

Jack A Elias

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3891788/publications.pdf>

Version: 2024-02-01

84
papers

9,254
citations

61984

43
h-index

56724

83
g-index

92
all docs

92
docs citations

92
times ranked

10408
citing authors

#	ARTICLE	IF	CITATIONS
1	Interleukin-13 Induces Tissue Fibrosis by Selectively Stimulating and Activating Transforming Growth Factor β 1. <i>Journal of Experimental Medicine</i> , 2001, 194, 809-822.	8.5	845
2	Acidic Mammalian Chitinase in Asthmatic Th2 Inflammation and IL-13 Pathway Activation. <i>Science</i> , 2004, 304, 1678-1682.	12.6	759
3	Role of Chitin and Chitinase/Chitinase-Like Proteins in Inflammation, Tissue Remodeling, and Injury. <i>Annual Review of Physiology</i> , 2011, 73, 479-501.	13.1	700
4	Vascular endothelial growth factor (VEGF) induces remodeling and enhances TH2-mediated sensitization and inflammation in the lung. <i>Nature Medicine</i> , 2004, 10, 1095-1103.	30.7	549
5	A Chitinase-like Protein in the Lung and Circulation of Patients with Severe Asthma. <i>New England Journal of Medicine</i> , 2007, 357, 2016-2027.	27.0	512
6	Effect of Variation in <i>CHI3L1</i> on Serum YKL-40 Level, Risk of Asthma, and Lung Function. <i>New England Journal of Medicine</i> , 2008, 358, 1682-1691.	27.0	445
7	Role of breast regression protein 39 (BRP-39)/chitinase 3-like-1 in Th2 and IL-13-induced tissue responses and apoptosis. <i>Journal of Experimental Medicine</i> , 2009, 206, 1149-1166.	8.5	376
8	New insights into the pathogenesis of asthma. <i>Journal of Clinical Investigation</i> , 2003, 111, 291-297.	8.2	344
9	Early Growth Response Gene 1-mediated Apoptosis Is Essential for Transforming Growth Factor β 1-induced Pulmonary Fibrosis. <i>Journal of Experimental Medicine</i> , 2004, 200, 377-389.	8.5	339
10	Chitinase 3-like 1 Regulates Cellular and Tissue Responses via IL-13 Receptor β 2. <i>Cell Reports</i> , 2013, 4, 830-841.	6.4	244
11	Chitinases and chitinase-like proteins in TH2 inflammation and asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2005, 116, 497-500.	2.9	209
12	Cigarette smoke selectively enhances viral PAMP and virus-induced pulmonary innate immune and remodeling responses in mice. <i>Journal of Clinical Investigation</i> , 2008, 118, 2771-84.	8.2	194
13	Chitinase 3-Like 1 Suppresses Injury and Promotes Fibroproliferative Responses in Mammalian Lung Fibrosis. <i>Science Translational Medicine</i> , 2014, 6, 240ra76.	12.4	162
14	Chitin Recognition via Chitotriosidase Promotes Pathologic Type-2 Helper T Cell Responses to Cryptococcal Infection. <i>PLoS Pathogens</i> , 2015, 11, e1004701.	4.7	162
15	Semaphorin 7A plays a critical role in TGF- β 1-induced pulmonary fibrosis. <i>Journal of Experimental Medicine</i> , 2007, 204, 1083-1093.	8.5	160
16	Epithelial Cell Mitochondrial Dysfunction and PINK1 Are Induced by Transforming Growth Factor- β 1 in Pulmonary Fibrosis. <i>PLoS ONE</i> , 2015, 10, e0121246.	2.5	144
17	Carbon monoxide attenuates aeroallergen-induced inflammation in mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2001, 281, L209-L216.	2.9	137
18	Chitinase 3-like-1 Promotes <i>Streptococcus pneumoniae</i> Killing and Augments Host Tolerance to Lung Antibacterial Responses. <i>Cell Host and Microbe</i> , 2012, 12, 34-46.	11.0	134

#	ARTICLE	IF	CITATIONS
19	Amphiregulin, an Epidermal Growth Factor Receptor Ligand, Plays an Essential Role in the Pathogenesis of Transforming Growth Factor- β -induced Pulmonary Fibrosis. <i>Journal of Biological Chemistry</i> , 2012, 287, 41991-42000.	3.4	119
20	Semaphorin 7a ⁺ Regulatory T Cells Are Associated with Progressive Idiopathic Pulmonary Fibrosis and Are Implicated in Transforming Growth Factor- β -induced Pulmonary Fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 187, 180-188.	5.6	106
21	Interleukin-11 Up-Regulates Survivin Expression in Endothelial Cells through a Signal Transducer and Activator of Transcription-3 Pathway. <i>Laboratory Investigation</i> , 2001, 81, 327-334.	3.7	105
22	The Chitinase-like Proteins Breast Regression Protein-39 and YKL-40 Regulate Hyperoxia-induced Acute Lung Injury. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2010, 182, 918-928.	5.6	99
23	<i>Chi3l1</i> /YKL-40 is controlled by the astrocyte circadian clock and regulates neuroinflammation and Alzheimer's disease pathogenesis. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	98
24	Rhinovirus stimulation of interleukin-8 in vivo and in vitro: role of NF- κ B. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1997, 273, L814-L824.	2.9	97
25	IL-13 β 2 uses TMEM219 in chitinase 3-like-1-induced signalling and effector responses. <i>Nature Communications</i> , 2016, 7, 12752.	12.8	92
26	Chitinase 1 Is a Biomarker for and Therapeutic Target in Scleroderma-Associated Interstitial Lung Disease That Augments TGF- β 1 Signaling. <i>Journal of Immunology</i> , 2012, 189, 2635-2644.	0.8	90
27	Genetic Variation in the Promoter Region of <i>Chitinase 3-Like 1</i> Is Associated with Atopy. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009, 179, 449-456.	5.6	79
28	Mitochondrial Dysfunction as a Pathogenic Mediator of Chronic Obstructive Pulmonary Disease and Idiopathic Pulmonary Fibrosis. <i>Annals of the American Thoracic Society</i> , 2018, 15, S266-S272.	3.2	79
29	Chitinase 3-like-1 Regulates Both Visceral Fat Accumulation and Asthma-like Th2 Inflammation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2015, 191, 746-757.	5.6	78
30	State of the Art. Mechanistic Heterogeneity in Chronic Obstructive Pulmonary Disease: Insights from Transgenic Mice. <i>Proceedings of the American Thoracic Society</i> , 2006, 3, 494-498.	3.5	75
31	Regulation of chitinase-3-like-1 in T cell elicits Th1 and cytotoxic responses to inhibit lung metastasis. <i>Nature Communications</i> , 2018, 9, 503.	12.8	72
32	Chitinase 3-like 1 induces survival and proliferation of intestinal epithelial cells during chronic inflammation and colitis-associated cancer by regulating S100A9. <i>Oncotarget</i> , 2015, 6, 36535-36550.	1.8	72
33	Role of Chitinase 3-like-1 and Semaphorin 7a in Pulmonary Melanoma Metastasis. <i>Cancer Research</i> , 2015, 75, 487-496.	0.9	71
34	Role of Breast Regression Protein-39 in the Pathogenesis of Cigarette Smoke-Induced Inflammation and Emphysema. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2011, 44, 777-786.	2.9	67
35	Role of breast regression protein-39/YKL-40 in asthma and allergic responses. <i>Allergy, Asthma and Immunology Research</i> , 2010, 2, 20.	2.9	66
36	Suppression of NLRX1 in chronic obstructive pulmonary disease. <i>Journal of Clinical Investigation</i> , 2015, 125, 2458-2462.	8.2	65

#	ARTICLE	IF	CITATIONS
37	VEGF-induced heme oxygenase-1 confers cytoprotection from lethal hyperoxia in vivo. FASEB Journal, 2007, 21, 1422-1432.	0.5	62
38	Modifiers of TGF- β 1 effector function as novel therapeutic targets of pulmonary fibrosis. Korean Journal of Internal Medicine, 2014, 29, 281.	1.7	62
39	Chitinase 3-like-1 and its receptors in Hermansky-Pudlak syndrome-associated lung disease. Journal of Clinical Investigation, 2015, 125, 3178-3192.	8.2	54
40	Antifibrotic role of vascular endothelial growth factor in pulmonary fibrosis. JCI Insight, 2017, 2, .	5.0	51
41	Role of Chitinase 3-like-1 in Interleukin-18-Induced Pulmonary Type 1, Type 2, and Type 17 Inflammation; Alveolar Destruction; and Airway Fibrosis in the Murine Lung. American Journal of Respiratory Cell and Molecular Biology, 2015, 53, 863-871.	2.9	50
42	Plexin C1 deficiency permits synaptotagmin 7-mediated macrophage migration and enhances mammalian lung fibrosis. FASEB Journal, 2016, 30, 4056-4070.	0.5	50
43	YKL-40 Associates with Renal Recovery in Deceased Donor Kidney Transplantation. Journal of the American Society of Nephrology: JASN, 2017, 28, 661-670.	6.1	50
44	In the Shadow of Fibrosis: Innate Immune Suppression Mediated by Transforming Growth Factor- β 2. American Journal of Respiratory Cell and Molecular Biology, 2016, 55, 759-766.	2.9	47
45	Plasma Levels of the Proinflammatory Chitinase-Binding Glycoprotein YKL-40, Variation in the Chitinase 3-like 1 Gene (<i>CHI3L1</i>), and Incident Cardiovascular Events. Journal of the American Heart Association, 2014, 3, e000897.	3.7	44
46	Acidic Mammalian Chitinase Regulates Epithelial Cell Apoptosis via a Chitinolytic-Independent Mechanism. Journal of Immunology, 2009, 182, 5098-5106.	0.8	43
47	Chitinase 3-like 1 drives allergic skin inflammation via Th2 immunity and M2 macrophage activation. Clinical and Experimental Allergy, 2019, 49, 1464-1474.	2.9	43
48	Local apoptosis promotes collagen production by monocyte-derived cells in transforming growth factor β 1-induced lung fibrosis. Fibrogenesis and Tissue Repair, 2011, 4, 12.	3.4	39
49	Galectin-3 Interacts with the CHI3L1 Axis and Contributes to Hermansky-Pudlak Syndrome Lung Disease. Journal of Immunology, 2018, 200, 2140-2153.	0.8	38
50	Clinical Effectiveness of Incentive Spirometry for the Prevention of Postoperative Pulmonary Complications. Respiratory Care, 2018, 63, 347-352.	1.6	38
51	Cytokine-Cytokine Interactions in the Context of Cytokine Networking. American Journal of Respiratory Cell and Molecular Biology, 1992, 7, 365-367.	2.9	36
52	Potential role of chitinase-3-like protein 1 (CHI3L1/YKL-40) in neurodegeneration and Alzheimer's disease. Alzheimer's and Dementia, 2023, 19, 9-24.	0.8	35
53	Self-assembled Micelle Interfering RNA for Effective and Safe Targeting of Dysregulated Genes in Pulmonary Fibrosis. Journal of Biological Chemistry, 2016, 291, 6433-6446.	3.4	34
54	Interleukin-13 and Leukotrienes. American Journal of Respiratory Cell and Molecular Biology, 2003, 28, 401-404.	2.9	33

#	ARTICLE	IF	CITATIONS
55	Chitinase 3-Like 1 Contributes to Food Allergy via M2 Macrophage Polarization. <i>Allergy, Asthma and Immunology Research</i> , 2020, 12, 1012.	2.9	31
56	Chitinase 3-Like 1 protein plays a critical role in respiratory syncytial virus-induced airway inflammation. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 685-697.	5.7	29
57	Proteome-Wide Analysis Using SOMAscan Identifies and Validates Chitinase-3-Like Protein 1 as a Risk and Disease Marker of Delirium Among Older Adults Undergoing Major Elective Surgery. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2022, 77, 484-493.	3.6	27
58	Chitinase 3-Like 1 (Chil1) Regulates Survival and Macrophage-Mediated Interleukin-1 β and Tumor Necrosis Factor Alpha during <i>Pseudomonas aeruginosa</i> Pneumonia. <i>Infection and Immunity</i> , 2016, 84, 2094-2104.	2.2	26
59	Chitinase 1 regulates pulmonary fibrosis by modulating TGF- β 2/SMAD7 pathway via TGFBRAP1 and FOXO3. <i>Life Science Alliance</i> , 2019, 2, e201900350.	2.8	26
60	CHI3L1 regulates PD-L1 and anti-CHI3L1-PD-1 antibody elicits synergistic antitumor responses. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	25
61	Laminin β 1 is a genetic modifier of TGF- β 2-stimulated pulmonary fibrosis. <i>JCI Insight</i> , 2018, 3, .	5.0	24
62	Chitinase 3-like-1 is a therapeutic target that mediates the effects of aging in COVID-19. <i>JCI Insight</i> , 2021, 6, .	5.0	23
63	MEK inhibitors reduce cellular expression of ACE2, pERK, pRb while stimulating NK-mediated cytotoxicity and attenuating inflammatory cytokines relevant to SARS-CoV-2 infection. <i>Oncotarget</i> , 2020, 11, 4201-4223.	1.8	22
64	RIG-like Helicase Regulation of Chitinase 3-like 1 Axis and Pulmonary Metastasis. <i>Scientific Reports</i> , 2016, 6, 26299.	3.3	21
65	Cytokine ranking via mutual information algorithm correlates cytokine profiles with presenting disease severity in patients infected with SARS-CoV-2. <i>ELife</i> , 2021, 10, .	6.0	21
66	Chitinase 3-like-1 contributes to acetaminophen-induced liver injury by promoting hepatic platelet recruitment. <i>ELife</i> , 2021, 10, .	6.0	19
67	Integrated analyses of gene expression and genetic association studies in a founder population. <i>Human Molecular Genetics</i> , 2016, 25, 2104-2112.	2.9	18
68	IL-13-driven pulmonary emphysema leads to skeletal muscle dysfunction attenuated by endurance exercise. <i>Journal of Applied Physiology</i> , 2020, 128, 134-148.	2.5	18
69	Regulation and Role of Chitotriosidase during Lung Infection with <i>Klebsiella pneumoniae</i> . <i>Journal of Immunology</i> , 2018, 201, 615-626.	0.8	17
70	Club cell-specific role of programmed cell death 5 in pulmonary fibrosis. <i>Nature Communications</i> , 2021, 12, 2923.	12.8	17
71	Transgenic modeling of interleukin-13 in the lung. <i>Chest</i> , 2003, 123, 339S-45S.	0.8	14
72	Effect of an Incentive Spirometer Patient Reminder After Coronary Artery Bypass Grafting. <i>JAMA Surgery</i> , 2019, 154, 579.	4.3	13

#	ARTICLE	IF	CITATIONS
73	Role of Chitinase 3-Like 1 Protein in the Pathogenesis of Hepatic Insulin Resistance in Nonalcoholic Fatty Liver Disease. <i>Cells</i> , 2021, 10, 201.	4.1	12
74	Deaccelerated Myogenesis and Autophagy in Genetically Induced Pulmonary Emphysema. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022, 66, 623-637.	2.9	12
75	Regulation of Retinoic Acid Receptor Beta by Interleukin-15 in the Lung during Cigarette Smoking and Influenza Virus Infection. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015, 53, 822-833.	2.9	10
76	A Novel Regulatory Role of Activated Leukocyte Cell-Adhesion Molecule in the Pathogenesis of Pulmonary Fibrosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022, 66, 415-427.	2.9	10
77	Hypercapnia-Driven Skeletal Muscle Dysfunction in an Animal Model of Pulmonary Emphysema Suggests a Complex Phenotype. <i>Frontiers in Physiology</i> , 2020, 11, 600290.	2.8	9
78	SDH Subunit C Regulates Muscle Oxygen Consumption and Fatigability in an Animal Model of Pulmonary Emphysema. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2021, 65, 259-271.	2.9	9
79	Transforming growth factor β 1 alters the 3' UTR of mRNA to promote lung fibrosis. <i>Journal of Biological Chemistry</i> , 2019, 294, 15781-15794.	3.4	8
80	Targeting Chitinase 1 and Chitinase 3-Like 1 as Novel Therapeutic Strategy of Pulmonary Fibrosis. <i>Frontiers in Pharmacology</i> , 2022, 13, 826471.	3.5	7
81	Chitotriosidase Activity Is Counterproductive in a Mouse Model of Systemic Candidiasis. <i>Frontiers in Immunology</i> , 2021, 12, 626798.	4.8	3
82	Sputum Gene Expression of IL-13 Receptor α 2 Chain Correlates with Airflow Obstruction and Helper T-Cell Type 2 Inflammation in Asthma. <i>Annals of the American Thoracic Society</i> , 2016, 13 Suppl 1, S96-7.	3.2	3
83	Host chitinase 3-like-1 is a universal therapeutic target for SARS-CoV-2 viral variants in COVID-19. <i>ELife</i> , 2021, 10, 11, .	6.0	2
84	Nasal Microbiome Composition Is Associated with Chitotriosidase (Chit1) Activity in Adult Hutterites. <i>Annals of the American Thoracic Society</i> , 2016, 13 Suppl 1, S100-1.	3.2	1