circulation, 2017, 7, 219-231.	0.8	13
72	Mouse Lung Tissue Slice Culture. Methods in Molecular Biology, 2019, 1940, 297-311.	0.4	13

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73	Novel phosphodiesterases inhibitors from the group of purine-2,6-dione derivatives as potent modulators of airway smooth muscle cell remodelling. European Journal of Pharmacology, 2019, 865, 172779.	1.7	13
74	Rho-Kinase 1/2 Inhibition Prevents Transforming Growth Factor-Î²-Induced Effects on Pulmonary Remodeling and Repair. Frontiers in Pharmacology, 2020, 11, 609509.	1.6	13
75	Therapeutic Targeting of IL-11 for Chronic Lung Disease. Trends in Pharmacological Sciences, 2021, 42, 354-366.	4.0	12
76	Synthesis and in vitro evaluation of anti-inflammatory, antioxidant, and anti-fibrotic effects of new 8-aminopurine-2,6-dione-based phosphodiesterase inhibitors as promising anti-asthmatic agents. Bioorganic Chemistry, 2021, 117, 105409.	2.0	11
77	Bradykinin augments EGF-induced airway smooth muscle proliferation by activation of conventional protein kinase C isoenzymes. European Journal of Pharmacology, 2006, 535, 253-262.	1.7	10
78	Therapeutic potential of soluble guanylate cyclase modulators in neonatal chronic lung disease. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2015, 309, L1037-L1040.	1.3	10
79	Î²-Catenin Directs Nuclear Factor-ÎºB p65 Output via CREB-Binding Protein/p300 in Human Airway Smooth Muscle. Frontiers in Immunology, 2017, 8, 1086.	2.2	10
80	WNT Signalling in Lung Physiology and Pathology. Handbook of Experimental Pharmacology, 2021, 269, 305-336.	0.9	10
81	Wnt-5A/B Signaling in Hematopoiesis throughout Life. Cells, 2020, 9, 1801.	1.8	9
82	LL-37 and HMGB1 induce alveolar damage and reduce lung tissue regeneration via RAGE. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2021, 321, L641-L652.	1.3	9
83	The Enhanced Adhesion of Eosinophils Is Associated with Their Prolonged Viability and Pro-Proliferative Effect in Asthma. Journal of Clinical Medicine, 2019, 8, 1274.	1.0	8
84	Repairing damaged lungs using regenerative therapy. Current Opinion in Pharmacology, 2021, 59, 85-94.	1.7	8
85	Diesel exhaust particles distort lung epithelial progenitors and their fibroblast niche. Environmental Pollution, 2022, 305, 119292.	3.7	8
86	Second M 3 muscarinic receptor binding site contributes to bronchoprotection by tiotropium. British Journal of Pharmacology, 2019, 176, 2864-2876.	2.7	7
87	Prostaglandin D2: the end of a story or just the beginning?. Lancet Respiratory Medicine,the, 2021, 9, 2-3.	5.2	7
88	A unique small cell lung carcinoma disease progression model shows progressive accumulation of cancer stem cell properties and CD44 as a potential diagnostic marker. Lung Cancer, 2021, 154, 13-22.	0.9	7
89	Success and continuous growth of the ERS clinical research collaborations. European Respiratory Journal, 2021, 58, 2102527.	3.1	7
90	PDE8: A Novel Target in Airway Smooth Muscle. American Journal of Respiratory Cell and Molecular Biology, 2018, 58, 426-427.	1.4	6

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91	Divergent effects of Wnt5b on IL-3- and GM-CSF-induced myeloid differentiation. Cellular Signalling, 2020, 67, 109507.	1.7	6
92	The novel TRPA1 antagonist BI01305834 inhibits ovalbumin-induced bronchoconstriction in guinea pigs. Respiratory Research, 2021, 22, 48.	1.4	6
93	Research highlights from the 2017 ERS International Congress: airway diseases in focus. ERJ Open Research, 2018, 4, 00163-2017.	1.1	5
94	Advanced Modeling of Peripheral Neuro-Effector Communication and -Plasticity. Physiology, 2020, 35, 348-357.	1.6	5
95	International research collaboration: The way forward. Respirology, 2018, 23, 654-655.	1.3	4
96	A synthetic peptide as an allosteric inhibitor of human arginase I and II. Molecular Biology Reports, 2021, 48, 1959-1966.	1.0	4
97	Pan-Phosphodiesterase Inhibitors Attenuate TGF-Î²-Induced Pro-Fibrotic Phenotype in Alveolar Epithelial Type II Cells by Downregulating Smad-2 Phosphorylation. Pharmaceuticals, 2022, 15, 423.	1.7	4
98	Mapping Arginase Expression with ¹⁸F-Fluorinated Late-Generation Arginase Inhibitors Derived from Quaternary Î±-Amino Acids. Journal of Nuclear Medicine, 2021, 62, 1163-1170.	2.8	3
99	The role of altered stem cell function in airway and alveolar repair and remodelling in COPD. , 2021, , 322-339.		3
100	Human pluripotent stem cells for the modelling and treatment of respiratory diseases. European Respiratory Review, 2021, 30, 210042.	3.0	3
101	National Heart, Lung, and Blood Institute and Building Respiratory Epithelium and Tissue for Health (BREATH) Consortium Workshop Report: Moving Forward in Lung Regeneration. American Journal of Respiratory Cell and Molecular Biology, 2021, 65, 22-29.	1.4	2
102	Author response to letter to editor: Hyperinsulinemia adversely affects lung structure and function. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 311, L183-L184.	1.3	1
103	Rejuvenating old lungs: Ainâ€™t no tonic like a drop of retinoic. Thorax, 2021, 76, 428-429.	2.7	1
104	Airway Smooth Muscle and Fibroblast Biology still a leading research focus for Young Investigators in the field. Pulmonary Pharmacology and Therapeutics, 2014, 29, 91-92.	1.1	0
105	Hot off the press: downregulation of PRMT1 for long-lasting effects of bronchial thermoplasty. European Respiratory Journal, 2019, 54, 1901898.	3.1	0
106	How to get the most out of the ERS International Congress 2021 and an overview of the Early Career Member session. Breathe, 2021, 17, 210057.	0.6	0
107	Neuroblastoma cell proliferation involves prostaglandin E2 and subsequent Î²â€catenin stabilization. FASEB Journal, 2013, 27, 1096.16.	0.2	0
108	Function and molecular regulation of WNTâ€5A expression by TGFâ€Î². FASEB Journal, 2013, 27, 729.6.	0.2	0