

# Allison D Fryer

## List of Publications by Year in descending order

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120  
papers

5,457  
citations

76326

40  
h-index

91884

69  
g-index

123  
all docs

123  
docs citations

123  
times ranked

4754  
citing authors

#	ARTICLE	IF	CITATIONS
1	Disruption of <i>Nrf2</i> enhances susceptibility to severe airway inflammation and asthma in mice. <i>Journal of Experimental Medicine</i> , 2005, 202, 47-59.	8.5	529
2	Muscarinic receptors: their distribution and function in body systems, and the implications for treating overactive bladder. <i>British Journal of Pharmacology</i> , 2006, 148, 565-578.	5.4	491
3	Muscarinic inhibitory receptors in pulmonary parasympathetic nerves in the guinea pig. <i>British Journal of Pharmacology</i> , 1984, 83, 973-978.	5.4	298
4	Muscarinic acetylcholine receptors and airway diseases. , 2003, 98, 59-69.		171
5	Ovalbumin Sensitization Changes the Inflammatory Response to Subsequent Parainfluenza Infection. <i>Journal of Experimental Medicine</i> , 1999, 190, 1465-1478.	8.5	163
6	Parainfluenza virus infection damages inhibitory M <sub>2</sub> muscarinic receptors on pulmonary parasympathetic nerves in the guinea pig. <i>British Journal of Pharmacology</i> , 1991, 102, 267-271.	5.4	162
7	Muscarinic receptor antagonists, from folklore to pharmacology; finding drugs that actually work in asthma and COPD. <i>British Journal of Pharmacology</i> , 2011, 163, 44-52.	5.4	126
8	Neuronal eotaxin and the effects of ccr3 antagonist on airway hyperreactivity and M2 receptor dysfunction. <i>Journal of Clinical Investigation</i> , 2005, 116, 228-236.	8.2	121
9	Neuronal muscarinic receptors attenuate vagally induced contraction of feline bronchial smooth muscle. <i>British Journal of Pharmacology</i> , 1985, 86, 723-728.	5.4	120
10	Eosinophils increase airway sensory nerve density in mice and in human asthma. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	101
11	Muscarinic Receptor Antagonists: Effects on Pulmonary Function. <i>Handbook of Experimental Pharmacology</i> , 2012, , 317-341.	1.8	94
12	Eosinophil recruitment to the airway nerves. <i>Journal of Allergy and Clinical Immunology</i> , 2001, 107, 211-218.	2.9	91
13	Human and Mouse Eosinophils Have Antiviral Activity against Parainfluenza Virus. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2016, 55, 387-394.	2.9	86
14	Hyperinsulinemia Potentiates Airway Responsiveness to Parasympathetic Nerve Stimulation in Obese Rats. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014, 51, 251-261.	2.9	79
15	Mechanisms of organophosphate insecticide-induced airway hyperreactivity. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004, 286, L963-L969.	2.9	76
16	Postganglionic muscarinic inhibitory receptors in pulmonary parasympathetic nerves in the guinea pig. <i>British Journal of Pharmacology</i> , 1986, 88, 181-187.	5.4	72
17	Â2-Agonist and Anticholinergic Drugs in the Treatment of Lung Disease. <i>Proceedings of the American Thoracic Society</i> , 2005, 2, 305-310.	3.5	71
18	Eosinophils Increase Neuron Branching in Human and Murine Skin and In Vitro. <i>PLoS ONE</i> , 2011, 6, e22029.	2.5	71

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19	Eosinophil adhesion to cholinergic nerves via ICAM-1 and VCAM-1 and associated eosinophil degranulation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2002, 282, L1279-L1288.	2.9	68
20	Eosinophil and airway nerve interactions in asthma. <i>Journal of Leukocyte Biology</i> , 2018, 104, 61-67.	3.3	68
21	A toxicological and dermatological assessment of aryl alkyl alcohol simple acid ester derivatives when used as fragrance ingredients. <i>Food and Chemical Toxicology</i> , 2012, 50, S269-S313.	3.6	66
22	Organophosphorus Insecticides Induce Airway Hyperreactivity by Decreasing Neuronal M2 Muscarinic Receptor Function Independent of Acetylcholinesterase Inhibition. <i>Toxicological Sciences</i> , 2004, 83, 166-176.	3.1	60
23	Parainfluenza virus type 1 reduces the affinity of agonists for muscarinic receptors in guinea-pig lung and heart. <i>European Journal of Pharmacology</i> , 1990, 181, 51-58.	3.5	59
24	Ozone-induced hyperresponsiveness and blockade of M <sub>2</sub> muscarinic receptors by eosinophil major basic protein. <i>Journal of Applied Physiology</i> , 1999, 87, 1272-1278.	2.5	58
25	Tissue Optical Clearing, Three-Dimensional Imaging, and Computer Morphometry in Whole Mouse Lungs and Human Airways. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014, 51, 43-55.	2.9	57
26	A toxicologic and dermatologic assessment of cyclopentanones and cyclopentenones when used as fragrance ingredients. <i>Food and Chemical Toxicology</i> , 2012, 50, S517-S556.	3.6	54
27	Effect of inflammatory cell mediators on M2 muscarinic receptors in the lungs. <i>Life Sciences</i> , 1993, 52, 529-536.	4.3	51
28	Antigen-induced hyperreactivity to histamine: role of the vagus nerves and eosinophils. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1999, 276, L709-L714.	2.9	51
29	A toxicological and dermatological assessment of aryl alkyl alcohols when used as fragrance ingredients. <i>Food and Chemical Toxicology</i> , 2012, 50, S52-S99.	3.6	51
30	Effects of inflammatory cells on neuronal M2 muscarinic receptor function in the lung. <i>Life Sciences</i> , 1999, 64, 449-455.	4.3	50
31	Glucocorticoid Treatment Increases Inhibitory M <sub>2</sub> Muscarinic Receptor Expression and Function in the Airways. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2001, 24, 485-491.	2.9	49
32	Role of Parasympathetic Nerves and Muscarinic Receptors in Allergy and Asthma. <i>Chemical Immunology and Allergy</i> , 2012, 98, 48-69.	1.7	46
33	Identification of three muscarinic receptor subtypes in rat lung using binding studies with selective antagonists. <i>Life Sciences</i> , 1990, 47, 611-618.	4.3	45
34	Non-β <sub>2</sub> -bronchodilating mechanisms of tiotropium prevent airway hyperreactivity in a guinea-pig model of allergic asthma. <i>British Journal of Pharmacology</i> , 2012, 165, 1501-1514.	5.4	45
35	Selective muscarinic receptor antagonists for airway diseases. <i>Current Opinion in Pharmacology</i> , 2001, 1, 223-229.	3.5	44
36	Airway Sensory Nerve Density Is Increased in Chronic Cough. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 203, 348-355.	5.6	43

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37	The effect of leukocyte depletion on pulmonary M <sub>2</sub> muscarinic receptor function in parainfluenza virus-infected guinea-pigs. <i>British Journal of Pharmacology</i> , 1994, 112, 588-594.	5.4	42
38	Increased function of inhibitory neuronal M <sub>2</sub> muscarinic receptors in diabetic rat lungs. <i>British Journal of Pharmacology</i> , 1997, 121, 1287-1294.	5.4	42
39	Double-stranded RNA causes airway hyperreactivity and neuronal M <sub>2</sub> muscarinic receptor dysfunction. <i>Journal of Applied Physiology</i> , 2002, 92, 1417-1422.	2.5	42
40	Pancuronium and gallamine are antagonists for pre- and post-junctional muscarinic receptors in the guinea-pig lung. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1987, 335, 367-371.	3.0	41
41	Identification of M <sub>1</sub> muscarinic receptors in pulmonary sympathetic nerves in the guinea-pig by use of pirenzepine. <i>British Journal of Pharmacology</i> , 1989, 97, 499-505.	5.4	40
42	Organophosphorus Pesticides Decrease M2 Muscarinic Receptor Function in Guinea Pig Airway Nerves via Indirect Mechanisms. <i>PLoS ONE</i> , 2010, 5, e10562.	2.5	40
43	Substance P-induced airway hyperreactivity is mediated by neuronal M <sub>2</sub> receptor dysfunction. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2000, 279, L477-L486.	2.9	38
44	Ipratropium bromide potentiates bronchoconstriction induced by vagal nerve stimulation in the guinea-pig. <i>European Journal of Pharmacology</i> , 1987, 139, 187-191.	3.5	37
45	Effects of eosinophils on nerve cell morphology and development: the role of reactive oxygen species and p38 MAP kinase. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2003, 285, L915-L924.	2.9	37
46	Toll-like receptor 7 agonists are potent and rapid bronchodilators in guinea pigs. <i>Journal of Allergy and Clinical Immunology</i> , 2011, 127, 462-469.	2.9	37
47	Effects of tachykinin NK1 receptor antagonists on vagal hyperreactivity and neuronal M2 muscarinic receptor function in antigen challenged guinea-pigs. <i>British Journal of Pharmacology</i> , 1998, 124, 267-276.	5.4	36
48	CD8+T Lymphocytes in Viral Hyperreactivity and M2Muscarinic Receptor Dysfunction. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2003, 167, 550-556.	5.6	36
49	Etanercept prevents airway hyperresponsiveness by protecting neuronal M <sub>2</sub> muscarinic receptors in antigen-challenged guinea pigs. <i>British Journal of Pharmacology</i> , 2009, 156, 201-210.	5.4	36
50	Mechanisms of organophosphorus pesticide toxicity in the context of airway hyperreactivity and asthma. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2018, 315, L485-L501.	2.9	36
51	The Therapeutic Potential of Toll-Like Receptor 7 Stimulation in Asthma. <i>Inflammation and Allergy: Drug Targets</i> , 2012, 11, 484-491.	1.8	36
52	Anticholinergic therapy for airway diseases. <i>Life Sciences</i> , 2001, 68, 2565-2572.	4.3	35
53	Antigen Sensitization Influences Organophosphorus Pesticide-Induced Airway Hyperreactivity. <i>Environmental Health Perspectives</i> , 2008, 116, 381-388.	6.0	35
54	Toll-like Receptor 7 Rapidly Relaxes Human Airways. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 188, 664-672.	5.6	35

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55	The changing role of eosinophils in long-term hyperreactivity following a single ozone exposure. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2005, 289, L627-L635.	2.9	33
56	Atropine pretreatment enhances airway hyperreactivity in antigen-challenged guinea pigs through an eosinophil-dependent mechanism. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007, 292, L1126-L1135.	2.9	33
57	Expression and regulation of intercellular adhesion molecule-1 on airway parasympathetic nerves. <i>Journal of Allergy and Clinical Immunology</i> , 2007, 119, 1415-1422.	2.9	32
58	Interaction of Nondepolarizing Muscle Relaxants with M2 and M3 Muscarinic Receptors in Guinea Pig Lung and Heart. <i>Anesthesiology</i> , 1996, 84, 155-161.	2.5	31
59	Role of TNF- $\alpha$ in virus-induced airway hyperresponsiveness and neuronal M <sub>2</sub> muscarinic receptor dysfunction. <i>British Journal of Pharmacology</i> , 2011, 164, 444-452.	5.4	31
60	Eosinophil-dependent skin innervation and itching following contact toxicant exposure in mice. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 135, 477-487.e1.	2.9	31
61	Increased function of inhibitory neuronal M <sub>2</sub> muscarinic receptors in trachea and ileum of diabetic rats. <i>British Journal of Pharmacology</i> , 2002, 135, 1355-1362.	5.4	29
62	Macrophage TNF- $\alpha$ mediates parathion-induced airway hyperreactivity in guinea pigs. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2013, 304, L519-L529.	2.9	29
63	Role of macrophages in virus-induced airway hyperresponsiveness and neuronal M <sub>2</sub> muscarinic receptor dysfunction. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004, 286, L1255-L1259.	2.9	28
64	IL-1 Receptors Mediate Persistent, but Not Acute, Airway Hyperreactivity to Ozone in Guinea Pigs. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2008, 39, 730-738.	2.9	27
65	Structure of the human M <sub>2</sub> muscarinic acetylcholine receptor gene and its promoter. <i>Gene</i> , 2001, 271, 87-92.	2.2	26
66	A toxicological and dermatological assessment of macrocyclic lactone and lactide derivatives when used as fragrance ingredients. <i>Food and Chemical Toxicology</i> , 2011, 49, S219-S241.	3.6	26
67	IL-5 Exposure <i>in Utero</i> Increases Lung Nerve Density and Airway Reactivity in Adult Offspring. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 62, 493-502.	2.9	26
68	Unraveling the connection between eosinophils and obesity. <i>Journal of Leukocyte Biology</i> , 2020, 108, 123-128.	3.3	26
69	Interleukin-1 $\beta$ Mediates Virus-Induced M <sub>2</sub> Muscarinic Receptor Dysfunction and Airway Hyperreactivity. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014, 51, 494-501.	2.9	24
70	Neural control of airway inflammation. <i>Current Allergy and Asthma Reports</i> , 2009, 9, 484-490.	5.3	23
71	A toxicological and dermatological assessment of macrocyclic ketones when used as fragrance ingredients. <i>Food and Chemical Toxicology</i> , 2011, 49, S126-S141.	3.6	23
72	Eosinophil-Associated Inflammation in Bronchial Asthma: A Connection to the Nervous System. <i>International Archives of Allergy and Immunology</i> , 1995, 107, 205-207.	2.1	22

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73	Effects of neurokinin receptor antagonists in virus-infected airways. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2000, 279, L59-L65.	2.9	22
74	Dexamethasone prevents virus-induced hyperresponsiveness via multiple mechanisms. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2003, 285, L451-L455.	2.9	21
75	Atropine-enhanced, antigen challenge-induced airway hyperreactivity in guinea pigs is mediated by eosinophils and nerve growth factor. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2009, 297, L228-L237.	2.9	21
76	Organophosphorus Pesticides Induce Cytokine Release from Differentiated Human THP1 Cells. American Journal of Respiratory Cell and Molecular Biology, 2019, 61, 620-630.	2.9	21
77	Toll-Like Receptor <sup>2/6</sup> and Toll-Like Receptor <sup>9</sup> Agonists Suppress Viral Replication but Not Airway Hyperreactivity in Guinea Pigs. American Journal of Respiratory Cell and Molecular Biology, 2013, 48, 790-796.	2.9	18
78	Quantifying Nerve Architecture in Murine and Human Airways Using Three-Dimensional Computational Mapping. American Journal of Respiratory Cell and Molecular Biology, 2013, 48, 10-16.	2.9	18
79	.beta.1-Selective adrenoceptor antagonists. 2. 4-Ether-linked phenoxypropanolamines. Journal of Medicinal Chemistry, 1983, 26, 1570-1576.	6.4	17
80	Abnormalities in neural control of smooth muscle in virus-infected airways. Trends in Pharmacological Sciences, 1990, 11, 393-395.	8.7	16
81	Neuronal M2 Muscarinic Receptor Function in Guinea-Pig Lungs Is Inhibited by Indomethacin. The American Review of Respiratory Disease, 1993, 147, 559-564.	2.9	14
82	Insulin Regulates Neuronal M2 Muscarinic Receptor Function in the Ileum of Diabetic Rats. Journal of Pharmacology and Experimental Therapeutics, 2004, 308, 760-766.	2.5	13
83	Airway Sensory Nerve Plasticity in Asthma and Chronic Cough. Frontiers in Physiology, 2021, 12, 720538.	2.8	13
84	The response of cat airways to histamine <i>in vivo</i> and <i>in vitro</i> . British Journal of Pharmacology, 1985, 84, 309-316.	5.4	12
85	Lung eosinophils increase vagus nerve-mediated airway reflex bronchoconstriction in mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L242-L251.	2.9	12
86	An Endogenous Factor Induces Heterogeneity of Binding Sites of Selective Muscarinic Receptor Antagonists in Rat Heart. Membrane Biochemistry, 1989, 8, 127-132.	0.6	11
87	Inhibition of neuronal M2 muscarinic receptor function in the lungs by extracellular nitric oxide. British Journal of Pharmacology, 2000, 131, 312-318.	5.4	10
88	Identifying a reference list of respiratory sensitizers for the evaluation of novel approaches to study respiratory sensitization. Critical Reviews in Toxicology, 2021, 51, 792-804.	3.9	10
89	Three days after a single exposure to ozone, the mechanism of airway hyperreactivity is dependent on substance P and nerve growth factor. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2011, 300, L176-L184.	2.9	9
90	The Influence of Sensitization on Mechanisms of Organophosphorus Pesticide-Induced Airway Hyperreactivity. American Journal of Respiratory Cell and Molecular Biology, 2015, 53, 738-747.	2.9	9

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91	Ozone-induced eosinophil recruitment to airways is altered by antigen sensitization and tumor necrosis factor- $\alpha$ blockade. <i>Physiological Reports</i> , 2017, 5, e13538.	1.7	9
92	Transient receptor potential ankyrin-1 causes rapid bronchodilation via nonepithelial PGE <sub>2</sub> . <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 318, L943-L952.	2.9	9
93	Mini review: Neural mechanisms underlying airway hyperresponsiveness. <i>Neuroscience Letters</i> , 2021, 751, 135795.	2.1	9
94	Protective effects of eosinophils against COVID-19: More than an ACE(2) in the hole?. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2021, 9, 2539-2540.	3.8	9
95	Metformin prevents airway hyperreactivity in rats with dietary obesity. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 321, L1105-L1118.	2.9	9
96	Virus-Induced Airway Hyperresponsiveness – Possible Involvement of Neural Mechanisms. <i>The American Review of Respiratory Disease</i> , 1991, 144, 1422-1423.	2.9	8
97	Newly divided eosinophils limit ozone-induced airway hyperreactivity in nonsensitized guinea pigs. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2017, 312, L969-L982.	2.9	8
98	Optogenetic Control of Airway Cholinergic Neurons <i>In Vivo</i> . <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 62, 423-429.	2.9	8
99	Dual p38/JNK Mitogen Activated Protein Kinase Inhibitors Prevent Ozone-Induced Airway Hyperreactivity in Guinea Pigs. <i>PLoS ONE</i> , 2013, 8, e75351.	2.5	7
100	Pioglitazone prevents obesity-related airway hyperreactivity and neuronal M <sub>2</sub> receptor dysfunction. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2021, 321, L236-L247.	2.9	7
101	$\beta$ 2-Agonists Inhibit TNF- $\alpha$ -Induced ICAM-1 Expression in Human Airway Parasympathetic Neurons. <i>PLoS ONE</i> , 2012, 7, e44780.	2.5	7
102	Unique Allergic Asthma Phenotypes in Offspring of House Dust Mite-exposed Mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022, 67, 89-98.	2.9	7
103	Retinoic acid prevents virus-induced airway hyperreactivity and M <sub>2</sub> receptor dysfunction via anti-inflammatory and antiviral effects. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2009, 297, L340-L346.	2.9	5
104	A toxicologic and dermatologic assessment of cinnamyl phenylpropyl materials when used as fragrance ingredients. <i>Food and Chemical Toxicology</i> , 2011, 49, S256-S267.	3.6	5
105	IFN $\gamma$ Increases M2 Muscarinic Receptor Expression in Cultured Sympathetic Neurons. <i>Current Neurobiology</i> , 2011, 2, 23-29.	1.0	5
106	Cell Culture: Autonomic and Enteric Neurons. , 2009, , 625-632.		3
107	Plasticity of cholinergic and tachykinergic nerves: the convergence of the twain. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2002, 283, L907-L908.	2.9	2
108	Dysfunction of prejunctional muscarinic M2 receptors: role of environmental factors. , 2001, , 107-120.		2

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109	Multicolor labeling of airway neurons and analysis of parasympathetic heterogeneity. Scientific Reports, 2022, 12, 5006.	3.3	2
110	Eosinophils and airway nerves in asthma. , 2022, , 193-203.		1
111	Effect of viral infection on inhibitory prejunctional muscarinic receptors in guinea-pig airways. European Journal of Pharmacology, 1990, 183, 1181-1182.	3.5	0
112	Loss of neuronal m2 muscarinic receptors with viral infection in cultured airway parasympathetic nerves. Life Sciences, 1997, 60, 1189.	4.3	0
113	Eosinophil Cell-Cell Communication. , 2013, , 329-390.		0
114	TLR7 is expressed by support cells, but not sensory neurons, in ganglia. Journal of Neuroinflammation, 2021, 18, 209.	7.2	0
115	IL-1 mediates persistent but not acute ozone-induced airway hyperreactivity. FASEB Journal, 2008, 22, 764.11.	0.5	0
116	CCR3 chemokine expression is increased by tumor necrosis factor- $\alpha$ in neuroblastoma cells. FASEB Journal, 2008, 22, 664.16.	0.5	0
117	Effect of Albuterol Isomers on TNF- $\alpha$ ; Induced ICAM-1 and Eotaxin Expression in Human Parasympathetic Neurons. FASEB Journal, 2008, 22, 670.18.	0.5	0
118	Macrophages mediate organophosphorus pesticide-induced airway hyperreactivity in guinea pigs. FASEB Journal, 2008, 22, 918.1.	0.5	0
119	Atropine-induced potentiation of airway hyperreactivity in antigen challenged guinea pigs is mediated by nerve growth factor. FASEB Journal, 2008, 22, 670.16.	0.5	0
120	Muscarinic Receptor Subtypes and Anticholinergic Therapy. , 1999, , 85-118.		0