

# Reynold A Panettieri

## List of Publications by Year in descending order

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116  
papers

3,988  
citations

101384

36  
h-index

143772

57  
g-index

117  
all docs

117  
docs citations

117  
times ranked

5432  
citing authors

#	ARTICLE	IF	CITATIONS
1	Benralizumab for chronic obstructive pulmonary disease and sputum eosinophilia: a randomised, double-blind, placebo-controlled, phase 2a study. <i>Lancet Respiratory Medicine</i> , 2014, 2, 891-901.	5.2	248
2	Tumor Necrosis Factor- $\alpha$ -Induced Secretion of RANTES and Interleukin-6 from Human Airway Smooth Muscle Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2002, 26, 465-474.	1.4	178
3	Tralokinumab for severe, uncontrolled asthma (STRATOS 1 and STRATOS 2): two randomised, double-blind, placebo-controlled, phase 3 clinical trials. <i>Lancet Respiratory Medicine</i> , 2018, 6, 511-525.	5.2	175
4	A disease module in the interactome explains disease heterogeneity, drug response and captures novel pathways and genes in asthma. <i>Human Molecular Genetics</i> , 2015, 24, 3005-3020.	1.4	162
5	Upregulation of Mas-related G Protein coupled receptor X2 in asthmatic lung mast cells and its activation by the novel neuropeptide hemokinin-1. <i>Respiratory Research</i> , 2018, 19, 1.	1.4	146
6	Immunostimulatory Defective Viral Genomes from Respiratory Syncytial Virus Promote a Strong Innate Antiviral Response during Infection in Mice and Humans. <i>PLoS Pathogens</i> , 2015, 11, e1005122.	2.1	119
7	Paucigranulocytic asthma: Uncoupling of airway obstruction from inflammation. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 143, 1287-1294.	1.5	103
8	<i>Aspergillus fumigatus</i> -Induced Allergic Airway Inflammation Alters Surfactant Homeostasis and Lung Function in BALB/c Mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2001, 25, 45-50.	1.4	85
9	Transforming Growth Factor $\beta$ 1 Function in Airway Remodeling and Hyperresponsiveness. The Missing Link?. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 56, 432-442.	1.4	84
10	Defining an olfactory receptor function in airway smooth muscle cells. <i>Scientific Reports</i> , 2016, 6, 38231.	1.6	83
11	Airway smooth muscle as an immunomodulatory cell. <i>Pulmonary Pharmacology and Therapeutics</i> , 2009, 22, 353-359.	1.1	81
12	TAS2R activation promotes airway smooth muscle relaxation despite $\beta$ -adrenergic receptor tachyphylaxis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2012, 303, L304-L311.	1.3	76
13	CD33 recruitment inhibits IgE-mediated anaphylaxis and desensitizes mast cells to allergen. <i>Journal of Clinical Investigation</i> , 2019, 129, 1387-1401.	3.9	76
14	Unconventional Gas and Oil Drilling Is Associated with Increased Hospital Utilization Rates. <i>PLoS ONE</i> , 2015, 10, e0131093.	1.1	72
15	Development and Characterization of Pepducins as Gs-biased Allosteric Agonists*. <i>Journal of Biological Chemistry</i> , 2014, 289, 35668-35684.	1.6	71
16	TGF- $\beta$ 1 Evokes Human Airway Smooth Muscle Cell Shortening and Hyperresponsiveness via Smad3. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 58, 575-584.	1.4	71
17	Bradykinin Induces Interleukin-6 Production in Human Airway Smooth Muscle Cells. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2003, 28, 330-338.	1.4	66
18	$\beta$ -Agonist-mediated Relaxation of Airway Smooth Muscle Is Protein Kinase A-dependent. <i>Journal of Biological Chemistry</i> , 2014, 289, 23065-23074.	1.6	66

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19	Airway smooth muscle: An immunomodulatory cell. <i>Journal of Allergy and Clinical Immunology</i> , 2002, 110, S269-S274.	1.5	65
20	Phosphoinositide 3-Kinase in Asthma: Novel Roles and Therapeutic Approaches. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 56, 700-707.	1.4	65
21	TLR3 activation stimulates cytokine secretion without altering agonist-induced human small airway contraction or relaxation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009, 297, L530-L537.	1.3	60
22	Soluble guanylate cyclase as an alternative target for bronchodilator therapy in asthma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E2355-62.	3.3	57
23	Oncostatin M causes VEGF release from human airway smooth muscle: synergy with IL-1 $\beta$ . <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005, 288, L1040-L1048.	1.3	56
24	Albuterol+Budesonide Fixed-Dose Combination Rescue Inhaler for Asthma. <i>New England Journal of Medicine</i> , 2022, 386, 2071-2083.	13.9	55
25	An inflammation-independent contraction mechanophenotype of airway smooth muscle in asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 138, 294-297.e4.	1.5	52
26	Interdicting G $\alpha_q$ Activation in Airway Disease by Receptor-Dependent and Receptor-Independent Mechanisms. <i>Molecular Pharmacology</i> , 2016, 89, 94-104.	1.0	52
27	Airway smooth muscle: immunomodulatory cells that modulate airway remodeling?. <i>Respiratory Physiology and Neurobiology</i> , 2003, 137, 277-293.	0.7	50
28	CTNNA3 and SEMA3D: Promising loci for asthma exacerbation identified through multiple genome-wide association studies. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 136, 1503-1510.	1.5	50
29	Oncostatin M causes eotaxin-1 release from airway smooth muscle: Synergy with IL-4 and IL-13. <i>Journal of Allergy and Clinical Immunology</i> , 2005, 115, 514-520.	1.5	47
30	Elastomeric sensor surfaces for high-throughput single-cell force cytometry. <i>Nature Biomedical Engineering</i> , 2018, 2, 124-137.	11.6	47
31	Obesity increases airway smooth muscle responses to contractile agonists. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 315, L673-L681.	1.3	45
32	H2S relaxes isolated human airway smooth muscle cells via the sarcolemmal KATP channel. <i>Biochemical and Biophysical Research Communications</i> , 2014, 446, 393-398.	1.0	43
33	Neutrophilic and Pauci-immune Phenotypes in Severe Asthma. <i>Immunology and Allergy Clinics of North America</i> , 2016, 36, 569-579.	0.7	43
34	Regulator of G protein signaling 2 is a key modulator of airway hyperresponsiveness. <i>Journal of Allergy and Clinical Immunology</i> , 2012, 130, 968-976.e3.	1.5	40
35	Regulation of G Protein-Coupled Receptor-Adenylyl Cyclase Responsiveness in Human Airway Smooth Muscle by Exogenous and Autocrine Adenosine. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2001, 24, 155-163.	1.4	39
36	PDE8 Is Expressed in Human Airway Smooth Muscle and Selectively Regulates cAMP Signaling by $\beta_2$ -Adrenergic Receptors and Adenylyl Cyclase 6. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 58, 530-541.	1.4	39

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37	Repeated allergen inhalations induce DNA synthesis in airway smooth muscle and epithelial cells in vivo. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1998, 274, L417-L424.	1.3	37
38	Biased signaling of the proton-sensing receptor OGR1 by benzodiazepines. <i>FASEB Journal</i> , 2018, 32, 862-874.	0.2	36
39	Inhibition of PI3K promotes dilation of human small airways in a rho kinase-dependent manner. <i>British Journal of Pharmacology</i> , 2016, 173, 2726-2738.	2.7	34
40	MicroRNA-203 negatively regulates c-Abl, ERK1/2 phosphorylation, and proliferation in smooth muscle cells. <i>Physiological Reports</i> , 2015, 3, e12541.	0.7	33
41	Guiding principles for use of newer biologics and bronchial thermoplasty for patients with severe asthma. <i>Annals of Allergy, Asthma and Immunology</i> , 2017, 119, 533-540.	0.5	33
42	MicroRNA Mediated Chemokine Responses in Human Airway Smooth Muscle Cells. <i>PLoS ONE</i> , 2016, 11, e0150842.	1.1	31
43	Effects of Corticosteroids on Structural Cells in Asthma and Chronic Obstructive Pulmonary Disease. <i>Proceedings of the American Thoracic Society</i> , 2004, 1, 231-234.	3.5	29
44	G $\beta$ 12 facilitates shortening in human airway smooth muscle by modulating phosphoinositide 3-kinase-mediated activation in a Rho-dependent manner. <i>British Journal of Pharmacology</i> , 2017, 174, 4383-4395.	2.7	28
45	The Role of Neutrophils in Asthma. <i>Immunology and Allergy Clinics of North America</i> , 2018, 38, 629-638.	0.7	28
46	Glucocorticoids rapidly activate cAMP production via G $\beta$ 12 to initiate non-genomic signaling that contributes to one-third of their canonical genomic effects. <i>FASEB Journal</i> , 2020, 34, 2882-2895.	0.2	28
47	Airway Smooth Muscle-Specific Transcriptomic Signatures of Glucocorticoid Exposure. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 61, 110-120.	1.4	27
48	Asthma Yardstick. <i>Annals of Allergy, Asthma and Immunology</i> , 2017, 118, 133-142.e3.	0.5	26
49	Glucocorticoid Receptor ChIP-Seq Identifies PLCD1 as a KLF15 Target that Represses Airway Smooth Muscle Hypertrophy. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 57, 226-237.	1.4	25
50	A microphysiological model of the bronchial airways reveals the interplay of mechanical and biochemical signals in bronchospasm. <i>Nature Biomedical Engineering</i> , 2019, 3, 532-544.	11.6	25
51	Glucocorticoid and TNF signaling converge at A20 (TNFAIP3) to repress airway smooth muscle cytokine expression. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2016, 311, L421-L432.	1.3	24
52	Biased TAS2R Bronchodilators Inhibit Airway Smooth Muscle Growth by Downregulating Phosphorylated Extracellular Signal-regulated Kinase 1/2. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 60, 532-540.	1.4	24
53	Budesonide enhances agonist-induced bronchodilation in human small airways by increasing cAMP production in airway smooth muscle. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 318, L345-L355.	1.3	24
54	Regulation of gelatinases in human airway smooth muscle cells: mechanism of progelatinase A activation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1999, 277, L174-L182.	1.3	23

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55	Effects of rhinovirus 39 infection on airway hyperresponsiveness to carbachol in human airways precision cut lung slices. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 1887-1890.e1.	1.5	22
56	Inhibition of spleen tyrosine kinase attenuates IgE-mediated airway contraction and mediator release in human precision cut lung slices. <i>British Journal of Pharmacology</i> , 2016, 173, 3080-3087.	2.7	21
57	Transforming Growth Factor- $\beta$ 1 Decreases $\beta$ -Agonist-induced Relaxation in Human Airway Smooth Muscle. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2019, 61, 209-218.	1.4	21
58	STIM1 is a core trigger of airway smooth muscle remodeling and hyperresponsiveness in asthma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	21
59	Diacylglycerol kinase $\uparrow$ promotes allergic airway inflammation and airway hyperresponsiveness through distinct mechanisms. <i>Science Signaling</i> , 2019, 12, .	1.6	20
60	Bnip3 regulates airway smooth muscle cell focal adhesion and proliferation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019, 317, L758-L767.	1.3	19
61	Harmonized outcome measures for use in asthma patient registries and clinical practice. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 144, 671-681.e1.	1.5	19
62	Airway smooth muscle: immunomodulatory cells?. <i>Allergy and Asthma Proceedings</i> , 2004, 25, 381-6.	1.0	19
63	Association of groundwater constituents with topography and distance to unconventional gas wells in NE Pennsylvania. <i>Science of the Total Environment</i> , 2017, 577, 195-201.	3.9	18
64	RGS4 Overexpression in Lung Attenuates Airway Hyperresponsiveness in Mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 58, 89-98.	1.4	18
65	Molecular Tension Probes to Investigate the Mechanopharmacology of Single Cells: A Step toward Personalized Mechanomedicine. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800069.	3.9	17
66	Oncostatin M expression induced by bacterial triggers drives airway inflammatory and mucus secretion in severe asthma. <i>Science Translational Medicine</i> , 2022, 14, eabf8188.	5.8	17
67	Tralokinumab for the treatment of severe, uncontrolled asthma: the ATMOSPHERE clinical development program. <i>Immunotherapy</i> , 2018, 10, 473-490.	1.0	16
68	Regulator of G protein signaling 5 restricts neutrophil chemotaxis and trafficking. <i>Journal of Biological Chemistry</i> , 2018, 293, 12690-12702.	1.6	16
69	Soluble Guanylate Cyclase Agonists Induce Bronchodilation in Human Small Airways. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 62, 43-48.	1.4	16
70	&lt;p&gt;The CHRONICLE Study of US Adults with Subspecialist-Treated Severe Asthma: Objectives, Design, and Initial Results&lt;/p&gt;. <i>Journal of Pragmatic and Observational Research</i> , 2020, Volume 11, 77-90.	1.1	16
71	Lipid-laden macrophages as biomarkers of vaping-associated lung injury. <i>Lancet Respiratory Medicine</i> , 2020, 8, e6.	5.2	16
72	Phosphodiesterases Regulate Airway Smooth Muscle Function in Health and Disease. <i>Current Topics in Developmental Biology</i> , 2007, 79, 61-74.	1.0	14

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73	Bronchodilators, receptors and cross-talk: Together is better?. <i>Postgraduate Medicine</i> , 2015, 127, 771-780.	0.9	14
74	An inherent dysfunction in soluble guanylyl cyclase is present in the airway of severe asthmatics and is associated with aberrant redox enzyme expression and compromised NO-cGMP signaling. <i>Redox Biology</i> , 2021, 39, 101832.	3.9	14
75	Metabolomics in asthma: A platform for discovery. <i>Molecular Aspects of Medicine</i> , 2022, 85, 100990.	2.7	14
76	Pepducins as a potential treatment strategy for asthma and COPD. <i>Current Opinion in Pharmacology</i> , 2018, 40, 120-125.	1.7	13
77	Formaldehyde Induces Rho-Associated Kinase Activity to Evoke Airway Hyperresponsiveness. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2016, 55, 542-553.	1.4	12
78	Functional NMDA receptors are expressed by human pulmonary artery smooth muscle cells. <i>Scientific Reports</i> , 2021, 11, 8205.	1.6	12
79	The odorant receptor OR2W3 on airway smooth muscle evokes bronchodilation via a cooperative chemosensory tradeoff between TMEM16A and CFTR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28485-28495.	3.3	11
80	Airway smooth muscle and airway hyperresponsiveness in asthma: mechanisms of airway smooth muscle dysfunction. <i>Minerva Medica</i> , 2022, 113, .	0.3	11
81	Modulation of airway hyperresponsiveness by rhinovirus exposure. <i>Respiratory Research</i> , 2018, 19, 208.	1.4	10
82	Salicylic acid amplifies Carbachol-induced bronchoconstriction in human precision-cut lung slices. <i>Respiratory Research</i> , 2019, 20, 72.	1.4	10
83	Molecular Nanomechanical Mapping of Histamine-Induced Smooth Muscle Cell Contraction and Shortening. <i>ACS Nano</i> , 2021, 15, 11585-11596.	7.3	10
84	Identifying a reference list of respiratory sensitizers for the evaluation of novel approaches to study respiratory sensitization. <i>Critical Reviews in Toxicology</i> , 2021, 51, 792-804.	1.9	10
85	Mucins MUC5AC and MUC5B Are Variably Packaged in the Same and in Separate Secretory Granules. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 206, 1081-1095.	2.5	10
86	Revisiting John Snow to Meet the Challenge of Nontuberculous Mycobacterial Lung Disease. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 4250.	1.2	9
87	How Important Is Adherence to Inhaled Medications Before Starting a Biologic Therapy for Asthma?. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2018, 6, 1578-1579.	2.0	8
88	Modulation of Bronchomotor Tone Pathways in Airway Smooth Muscle Function and Bronchomotor Tone in Asthma. <i>Clinics in Chest Medicine</i> , 2019, 40, 51-57.	0.8	8
89	Asthma and COVID: What Are the Important Questions?. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2020, 8, 2487-2488.	2.0	8
90	TGF- $\beta$ 2: The missing link in obesity-associated airway diseases?. <i>Current Research in Pharmacology and Drug Discovery</i> , 2021, 2, 100016.	1.7	8

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91	Diacylglycerol Kinase Inhibition Reduces Airway Contraction by Negative Feedback Regulation of Gq-Signaling. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2021, 65, 658-671.	1.4	8
92	Patient-reported outcomes in moderate-to-severe allergic asthmatics treated with omalizumab: a systematic literature review of randomized controlled trials. <i>Current Medical Research and Opinion</i> , 2018, 34, 65-80.	0.9	7
93	CD2 Regulates Pathogenesis of Asthma Induced by House Dust Mice Extract. <i>Frontiers in Immunology</i> , 2020, 11, 881.	2.2	7
94	Dexamethasone rescues TGF- $\beta$ 1-mediated $\beta$ 2-adrenergic receptor dysfunction and attenuates phosphodiesterase 4D expression in human airway smooth muscle cells. <i>Respiratory Research</i> , 2020, 21, 256.	1.4	6
95	Airway relaxation mechanisms and structural basis of osthole for improving lung function in asthma. <i>Science Signaling</i> , 2020, 13, .	1.6	6
96	Inhibition of ABCC1 Decreases cAMP Egress and Promotes Human Airway Smooth Muscle Cell Relaxation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022, 66, 96-106.	1.4	6
97	Differing perceptions of asthma control and treatment effectiveness by patients with severe asthma and treating subspecialists in the United States. <i>Journal of Asthma</i> , 2022, 59, 1859-1868.	0.9	5
98	Bronchial Thermoplasty: Targeting Structural Cells in Severe Persistent Asthma. <i>Annals of the American Thoracic Society</i> , 2015, 12, 1593-4.	1.5	5
99	Clinical Issues in Severe Asthma. <i>Chest</i> , 2018, 154, 1459-1460.	0.4	4
100	Autocrine regulation of airway smooth muscle contraction by diacylglycerol kinase. <i>Journal of Cellular Physiology</i> , 2021, , .	2.0	4
101	Obesity elicits a unique metabolomic signature in human airway smooth muscle cells. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2022, 323, L297-L307.	1.3	4
102	Last Word on Point: Alterations in airway smooth muscle phenotype do cause airway hyperresponsiveness in asthma. <i>Journal of Applied Physiology</i> , 2012, 113, 847-847.	1.2	3
103	Anti-IgE or Anti-IL5: That Is the Question. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2018, 6, 782-784.	2.0	3
104	Upregulated P-Rex1 exacerbates human airway smooth muscle hyperplasia in asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 143, 778-781.e5.	1.5	3
105	Acetaminophen is both bronchodilatory and bronchoprotective in human precision cut lung slice airways. <i>Xenobiotica</i> , 2019, 49, 1106-1115.	0.5	3
106	Major Components of an Asthma Disease Management Programme. <i>Disease Management and Health Outcomes</i> , 1998, 4, 243-253.	0.3	2
107	Clinical Issues in Severe Asthma. <i>Chest</i> , 2018, 154, 982-983.	0.4	2
108	Impact of a Respiratory Disease Young Investigatorsâ€™™ Forum on the Career Development of Physician-Scientists. <i>ATS Scholar</i> , 2020, 1, 243-259.	0.5	2

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109	Na <sup>+</sup> /H <sup>+</sup> Exchanger Regulatory Factor 1 Mediates the Pathogenesis of Airway Inflammation in a Murine Model of House Dust Mite-Induced Asthma. <i>Journal of Immunology</i> , 2021, 206, 2301-2311.	0.4	2
110	Downregulation of Guanylate Cyclase Enzyme in Human Asthma model to Investigate NO-Gc-cGMP as a Therapeutic Pathway in Asthma. <i>FASEB Journal</i> , 2018, 32, 840.11.	0.2	2
111	Steroid-induced fibroblast growth factors drive an epithelial-mesenchymal inflammatory axis in severe asthma. <i>Science Translational Medicine</i> , 2022, 14, eabl8146.	5.8	2
112	Improvement in Lung Function with Dupilumab Does Not Predict Its Effects on Reducing Asthma Exacerbation. <i>Journal of Asthma and Allergy</i> , 0, Volume 15, 851-854.	1.5	1
113	TENOR Revisited. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2020, 8, 2254-2255.	2.0	0
114	Post-Transcriptional Regulation of CD38 expression in human airway smooth muscle (HASM) cells. <i>FASEB Journal</i> , 2010, 24, 626.6.	0.2	0
115	Rotten eggs™ H 2 S acting on human airway smooth muscle mechanics. <i>FASEB Journal</i> , 2013, 27, 1216.5.	0.2	0
116	Bronchodilator Responsiveness: An Underappreciated Biomarker for Asthma Exacerbations. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2022, 10, 229-230.	2.0	0