Jack A Elias

List of Publications by Year
in descending order

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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	Potential role of chitinaseâ€3â€like protein 1 (CHI3L1/YKLâ€40) in neurodegeneration and Alzheimer's disease. Alzheimer's and Dementia, 2023, 19, 9-24.	0.8	35
2	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. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2022, 77, 484-493.	3.6	27
3	A Novel Regulatory Role of Activated Leukocyte Cell-Adhesion Molecule in the Pathogenesis of Pulmonary Fibrosis. American Journal of Respiratory Cell and Molecular Biology, 2022, 66, 415-427.	2.9	10
4	Targeting Chitinase 1 and Chitinase 3-Like 1 as Novel Therapeutic Strategy of Pulmonary Fibrosis. Frontiers in Pharmacology, 2022, 13, 826471.	3.5	7
5	Deaccelerated Myogenesis and Autophagy in Genetically Induced Pulmonary Emphysema. American Journal of Respiratory Cell and Molecular Biology, 2022, 66, 623-637.	2.9	12
6	Chitotriosidase Activity Is Counterproductive in a Mouse Model of Systemic Candidiasis. Frontiers in Immunology, 2021, 12, 626798.	4.8	3
7	Club cell-specific role of programmed cell death 5 in pulmonary fibrosis. Nature Communications, 2021, 12, 2923.	12.8	17
8	Chitinase 3-like-1 contributes to acetaminophen-induced liver injury by promoting hepatic platelet recruitment. ELife, 2021, 10, .	6.0	19
9	SDH Subunit C Regulates Muscle Oxygen Consumption and Fatigability in an Animal Model of Pulmonary Emphysema. American Journal of Respiratory Cell and Molecular Biology, 2021, 65, 259-271.	2.9	9
10	Role of Chitinase 3-Like 1 Protein in the Pathogenesis of Hepatic Insulin Resistance in Nonalcoholic Fatty Liver Disease. Cells, 2021, 10, 201.	4.1	12
11	Cytokine ranking via mutual information algorithm correlates cytokine profiles with presenting disease severity in patients infected with SARS-CoV-2. ELife, 2021, 10, .	6.0	21
12	CHI3L1 regulates PD-L1 and antiâ€“CHI3L1â€“PD-1 antibody elicits synergistic antitumor responses. Journal of Clinical Investigation, 2021, 131, .	8.2	25
13	Chitinase 3-like-1 is a therapeutic target that mediates the effects of aging in COVID-19. JCI Insight, 2021, 6, .	5.0	23
14	IL-13-driven pulmonary emphysema leads to skeletal muscle dysfunction attenuated by endurance exercise. Journal of Applied Physiology, 2020, 128, 134-148.	2.5	18
15	Chi3l1 /YKL-40 is controlled by the astrocyte circadian clock and regulates neuroinflammation and Alzheimerâ€™s disease pathogenesis. Science Translational Medicine, 2020, 12, .	12.4	98
16	Hypercapnia-Driven Skeletal Muscle Dysfunction in an Animal Model of Pulmonary Emphysema Suggests a Complex Phenotype. Frontiers in Physiology, 2020, 11, 600290.	2.8	9
17	MEK inhibitors reduce cellular expression of ACE2, pERK, pRb while stimulating NK-mediated cytotoxicity and attenuating inflammatory cytokines relevant to SARS-CoV-2 infection. Oncotarget, 2020, 11, 4201-4223.	1.8	22
18	Chitinase 3-Like 1 Contributes to Food Allergy via M2 Macrophage Polarization. Allergy, Asthma and Immunology Research, 2020, 12, 1012.	2.9	31

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19	Chitinase 3â€like 1 drives allergic skin inflammation via Th2 immunity and M2 macrophage activation. Clinical and Experimental Allergy, 2019, 49, 1464-1474.	2.9	43
20	Transforming growth factor Î²1 alters the 3â€²-UTR of mRNA to promote lung fibrosis. Journal of Biological Chemistry, 2019, 294, 15781-15794.	3.4	8
21	Effect of an Incentive Spirometer Patient Reminder After Coronary Artery Bypass Grafting. JAMA Surgery, 2019, 154, 579.	4.3	13
22	Chitinase 3â€like 1 protein plays a critical role in respiratory syncytial virusâ€induced airway inflammation. Allergy: European Journal of Allergy and Clinical Immunology, 2019, 74, 685-697.	5.7	29
23	Chitinase 1 regulates pulmonary fibrosis by modulating TGF-Î²/SMAD7 pathway via TGFBRAP1 and FOXO3. Life Science Alliance, 2019, 2, e201900350.	2.8	26
24	Regulation of chitinase-3-like-1 in T cell elicits Th1 and cytotoxic responses to inhibit lung metastasis. Nature Communications, 2018, 9, 503.	12.8	72
25	Galectin-3 Interacts with the CHI3L1 Axis and Contributes to Hermanskyâ€“Pudlak Syndrome Lung Disease. Journal of Immunology, 2018, 200, 2140-2153.	0.8	38
26	Clinical Effectiveness of Incentive Spirometry for the Prevention of Postoperative Pulmonary Complications. Respiratory Care, 2018, 63, 347-352.	1.6	38
27	Mitochondrial Dysfunction as a Pathogenic Mediator of Chronic Obstructive Pulmonary Disease and Idiopathic Pulmonary Fibrosis. Annals of the American Thoracic Society, 2018, 15, S266-S272.	3.2	79
28	Regulation and Role of Chitotriosidase during Lung Infection with Klebsiella pneumoniae. Journal of Immunology, 2018, 201, 615-626.	0.8	17
29	Laminin Î±1 is a genetic modifier of TGF-Î²1â€“stimulated pulmonary fibrosis. JCI Insight, 2018, 3, .	5.0	24
30	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
31	Antifibrotic role of vascular endothelial growth factor in pulmonary fibrosis. JCI Insight, 2017, 2, .	5.0	51
32	RIG-like Helicase Regulation of Chitinase 3-like 1 Axis and Pulmonary Metastasis. Scientific Reports, 2016, 6, 26299.	3.3	21
33	Integrated analyses of gene expression and genetic association studies in a founder population. Human Molecular Genetics, 2016, 25, 2104-2112.	2.9	18
34	Chitinase 3-Like 1 (Chil1) Regulates Survival and Macrophage-Mediated Interleukin-1Î² and Tumor Necrosis Factor Alpha during Pseudomonas aeruginosa Pneumonia. Infection and Immunity, 2016, 84, 2094-2104.	2.2	26
35	In the Shadow of Fibrosis: Innate Immune Suppression Mediated by Transforming Growth Factor-Î². American Journal of Respiratory Cell and Molecular Biology, 2016, 55, 759-766.	2.9	47
36	IL-13RÎ±2 uses TMEM219 in chitinase 3-like-1-induced signalling and effector responses. Nature Communications, 2016, 7, 12752.	12.8	92

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37	Plexin C1 deficiency permits synaptotagmin 7â€“mediated macrophage migration and enhances mammalian lung fibrosis. FASEB Journal, 2016, 30, 4056-4070.	0.5	50
38	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
39	Nasal Microbiome Composition Is Associated with Chitotriosidase (Chit1) Activity in Adult Hutterites. Annals of the American Thoracic Society, 2016, 13 Suppl 1, S100-1.	3.2	1
40	Sputum Gene Expression of IL-13 Receptor Î±2 Chain Correlates with Airflow Obstruction and Helper T-Cell Type 2 Inflammation in Asthma. Annals of the American Thoracic Society, 2016, 13 Suppl 1, S96-7.	3.2	3
41	Epithelial Cell Mitochondrial Dysfunction and PINK1 Are Induced by Transforming Growth Factor-Beta1 in Pulmonary Fibrosis. PLoS ONE, 2015, 10, e0121246.	2.5	144
42	Role of Chitinase 3â€“like-1 and Semaphorin 7a in Pulmonary Melanoma Metastasis. Cancer Research, 2015, 75, 487-496.	0.9	71
43	Chitinase 3â€“like-1 Regulates Both Visceral Fat Accumulation and Asthma-like Th2 Inflammation. American Journal of Respiratory and Critical Care Medicine, 2015, 191, 746-757.	5.6	78
44	Chitin Recognition via Chitotriosidase Promotes Pathologic Type-2 Helper T Cell Responses to Cryptococcal Infection. PLoS Pathogens, 2015, 11, e1004701.	4.7	162
45	Role of Chitinase 3â€“Like-1 in Interleukin-18â€“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
46	Regulation of Retinoic Acid Receptor Beta by Interleukin-15 in the Lung during Cigarette Smoking and Influenza Virus Infection. American Journal of Respiratory Cell and Molecular Biology, 2015, 53, 822-833.	2.9	10
47	Suppression of NLRX1 in chronic obstructive pulmonary disease. Journal of Clinical Investigation, 2015, 125, 2458-2462.	8.2	65
48	Chitinase 3â€“likeâ€“1 and its receptors in Hermansky-Pudlak syndromeâ€“associated lung disease. Journal of Clinical Investigation, 2015, 125, 3178-3192.	8.2	54
49	Chitinase 3-like 1 induces survival and proliferation of intestinal epithelial cells during chronic inflammation and colitis-associated cancer by regulating S100A9. Oncotarget, 2015, 6, 36535-36550.	1.8	72
50	Modifiers of TGF-Î²1 effector function as novel therapeutic targets of pulmonary fibrosis. Korean Journal of Internal Medicine, 2014, 29, 281.	1.7	62
51	Chitinase 3â€“Like 1 Suppresses Injury and Promotes Fibroproliferative Responses in Mammalian Lung Fibrosis. Science Translational Medicine, 2014, 6, 240ra76.	12.4	162
52	Plasma Levels of the Proinflammatory Chitinâ€Binding Glycoprotein YKLâ€40, Variation in the Chitinase 3â€Like 1 Gene (CHI3L1), and Incident Cardiovascular Events. Journal of the American Heart Association, 2014, 3, e000897.	3.7	44
53	Chitinase 3-like 1 Regulates Cellular and Tissue Responses via IL-13 Receptor Î±2. Cell Reports, 2013, 4, 830-841.	6.4	244
54	Semaphorin 7a⁺ Regulatory T Cells Are Associated with Progressive Idiopathic Pulmonary Fibrosis and Are Implicated in Transforming Growth Factor-Î²1â€“induced Pulmonary Fibrosis. American Journal of Respiratory and Critical Care Medicine, 2013, 187, 180-188.	5.6	106

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55	Chitinase 1 Is a Biomarker for and Therapeutic Target in Scleroderma-Associated Interstitial Lung Disease That Augments TGF-Î²1 Signaling. Journal of Immunology, 2012, 189, 2635-2644.	0.8	90
56	Amphiregulin, an Epidermal Growth Factor Receptor Ligand, Plays an Essential Role in the Pathogenesis of Transforming Growth Factor-Î²-induced Pulmonary Fibrosis. Journal of Biological Chemistry, 2012, 287, 41991-42000.	3.4	119
57	Chitinase 3-like-1 Promotes Streptococcus pneumoniae Killing and Augments Host Tolerance to Lung Antibacterial Responses. Cell Host and Microbe, 2012, 12, 34-46.	11.0	134
58	Role of Chitin and Chitinase/Chitinase-Like Proteins in Inflammation, Tissue Remodeling, and Injury. Annual Review of Physiology, 2011, 73, 479-501.	13.1	700
59	Local apoptosis promotes collagen production by monocyte-derived cells in transforming growth factor Î²1-induced lung fibrosis. Fibrogenesis and Tissue Repair, 2011, 4, 12.	3.4	39
60	Role of Breast Regression Proteinâ€“39 in the Pathogenesis of Cigarette Smokeâ€“Induced Inflammation and Emphysema. American Journal of Respiratory Cell and Molecular Biology, 2011, 44, 777-786.	2.9	67
61	Role of breast regression protein-39/YKL-40 in asthma and allergic responses. Allergy, Asthma and Immunology Research, 2010, 2, 20.	2.9	66
62	The Chitinase-like Proteins Breast Regression Protein-39 and YKL-40 Regulate Hyperoxia-induced Acute Lung Injury. American Journal of Respiratory and Critical Care Medicine, 2010, 182, 918-928.	5.6	99
63	Role of breast regression protein 39 (BRP-39)/chitinase 3-like-1 in Th2 and IL-13â€“induced tissue responses and apoptosis. Journal of Experimental Medicine, 2009, 206, 1149-1166.	8.5	376
64	Acidic Mammalian Chitinase Regulates Epithelial Cell Apoptosis via a Chitinolytic-Independent Mechanism. Journal of Immunology, 2009, 182, 5098-5106.	0.8	43
65	Genetic Variation in the Promoter Region of Chitinase 3-Like 1 Is Associated with Atopy. American Journal of Respiratory and Critical Care Medicine, 2009, 179, 449-456.	5.6	79
66	Effect of Variation inCHI3L1on Serum YKL-40 Level, Risk of Asthma, and Lung Function. New England Journal of Medicine, 2008, 358, 1682-1691.	27.0	445
67	Cigarette smoke selectively enhances viral PAMPâ€“ and virus-induced pulmonary innate immune and remodeling responses in mice. Journal of Clinical Investigation, 2008, 118, 2771-84.	8.2	194
68	A Chitinase-like Protein in the Lung and Circulation of Patients with Severe Asthma. New England Journal of Medicine, 2007, 357, 2016-2027.	27.0	512
69	Semaphorin 7A plays a critical role in TGF-Î²1â€“induced pulmonary fibrosis. Journal of Experimental Medicine, 2007, 204, 1083-1093.	8.5	160
70	VEGFâ€induced heme oxygenaseâ€1 confers cytoprotection from lethal hyperoxia in vivo. FASEB Journal, 2007, 21, 1422-1432.	0.5	62
71	State of the Art. Mechanistic Heterogeneity in Chronic Obstructive Pulmonary Disease: Insights from Transgenic Mice. Proceedings of the American Thoracic Society, 2006, 3, 494-498.	3.5	75
72	Chitinases and chitinase-like proteins in TH2 inflammation and asthma. Journal of Allergy and Clinical Immunology, 2005, 116, 497-500.	2.9	209

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73	Acidic Mammalian Chitinase in Asthmatic Th2 Inflammation and IL-13 Pathway Activation. Science, 2004, 304, 1678-1682.	12.6	759
74	Early Growth Response Gene 1â€“mediated Apoptosis Is Essential for Transforming Growth Factor Î²1â€“induced Pulmonary Fibrosis. Journal of Experimental Medicine, 2004, 200, 377-389.	8.5	339
75	Vascular endothelial growth factor (VEGF) induces remodeling and enhances TH2-mediated sensitization and inflammation in the lung. Nature Medicine, 2004, 10, 1095-1103.	30.7	549
76	Interleukin-13 and Leukotrienes. American Journal of Respiratory Cell and Molecular Biology, 2003, 28, 401-404.	2.9	33
77	New insights into the pathogenesis of asthma. Journal of Clinical Investigation, 2003, 111, 291-297.	8.2	344
78	Transgenic modeling of interleukin-13 in the lung. Chest, 2003, 123, 339S-45S.	0.8	14
79	Carbon monoxide attenuates aeroallergen-induced inflammation in mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2001, 281, L209-L216.	2.9	137
80	Interleukin-11 Up-Regulates Survivin Expression in Endothelial Cells through a Signal Transducer and Activator of Transcription-3 Pathway. Laboratory Investigation, 2001, 81, 327-334.	3.7	105
81	Interleukin-13 Induces Tissue Fibrosis by Selectively Stimulating and Activating Transforming Growth Factor Î²1. Journal of Experimental Medicine, 2001, 194, 809-822.	8.5	845
82	Rhinovirus stimulation of interleukin-8 in vivo and in vitro: role of NF-Î°B. American Journal of Physiology - Lung Cellular and Molecular Physiology, 1997, 273, L814-L824.	2.9	97
83	Cytokine-Cytokine Interactions in the Context of Cytokine Networking. American Journal of Respiratory Cell and Molecular Biology, 1992, 7, 365-367.	2.9	36
84	Host chitinase 3-like-1 is a universal therapeutic target for SARS-CoV-2 viral variants in COVID-19. ELife, 0, 11, .	6.0	2