

# Chun Geun Lee

## List of Publications by Year in descending order

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73  
papers

7,266  
citations

87888

38  
h-index

82547

72  
g-index

84  
all docs

84  
docs citations

84  
times ranked

8871  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interleukin-13 Induces Tissue Fibrosis by Selectively Stimulating and Activating Transforming Growth Factor $\beta$ 1. <i>Journal of Experimental Medicine</i> , 2001, 194, 809-822.	8.5	845
2	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
3	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
4	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
5	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
6	Early Growth Response Gene 1-mediated Apoptosis Is Essential for Transforming Growth Factor $\beta$ 1-induced Pulmonary Fibrosis. <i>Journal of Experimental Medicine</i> , 2004, 200, 377-389.	8.5	339
7	Chitin regulation of immune responses: an old molecule with new roles. <i>Current Opinion in Immunology</i> , 2008, 20, 684-689.	5.5	315
8	Chitinase 3-like 1 Regulates Cellular and Tissue Responses via IL-13 Receptor $\beta$ 2. <i>Cell Reports</i> , 2013, 4, 830-841.	6.4	244
9	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
10	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
11	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
12	Epithelial Cell Mitochondrial Dysfunction and PINK1 Are Induced by Transforming Growth Factor-Beta1 in Pulmonary Fibrosis. <i>PLoS ONE</i> , 2015, 10, e0121246.	2.5	144
13	Transgenic Overexpression of Interleukin (IL)-10 in the Lung Causes Mucus Metaplasia, Tissue Inflammation, and Airway Remodeling via IL-13-dependent and -independent Pathways. <i>Journal of Biological Chemistry</i> , 2002, 277, 35466-35474.	3.4	139
14	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
15	Chitin, Chitinases and Chitinase-like Proteins in Allergic Inflammation and Tissue Remodeling. <i>Yonsei Medical Journal</i> , 2009, 50, 22.	2.2	122
16	Amphiregulin, an Epidermal Growth Factor Receptor Ligand, Plays an Essential Role in the Pathogenesis of Transforming Growth Factor- $\beta$ 2-induced Pulmonary Fibrosis. <i>Journal of Biological Chemistry</i> , 2012, 287, 41991-42000.	3.4	119
17	Transgenic Modeling of Transforming Growth Factor- $\beta$ 1: Role of Apoptosis in Fibrosis and Alveolar Remodeling. <i>Proceedings of the American Thoracic Society</i> , 2006, 3, 418-423.	3.5	107
18	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

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19	IL-13R $\alpha$ 2 uses TMEM219 in chitinase 3-like-1-induced signalling and effector responses. <i>Nature Communications</i> , 2016, 7, 12752.	12.8	92
20	Chitinase 1 Is a Biomarker for and Therapeutic Target in Scleroderma-Associated Interstitial Lung Disease That Augments TGF- $\beta$ 1 Signaling. <i>Journal of Immunology</i> , 2012, 189, 2635-2644.	0.8	90
21	IL-18 Induces Emphysema and Airway and Vascular Remodeling via IFN- $\gamma$ , IL-17A, and IL-13. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2012, 185, 1205-1217.	5.6	85
22	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
23	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
24	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
25	Role of Chitinase 3-like-1 and Semaphorin 7a in Pulmonary Melanoma Metastasis. <i>Cancer Research</i> , 2015, 75, 487-496.	0.9	71
26	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
27	Studies of Vascular Endothelial Growth Factor in Asthma and Chronic Obstructive Pulmonary Disease. <i>Proceedings of the American Thoracic Society</i> , 2011, 8, 512-515.	3.5	67
28	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
29	Suppression of NLRX1 in chronic obstructive pulmonary disease. <i>Journal of Clinical Investigation</i> , 2015, 125, 2458-2462.	8.2	65
30	Modifiers of TGF- $\beta$ 1 effector function as novel therapeutic targets of pulmonary fibrosis. <i>Korean Journal of Internal Medicine</i> , 2014, 29, 281.	1.7	62
31	Endogenous IL-11 Signaling Is Essential in Th2- and IL-13-Induced Inflammation and Mucus Production. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2008, 39, 739-746.	2.9	56
32	Chitinase 3-like-1 and its receptors in Hermansky-Pudlak syndrome-associated lung disease. <i>Journal of Clinical Investigation</i> , 2015, 125, 3178-3192.	8.2	54
33	AMCase is a crucial regulator of type 2 immune responses to inhaled house dust mites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2891-9.	7.1	51
34	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. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2015, 53, 863-871.	2.9	50
35	YKL-40 Associates with Renal Recovery in Deceased Donor Kidney Transplantation. <i>Journal of the American Society of Nephrology: JASN</i> , 2017, 28, 661-670.	6.1	50
36	COPD as a Disease of Immunosenescence. <i>Yonsei Medical Journal</i> , 2019, 60, 407.	2.2	48

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37	Acidic Mammalian Chitinase Regulates Epithelial Cell Apoptosis via a Chitinolytic-Independent Mechanism. <i>Journal of Immunology</i> , 2009, 182, 5098-5106.	0.8	43
38	Chitinase 3-Like 1 drives allergic skin inflammation via Th2 immunity and M2 macrophage activation. <i>Clinical and Experimental Allergy</i> , 2019, 49, 1464-1474.	2.9	43
39	Chitotriosidase in the Pathogenesis of Inflammation, Interstitial Lung Diseases and COPD. <i>Allergy, Asthma and Immunology Research</i> , 2015, 7, 14.	2.9	41
40	Galectin-3 Interacts with the CHI3L1 Axis and Contributes to Hermansky-Pudlak Syndrome Lung Disease. <i>Journal of Immunology</i> , 2018, 200, 2140-2153.	0.8	38
41	Potential role of chitinase-3-like protein 1 (CHI3L1/YKL40) in neurodegeneration and Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2023, 19, 9-24.	0.8	35
42	Self-assembled Micelle Interfering RNA for Effective and Safe Targeting of Dysregulated Genes in Pulmonary Fibrosis. <i>Journal of Biological Chemistry</i> , 2016, 291, 6433-6446.	3.4	34
43	Genetic Control of Transforming Growth Factor- $\beta$ 1-induced Emphysema and Fibrosis in the Murine Lung. <i>Proceedings of the American Thoracic Society</i> , 2006, 3, 476a-477.	3.5	31
44	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
45	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
46	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
47	Chitinase 1 regulates pulmonary fibrosis by modulating TGF- $\beta$ 2/SMAD7 pathway via TGFBRAP1 and FOXO3. <i>Life Science Alliance</i> , 2019, 2, e201900350.	2.8	26
48	Chitotriosidase inhibits allergic asthmatic airways via regulation of TGF- $\beta$ 2 expression and Foxp3 <sup>+</sup> Treg cells. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2018, 73, 1686-1699.	5.7	25
49	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
50	Laminin $\beta$ 1 is a genetic modifier of TGF- $\beta$ 1-stimulated pulmonary fibrosis. <i>JCI Insight</i> , 2018, 3, .	5.0	24
51	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
52	Chitinase-like Proteins in Lung Injury, Repair, and Metastasis. <i>Proceedings of the American Thoracic Society</i> , 2012, 9, 57-61.	3.5	22
53	RIG-like Helicase Regulation of Chitinase 3-like 1 Axis and Pulmonary Metastasis. <i>Scientific Reports</i> , 2016, 6, 26299.	3.3	21
54	Chitinase 3-like-1 contributes to acetaminophen-induced liver injury by promoting hepatic platelet recruitment. <i>ELife</i> , 2021, 10, .	6.0	19

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55	Immunomodulation of Host Chitinase 3-Like 1 During a Mammary Pathogenic Escherichia coli Infection. <i>Frontiers in Immunology</i> , 2018, 9, 1143.	4.8	18
56	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
57	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
58	N-Glycosylation Regulates Chitinase 3-like-1 and IL-13 Ligand Binding to IL-13 Receptor $\beta 2$ . <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 63, 386-395.	2.9	17
59	Club cell-specific role of programmed cell death 5 in pulmonary fibrosis. <i>Nature Communications</i> , 2021, 12, 2923.	12.8	17
60	Distal airways are protected from goblet cell metaplasia by diminished expression of IL-13 signalling components. <i>Clinical and Experimental Allergy</i> , 2015, 45, 1447-1458.	2.9	15
61	Chitinase 3-like 1 promotes intrahepatic activation of coagulation through induction of tissue factor in mice. <i>Hepatology</i> , 2018, 67, 2384-2396.	7.3	15
62	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
63	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
64	Established Biomarkers of Chronic Obstructive Pulmonary Disease Reflect Skeletal Muscle Integrity's Response to Exercise in an Animal Model of Pulmonary Emphysema. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 63, 266-269.	2.9	10
65	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
66	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
67	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
68	Transforming growth factor $\beta 1$ alters the 3'-UTR of mRNA to promote lung fibrosis. <i>Journal of Biological Chemistry</i> , 2019, 294, 15781-15794.	3.4	8
69	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
70	Kasugamycin Is a Novel Chitinase 1 Inhibitor with Strong Antifibrotic Effects on Pulmonary Fibrosis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2022, 67, 309-319.	2.9	6
71	Chitotriosidase Activity Is Counterproductive in a Mouse Model of Systemic Candidiasis. <i>Frontiers in Immunology</i> , 2021, 12, 626798.	4.8	3
72	Sputum Gene Expression of IL-13 Receptor $\beta 2$ 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

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73	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