

Edward D Chan

List of Publications by Year in descending order

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120
papers

6,299
citations

81900

39
h-index

71685

76
g-index

125
all docs

125
docs citations

125
times ranked

8181
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of BCG Vaccination and Plasma Amyloid: A Prospective, Pilot Study with Implications for Alzheimer's Disease. <i>Microorganisms</i> , 2022, 10, 424.	3.6	6
2	Enoxaparin augments alpha-1-antitrypsin inhibition of TMPRSS2, a promising drug combination against COVID-19. <i>Scientific Reports</i> , 2022, 12, 5207.	3.3	8
3	Soil Properties and Moisture Synergistically Influence Nontuberculous Mycobacterial Prevalence in Natural Environments of Hawai'i. <i>Applied and Environmental Microbiology</i> , 2022, 88, e0001822.	3.1	7
4	Low Body Mass Index at Treatment Initiation and Rifampicin-Resistant Tuberculosis Treatment Outcomes: An Individual Participant Data Meta-Analysis. <i>Clinical Infectious Diseases</i> , 2022, 75, 2201-2210.	5.8	5
5	Characterization of Immune Cells From the Lungs of Patients With Chronic Non-Tuberculous Mycobacteria or <i>Pseudomonas aeruginosa</i> Infection. <i>Immune Network</i> , 2022, 22, .	3.6	3
6	Hypothesis: Alpha-1-antitrypsin is a promising treatment option for COVID-19. <i>Medical Hypotheses</i> , 2021, 146, 110394.	1.5	42
7	Measurable Genomic Changes in <i>Mycobacterium avium</i> subsp. <i>hominissuis</i> after Long-Term Adaptation in <i>Acanthamoeba lenticulata</i> and Reduced Persistence in Macrophages. <i>Journal of Bacteriology</i> , 2021, 203, .	2.2	5
8	24780 Investigating the role of mycobacterial lipid antigens and CD1-restricted T cells in host-protective tuberculosis immunity using a guinea pig model. <i>Journal of Clinical and Translational Science</i> , 2021, 5, 114-115.	0.6	0
9	Does Hypoxia Itself Beget Worsening Hypoxemia in COVID-19?. <i>Mayo Clinic Proceedings</i> , 2021, 96, 824-825.	3.0	0
10	The double-edged sword of Tregs in <i>M. tuberculosis</i> , <i>M. avium</i> , and <i>M. abscessus</i> infection. <i>Immunological Reviews</i> , 2021, 301, 48-61.	6.0	6
11	Further evidence that cigarette smoke and nicotine compromise host immunity against tuberculosis (invited editorial). <i>Tuberculosis</i> , 2021, 127, 102035.	1.9	0
12	Exposure Pathways of Nontuberculous Mycobacteria Through Soil, Streams, and Groundwater, Hawai'i, USA. <i>GeoHealth</i> , 2021, 5, e2020GH000350.	4.0	8
13	Adding Another Piece to the Puzzle of Why NTM Infections Are Relatively Uncommon despite Their Ubiquitous Nature. <i>MBio</i> , 2021, 12, .	4.1	2
14	Analysis of Non-TB Mycobacterial Lung Disease in Patients With Primary Sjögren's Syndrome at a Referral Center. <i>Chest</i> , 2021, 159, 2218-2221.	0.8	6
15	Mobile 3-dimensional (3D) C-arm system-assisted transbronchial biopsy and ablation for ground-glass opacity pulmonary nodules: a case report. <i>Translational Lung Cancer Research</i> , 2021, 10, 3312-3319.	2.8	10
16	Nontuberculous mycobacterial lung infections in patients with eating disorders: plausible mechanistic links in a case series. <i>AME Case Reports</i> , 2021, 5, 9-9.	0.6	7
17	Lower Recovery of Nontuberculous Mycobacteria from Outdoor Hawai'i Environmental Water Biofilms Compared to Indoor Samples. <i>Microorganisms</i> , 2021, 9, 224.	3.6	17
18	A 28-Year-Old Man With Chest Pain, Shortness of Breath, and Hemoptysis After Recovery From Coronavirus Disease 2019 Pneumonia. <i>Chest</i> , 2021, 159, e35-e38.	0.8	2

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19	Association of Leisure-Time Physical Activity With Health-Related Quality of Life Among US Lung Cancer Survivors. <i>JNCI Cancer Spectrum</i> , 2021, 5, .	2.9	4
20	What is the evidence that mycobacteria are associated with the pathogenesis of Sjogren's syndrome?. <i>Journal of Translational Autoimmunity</i> , 2021, 4, 100085.	4.0	8
21	Respiratory manifestations of Marfan syndrome: a narrative review. <i>Journal of Thoracic Disease</i> , 2021, 13, 6012-6025.	1.4	11
22	Histopathologic Analysis of Surgically Resected Lungs of Patients with Non-tuberculous Mycobacterial Lung Disease: a Retrospective and Hypothesis-generating Study.. <i>Yale Journal of Biology and Medicine</i> , 2021, 94, 527-535.	0.2	3
23	Nontuberculous Mycobacteria Show Differential Infectivity and Use Phospholipids to Antagonize LL-37. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 62, 354-363.	2.9	10
24	Use of glucocorticoids in the critical care setting: Science and clinical evidence. , 2020, 206, 107428.		26
25	Transgenic mice expressing human IL-32 develop adipokine profiles resembling those of obesity-induced metabolic changes. <i>Cytokine</i> , 2020, 125, 154793.	3.2	6
26	Bronchoalveolar lavage as a diagnostic procedure: a review of known cellular and molecular findings in various lung diseases. <i>Journal of Thoracic Disease</i> , 2020, 12, 4991-5019.	1.4	50
27	Non-tuberculous mycobacterial lung disease due to multiple "minor" risk factors: an illustrative case and a review of these "lesser elements". <i>Journal of Thoracic Disease</i> , 2020, 12, 4960-4972.	1.4	6
28	Non-Tuberculous Mycobacteria Interference with BCG-Current Controversies and Future Directions. <i>Vaccines</i> , 2020, 8, 688.	4.4	8
29	Assessment of Soil Features on the Growth of Environmental Nontuberculous Mycobacterial Isolates from Hawai'i. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	18
30	Drug discovery targeting drug-resistant nontuberculous mycobacteria. , 2020, , 361-376.		2
31	Animal Models of Mycobacteria Infection. <i>Current Protocols in Immunology</i> , 2020, 129, e98.	3.6	8
32	Are there common threads in the susceptibility to cancer and tuberculosis?. <i>Journal of Thoracic Disease</i> , 2020, 12, 1776-1780.	1.4	4
33	Differential Responses by Human Macrophages to Infection With <i>Mycobacterium tuberculosis</i> and Non-tuberculous Mycobacteria. <i>Frontiers in Microbiology</i> , 2020, 11, 116.	3.5	32
34	The Link between <i>Fusobacteria</i> and Colon Cancer: a Fulminant Example and Review of the Evidence. <i>Immune Network</i> , 2020, 20, e30.	3.6	13
35	The Progression of SARS Coronavirus 2 (SARS-CoV2): Mutation in the Receptor Binding Domain of Spike Gene. <i>Immune Network</i> , 2020, 20, e41.	3.6	26
36	Diagnostic evaluation of bronchiectasis. <i>Respiratory Medicine: X</i> , 2019, 1, 100006.	1.4	2

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37	Alpha-1-Antitrypsin Enhances Primary Human Macrophage Immunity Against Non-tuberculous Mycobacteria. <i>Frontiers in Immunology</i> , 2019, 10, 1417.	4.8	29
38	Upcycling Poly(ethylene terephthalate) Refuse to Advanced Therapeutics for the Treatment of Nosocomial and Mycobacterial Infections. <i>Macromolecules</i> , 2019, 52, 7878-7885.	4.8	33
39	Vitamin A Metabolism by Dendritic Cells Triggers an Antimicrobial Response against Mycobacterium tuberculosis. <i>MSphere</i> , 2019, 4, .	2.9	14
40	Mycobacterium avium Infection in a C3HeB/FeJ Mouse Model. <i>Frontiers in Microbiology</i> , 2019, 10, 693.	3.5	20
41	A paucity of knowledge regarding nontuberculous mycobacterial lipids compared to the tubercle bacillus. <i>Tuberculosis</i> , 2019, 115, 96-107.	1.9	21
42	Can physics principles help explain why non-tuberculous mycobacterial lung disease is more severe in the right middle lobe and lingula?. <i>Journal of Thoracic Disease</i> , 2019, 11, 4847-4854.	1.4	3
43	Vulnerability to Nontuberculous Mycobacterial Lung Disease or Systemic Infection Due to Genetic/Heritable Disorders. <i>Respiratory Medicine</i> , 2019, , 89-110.	0.1	4
44	Human Interleukin-32 β Plays a Protective Role in an Experimental Model of Visceral Leishmaniasis in Mice. <i>Infection and Immunity</i> , 2018, 86, .	2.2	14
45	Elucidating the Pathogenesis of Nontuberculous Mycobacterial Lung Disease: Lesson from the Six Blind Men and the Elephant. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 58, 142-143.	2.9	3
46	Thin body habitus is a risk factor for active pulmonary tuberculosis, but not for infection. <i>International Journal of Tuberculosis and Lung Disease</i> , 2018, 22, 967-968.	1.2	3
47	Ecological Analyses of Mycobacteria in Showerhead Biofilms and Their Relevance to Human Health. <i>MBio</i> , 2018, 9, .	4.1	90
48	Treatment correlates of successful outcomes in pulmonary multidrug-resistant tuberculosis: an individual patient data meta-analysis. <i>Lancet, The</i> , 2018, 392, 821-834.	13.7	452
49	Global Environmental Nontuberculous Mycobacteria and Their Contemporaneous Man-Made and Natural Niches. <i>Frontiers in Microbiology</i> , 2018, 9, 2029.	3.5	138
50	Reduced IFN- γ in Patients with Pulmonary Nontuberculous Mycobacterial Disease: Potentially Multiple Causes. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018, 59, 130-131.	2.9	1
51	Acquired and genetic host susceptibility factors and microbial pathogenic factors that predispose to nontuberculous mycobacterial infections. <i>Current Opinion in Immunology</i> , 2018, 54, 66-73.	5.5	30
52	Epidemiologic Evidence of and Potential Mechanisms by Which Second-Hand Smoke Causes Predisposition to Latent and Active Tuberculosis. <i>Immune Network</i> , 2018, 18, e22.	3.6	14
53	Treatment and outcomes in children with multidrug-resistant tuberculosis: A systematic review and individual patient data meta-analysis. <i>PLoS Medicine</i> , 2018, 15, e1002591.	8.4	96
54	Chronic Cavitory Infections Other than Tuberculosis. <i>Journal of Thoracic Imaging</i> , 2018, 33, 322-333.	1.5	8

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55	A 27-Year-Old Man With Acute Severe Low Back Pain and Bilateral Leg Swelling That Prompted Renting a Wheelchair for Mobility. <i>Chest</i> , 2017, 151, e35-e39.	0.8	0
56	Nicotine Impairs Macrophage Control of <i>Mycobacterium tuberculosis</i> . <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 57, 324-333.	2.9	48
57	<i>MST1R</i> mutation as a genetic cause of Lady Windermere syndrome. <i>European Respiratory Journal</i> , 2017, 49, 1601478.	6.7	18
58	Protein Kinase R Mediates the Inflammatory Response Induced by Hyperosmotic Stress. <i>Molecular and Cellular Biology</i> , 2017, 37, .	2.3	14
59	<i>Mycobacterium abscessus</i> Displays Fitness for Fomite Transmission. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	3.1	30
60	IL-32-induced Inflammatory Cytokines Are Selectively Suppressed by α 1-antitrypsin in Mouse Bone Marrow Cells. <i>Immune Network</i> , 2017, 17, 116.	3.6	7
61	Complete Genome Sequence of <i>Mycobacterium avium</i> subsp. <i>hominissuis</i> Strain H87 Isolated from an Indoor Water Sample. <i>Genome Announcements</i> , 2017, 5, .	0.8	17
62	Complete Genome Sequence of <i>Mycobacterium chimaera</i> Strain AH16. <i>Genome Announcements</i> , 2016, 4, .	0.8	11
63	Treatment of Non-Tuberculous Mycobacterial Lung Disease. <i>Current Treatment Options in Infectious Diseases</i> , 2016, 8, 275-296.	1.9	46
64	Curcumin enhances human macrophage control of <i>Mycobacterium tuberculosis</i> infection. <i>Respirology</i> , 2016, 21, 951-957.	2.3	67
65	Adaptation of <i>Mycobacterium tuberculosis</i> to Impaired Host Immunity in HIV-Infected Patients. <i>Journal of Infectious Diseases</i> , 2016, 214, 1205-1211.	4.0	19
66	A 65-Year-Old Groundskeeper With High Fever, Pulmonary Nodules, and Thoracic Lymphadenopathy. <i>Chest</i> , 2016, 149, e191-e194.	0.8	2
67	Comparing the temporal colonization and microbial diversity of showerhead biofilms in Hawai'i and Colorado. <i>FEMS Microbiology Letters</i> , 2016, 363, fnw005.	1.8	7
68	Environmental Nontuberculous Mycobacteria in the Hawaiian Islands. <i>PLoS Neglected Tropical Diseases</i> , 2016, 10, e0005068.	3.0	65
69	Natural Disasters and Nontuberculous Mycobacteria. <i>Chest</i> , 2015, 147, 304-308.	0.8	36
70	The role of interleukin-32 against tuberculosis. <i>Cytokine</i> , 2015, 76, 585-587.	3.2	12
71	Caspase-3-independent apoptotic pathways contribute to interleukin-32 β -mediated control of <i>Mycobacterium tuberculosis</i> infection in THP-1 cells. <i>BMC Microbiology</i> , 2015, 15, 39.	3.3	26
72	Human IL-32 expression protects mice against a hypervirulent strain of <i>Mycobacterium tuberculosis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 5111-5116.	7.1	43

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73	Epidemiologic link between tuberculosis and cigarette/biomass smoke exposure: Limitations despite the vast literature. <i>Respirology</i> , 2015, 20, 556-568.	2.3	22
74	Pathogenesis and Risk Factors for Nontuberculous Mycobacterial Lung Disease. <i>Clinics in Chest Medicine</i> , 2015, 36, 1-11.	2.1	115
75	Intravenous immunoglobulin replacement therapy to prevent pulmonary infection in a patient with Good's syndrome. <i>Journal of Microbiology, Immunology and Infection</i> , 2015, 48, 229-232.	3.1	17
76	Pathogenic Nontuberculous Mycobacteria Resist and Inactivate Cathelicidin: Implication of a Novel Role for Polar Mycobacterial Lipids. <i>PLoS ONE</i> , 2015, 10, e0126994.	2.5	17
77	Tobacco exposure and susceptibility to tuberculosis: Is there a smoking gun?. <i>Tuberculosis</i> , 2014, 94, 544-550.	1.9	34
78	A surface with a biomimetic micropattern reduces colonization of <i>Mycobacterium abscessus</i> . <i>FEMS Microbiology Letters</i> , 2014, 360, 17-22.	1.8	14
79	The association between body shape and nontuberculous mycobacterial lung disease. <i>Expert Review of Respiratory Medicine</i> , 2013, 7, 201-204.	2.5	11
80	Patients with non-tuberculous mycobacterial lung disease have elevated transforming growth factor-beta following ex vivo stimulation of blood with live <i>Mycobacterium intracellulare</i> . <i>Scandinavian Journal of Infectious Diseases</i> , 2013, 45, 711-714.	1.5	12
81	Pulse oximetry: Understanding its basic principles facilitates appreciation of its limitations. <i>Respiratory Medicine</i> , 2013, 107, 789-799.	2.9	449
82	Patients with Nontuberculous Mycobacterial Lung Disease Exhibit Unique Body and Immune Phenotypes. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 187, 197-205.	5.6	185
83	Underlying Host Risk Factors for Nontuberculous Mycobacterial Lung Disease. <i>Seminars in Respiratory and Critical Care Medicine</i> , 2013, 34, 110-123.	2.1	130
84	Octreotide. <i>Chest</i> , 2013, 144, 1937-1945.	0.8	13
85	<i>Mycobacterium abscessus</i> Induces a Limited Pattern of Neutrophil Activation That Promotes Pathogen Survival. <i>PLoS ONE</i> , 2013, 8, e57402.	2.5	52
86	Inhibition of Nuclear Factor-Kappa B Activation Decreases Survival of <i>Mycobacterium tuberculosis</i> in Human Macrophages. <i>PLoS ONE</i> , 2013, 8, e61925.	2.5	82
87	Alpha-1-antitrypsin inhibits nitric oxide production. <i>Journal of Leukocyte Biology</i> , 2012, 92, 1251-1260.	3.3	33
88	Wound Healing after Trauma May Predispose to Lung Cancer Metastasis. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2011, 44, 591-596.	2.9	61
89	<i>Mycobacterium tuberculosis</i> increases IP-10 and MIG protein despite inhibition of IP-10 and MIG transcription. <i>Tuberculosis</i> , 2011, 91, 26-35.	1.9	13
90	Increased Foxp3 expression in guinea pigs infected with W-Beijing strains of <i>M. tuberculosis</i> . <i>Tuberculosis</i> , 2011, 91, 378-385.	1.9	50

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91	IL-32 expression in the airway epithelial cells of patients with Mycobacterium avium complex lung disease. <i>International Immunology</i> , 2011, 23, 679-691.	4.0	39
92	Cigarette Smoke Increases Susceptibility to Tuberculosis—Evidence From In Vivo and In Vitro Models. <i>Journal of Infectious Diseases</i> , 2011, 203, 1240-1248.	4.0	94
93	An oxidative environment promotes growth of Mycobacterium abscessus. <i>Free Radical Biology and Medicine</i> , 2010, 49, 1666-1673.	2.9	57
94	Slender, Older Women Appear to Be More Susceptible to Nontuberculous Mycobacterial Lung Disease. <i>Gender Medicine</i> , 2010, 7, 5-18.	1.4	113
95	IL-32 Is a Host Protective Cytokine against <i>Mycobacterium tuberculosis</i> in Differentiated THP-1 Human Macrophages. <i>Journal of Immunology</i> , 2010, 184, 3830-3840.	0.8	111
96	Host Immune Response to Rapidly Growing Mycobacteria, an Emerging Cause of Chronic Lung Disease. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2010, 43, 387-393.	2.9	77
97	Multidrug-Resistant Tuberculosis (TB) Resistant to Fluoroquinolones and Streptomycin but Susceptible to Second-Line Injection Therapy Has a Better Prognosis than Extensively Drug-Resistant TB. <i>Clinical Infectious Diseases</i> , 2009, 48, e50-e52.	5.8	28
98	The Antioxidant Mimetic, MnTE-2-PyP, Reduces Intracellular Growth of <i>Mycobacterium abscessus</i> . <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2009, 41, 170-178.	2.9	31
99	Î±1-Antitrypsin is an endogenous inhibitor of proinflammatory cytokine production in whole blood. <i>Journal of Leukocyte Biology</i> , 2009, 85, 886-895.	3.3	161
100	Suppression of IFNÎ³+mycobacterial lipoarabinomannan-induced NO by IL-4 is due to decreased IRF-1 expression. <i>Tuberculosis</i> , 2009, 89, 294-303.	1.9	13
101	A 45-Year-Old Man With a History of Hepatitis C and Testicular Cancer Presents With Cavitory Lung Lesions and Palpable Purpura. <i>Chest</i> , 2009, 136, 1168-1174.	0.8	0
102	Animal model of <i>Mycobacterium abscessus</i> lung infection. <i>Journal of Leukocyte Biology</i> , 2008, 83, 1502-1511.	3.3	110
103	Significance of Bronchiectasis in Patients with Î±1-Antitrypsin Deficiency. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2008, 178, 208-208.	5.6	7
104	Multidrug-resistant and extensively drug-resistant tuberculosis: a review. <i>Current Opinion in Infectious Diseases</i> , 2008, 21, 587-595.	3.1	136
105	Alpha-1-antitrypsin (AAT) anomalies are associated with lung disease due to rapidly growing mycobacteria and AAT inhibits Mycobacterium abscessus infection of macrophages. <i>Scandinavian Journal of Infectious Diseases</i> , 2007, 39, 690-696.	1.5	105
106	Mycobacterium tuberculosis Induces Interleukin-32 Production through a Caspase-1/IL-18/Interferon-Î³-Dependent Mechanism. <i>PLoS Medicine</i> , 2006, 3, e277.	8.4	186
107	A Middle-Aged Woman with Recurrent Respiratory Infections. <i>Respiration</i> , 2005, 72, 427-430.	2.6	10
108	Pulmonary Mycobacterium tuberculosis infection in leptin-deficient ob/ob mice. <i>International Immunology</i> , 2005, 17, 1399-1408.	4.0	116

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109	Morphometric analysis of Th1 and Th2 cytokine expression in human pulmonary tuberculosis. <i>Tuberculosis</i> , 2004, 84, 375-385.	1.9	49
110	Treatment and Outcome Analysis of 205 Patients with Multidrug-resistant Tuberculosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2004, 169, 1103-1109.	5.6	307
111	Role of the NF- κ B Signaling Pathway and κ B cis -Regulatory Elements on the IRF-1 and iNOS Promoter Regions in Mycobacterial Lipoarabinomannan Induction of Nitric Oxide. <i>Infection and Immunity</i> , 2003, 71, 1442-1452.	2.2	81
112	What Is the Effect of Fingernail Polish on Pulse Oximetry?. <i>Chest</i> , 2003, 123, 2163-2164.	0.8	25
113	Analysis of Nitric Oxide Synthase and Nitrotyrosine Expression in Human Pulmonary Tuberculosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002, 166, 178-186.	5.6	136
114	Current medical treatment for tuberculosis. <i>BMJ: British Medical Journal</i> , 2002, 325, 1282-1286.	2.3	132
115	Calcium Deposition with or without Bone Formation in the Lung. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002, 165, 1654-1669.	5.6	324
116	Interleukin-18 Expression in Cystic Fibrosis Lungs. <i>Chest</i> , 2002, 121, 84S-85S.	0.8	7
117	IFN- γ + LPS induction of iNOS is modulated by ERK, JNK/SAPK, and p38 ^{mapk} in a mouse macrophage cell line. <i>American Journal of Physiology - Cell Physiology</i> , 2001, 280, C441-C450.	4.6	316
118	Induction of Inducible Nitric Oxide Synthase-NO \hat{a} by Lipoarabinomannan of <i>Mycobacterium tuberculosis</i> Is Mediated by MEK1-ERK, MKK7-JNK, and NF- κ B Signaling Pathways. <i>Infection and Immunity</i> , 2001, 69, 2001-2010.	2.2	150
119	Redox Paradox: Effect of N-Acetylcysteine and Serum on Oxidation Reduction \hat{a} Sensitive Mitogen-Activated Protein Kinase Signaling Pathways. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2001, 24, 627-632.	2.9	52
120	What is the Role of Nitric Oxide in Murine and Human Host Defense against Tuberculosis?. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2001, 25, 606-612.	2.9	198