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TB ALERT

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1. Acosta F, Fernandez PL, Goodridge A. Do B-1 cells play a role in response to Mycobacterium tuberculosis Beijing lineages? *Virulence*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34753390>.
2. Afriyie-Asante A, Dabla A, Dagenais A, Berton S, Smyth R, Sun J. Mycobacterium tuberculosis Exploits Focal Adhesion Kinase to Induce Necrotic Cell Death and Inhibit Reactive Oxygen Species Production. *Front Immunol*. 2021;12:742370. <https://www.ncbi.nlm.nih.gov/pubmed/34745115>.
3. Albutti A. An integrated computational framework to design a multi-epitopes vaccine against Mycobacterium tuberculosis. *Sci Rep*. 2021;11(1):21929. <https://www.ncbi.nlm.nih.gov/pubmed/34753983>.
4. Alemu A, Bitew ZW, Diriba G, Gumi B. Risk factors associated with drug-resistant tuberculosis in Ethiopia: A systematic review and meta-analysis. *Transbound Emerg Dis*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34741434>.
5. Almeida Santos J, Soares P, Leite A, Duarte R, Nunes C. Patient and healthcare delays in critical and non-critical pulmonary tuberculosis incidence areas in Portugal: are there differences? *Public Health*. 2021;201:41-7. <https://www.ncbi.nlm.nih.gov/pubmed/34742116>.
6. Amin Z, Mitiku H, Marami D, Shume T, Weldegebreal F. Magnitude of Multidrug Resistance and Associated Factors of Pulmonary Tuberculosis Among Adult Smear Positive Patients in Eastern Ethiopia. *Infect Drug Resist*. 2021;14:4493-500. <https://www.ncbi.nlm.nih.gov/pubmed/34737589>.
7. Anand E, Biswal N, Joseph NM. Effect of Neutralization of Gastric Aspirate on culture yield of mycobacterium tuberculosis in children with pulmonary tuberculosis. *Indian J Tuberc*. 2021;68(4):431-6. <https://www.ncbi.nlm.nih.gov/pubmed/34752309>.
8. Athimni S, Slouma M, Dhahri R, Gharsallah I, Metouia L, Louzir B. Tuberculosis infection under anti-TNF alpha treatment. *Curr Drug Saf*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34751125>.
9. Bansal N, Singh G, Dev P, Jain S, Sandhu GS. Acromioclavicular joint tuberculosis: A report of two cases. *Indian J Tuberc*. 2021;68(4):534-9. <https://www.ncbi.nlm.nih.gov/pubmed/34752326>.
10. Basky G. Equity in focus: Iqaluit water contaminated, tuberculosis on the rise, blood ban easing. *CMAJ*. 2021;193(44):E1706-E7. <https://www.ncbi.nlm.nih.gov/pubmed/34750182>.
11. Belete A, Tilahun S, Haile B, Demessie Y, Nigatu S, Getachew A, et al. Prevalence of bovine tuberculosis and distribution of tuberculous lesions in cattle slaughtered at Gondar, Northwest Ethiopia. *Infect Ecol Epidemiol*. 2021;11(1):1986919. <https://www.ncbi.nlm.nih.gov/pubmed/34745447>.
12. Betzler BK, Gunasekeran DV, Kempen J, Smith JR, McCluskey P, Nguyen QD, et al. The Historical Evolution of Ocular Tuberculosis: Past, Present, and Future. *Ocul Immunol Inflamm*. 2021:1-7. <https://www.ncbi.nlm.nih.gov/pubmed/34752203>.

13. Bouaggad A, Moussaoui M, Abassi O, Hassen S, Essodegui F. Massive Cerebral Air Embolism Causing Stroke Secondary to Pulmonary Tuberculosis. *Indian J Crit Care Med.* 2021;25(8):942-4. <https://www.ncbi.nlm.nih.gov/pubmed/34733039>.
14. Bunyasi EW, Middelkoop K, Koch A, Hoosen Z, Mulenga H, Luabeya AKK, et al. Molecular Detection of Airborne Mycobacterium tuberculosis in South African High Schools. *Am J Respir Crit Care Med.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34752730>.
15. Chan TH, Huang CS, Tu C, Jou R. Bovine tuberculosis in Taiwan, 2008-2019. *Transbound Emerg Dis.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34724711>.
16. Charpy F, Altwegg R, Debourdeau A. Disseminated tuberculosis in a patient treated with tofacitinib for ulcerative colitis. *J Crohns Colitis.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34752607>.
17. Chatterjee C, Majumdar S, Deshpande S, Pant D, Matheshwaran S. Real-time kinetic studies of Mycobacterium tuberculosis LexA-DNA interaction. *Biosci Rep.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34750612>.
18. Chen W, Liu Z, Zheng Y, Wei B, Shi J, Shao B, et al. Selenium donor restricts the intracellular growth of Mycobacterium tuberculosis through the induction of c-Jun-mediated both canonical autophagy and LC3-associated phagocytosis of alveolar macrophages. *Microb Pathog.* 2021;105269. <https://www.ncbi.nlm.nih.gov/pubmed/34742891>.
19. Chizimu JY, Solo ES, Bwalya P, Kapalamula TF, Akapelwa ML, Lungu P, et al. Genetic Diversity and Transmission of Multidrug Resistant Mycobacterium tuberculosis strains in Lusaka, Zambia. *Int J Infect Dis.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34718155>.
20. Chung S, Seon JY, Lee SH, Kim HY, Lee YW, Bae K, et al. The Relationship Between Socio-Demographic Factors and Tuberculosis Mortality in the Republic of Korea During 2008-2017. *Front Public Health.* 2021;9:691006. <https://www.ncbi.nlm.nih.gov/pubmed/34746074>.
21. Cloete R, Shahbaaz M, Grobbelaar M, Sampson SL, Christoffels A. In silico repurposing of a Novobiocin derivative for activity against latency associated Mycobacterium tuberculosis drug target nicotinate-nucleotide adenyl transferase (Rv2421c). *PLoS One.* 2021;16(11):e0259348. <https://www.ncbi.nlm.nih.gov/pubmed/34727137>.
22. Devlin S, Ross W, Widders R, McAvoy G, Browne K, Lawrence K, et al. Tuberculosis care designed with barramarrany (family): participatory action research that prioritised partnership, healthy housing and nutrition. *Health Promot J Austr.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34743380>.
23. Dheda K, Charalambous S, Karat AS, von Delft A, Lalloo UG, van Zyl Smit R, et al. A position statement and practical guide to the use of particulate filtering facepiece respirators (N95, FFP2, or equivalent) for South African health workers exposed to respiratory pathogens including Mycobacterium tuberculosis and SARS-CoV-2. *Afr J Thorac Crit Care Med.* 2021;27(4). <https://www.ncbi.nlm.nih.gov/pubmed/34734176>.

24. Dias RB, Rosa JC, Caldas GB, Borges A. Calvarial tuberculosis in a paediatric patient: a diagnosis not to forget. *BMJ Case Rep.* 2021;14(11). <https://www.ncbi.nlm.nih.gov/pubmed/34753721>.
25. Dos Santos PCP, da Silva Santos A, de Oliveira RD, da Silva BO, Soares TR, Martinez L, et al. Pooling Sputum Samples for Efficient Mass Tuberculosis Screening in Prisons. *Clin Infect Dis.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34718459>.
26. EbioMedicine. New approaches against the ancient pathogen Mycobacterium tuberculosis. *EBioMedicine.* 2021;72:103659. <https://www.ncbi.nlm.nih.gov/pubmed/34717837>.
27. Faryar KA, Braun R, Ancona RM, Ajayi E, Bryant W, Rehman S, et al. Emergency department screening for latent tuberculosis infection. *Am J Emerg Med.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34756647>.
28. Fekadu G, To KKW, You JHS. WITHDRAWN: Pretomanid for the treatment of Mycobacterium tuberculosis: Evidence on the development and clinical roles. *J Infect Public Health.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34742640>.
29. Florou Z, Gerogianni I, Gourgoulianis K, Petinaki E. New mutations in gidB gene associated with streptomycin resistance in Mycobacterium tuberculosis in Greece. *J Glob Antimicrob Resist.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34742910>.
30. Gao Q, Han C, Romani MD, Guo C, Tang M, Wang Y, et al. Posterior-only debridement, internal fixation, and interbody fusion using titanium mesh in the surgical treatment of thoracolumbar tuberculosis with spinal epidural abscess: a minimum 5-year follow-up. *BMC Musculoskelet Disord.* 2021;22(1):917. <https://www.ncbi.nlm.nih.gov/pubmed/34724946>.
31. Garcia-Zamalloa A, Vicente D, Arnay R, Arrospide A, Taboada J, Castilla-Rodriguez I, et al. Diagnostic accuracy of adenosine deaminase for pleural tuberculosis in a low prevalence setting: A machine learning approach within a 7-year prospective multi-center study. *PLoS One.* 2021;16(11):e0259203. <https://www.ncbi.nlm.nih.gov/pubmed/34735491>.
32. Gedfew M. Predictors of extrapulmonary tuberculosis among diabetic patients at Debre Markos compressive specialized hospital, Ethiopia, 2021: A retrospective cohort study. *J Clin Tuberc Other Mycobact Dis.* 2021;25:100280. <https://www.ncbi.nlm.nih.gov/pubmed/34746447>.
33. Gong W, Wu X. Differential Diagnosis of Latent Tuberculosis Infection and Active Tuberculosis: A Key to a Successful Tuberculosis Control Strategy. *Front Microbiol.* 2021;12:745592. <https://www.ncbi.nlm.nih.gov/pubmed/34745048>.
34. Guler R, Ozturk M, Sabeel S, Motaung B, Parihar SP, Thienemann F, et al. Targeting Molecular Inflammatory Pathways in Granuloma as Host-Directed Therapies for Tuberculosis. *Front Immunol.* 2021;12:733853. <https://www.ncbi.nlm.nih.gov/pubmed/34745105>.
35. Harding MC, Gibson SJ, Beaudoin JR. Cavitory Lung Lesion in a Tuberculosis-Negative Patient. *Fed Pract.* 2021;38(10):465-7. <https://www.ncbi.nlm.nih.gov/pubmed/34733067>.

36. Hinman AE, Jani C, Pringle SC, Zhang WR, Jain N, Martinot AJ, et al. Mycobacterium tuberculosis canonical virulence factors interfere with a late component of the TLR2 response. *Elife*. 2021;10. <https://www.ncbi.nlm.nih.gov/pubmed/34755600>.
37. Hlaka L, Ozturk M, Chia JE, Jones SS, Pillay S, Poswayo SKL, et al. IL-4i1 regulates immune protection during Mycobacterium tuberculosis infection. *J Infect Dis*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34739044>.
38. Huseynaliyeva V. [Improvement of Anti-Tuberculosis Work of First Aid Medical Organizations and Its Impact on Clinical and Epidemiological Indicators]. *Georgian Med News*. 2021(319):81-5. <https://www.ncbi.nlm.nih.gov/pubmed/34749328>.
39. Iga N, Fuchimoto Y, Koyanagi T, Mizuno D, Nishi H. A rare case of chest wall tuberculosis: Tuberculous scapulothoracic bursitis. *Respir Med Case Rep*. 2021;34:101537. <https://www.ncbi.nlm.nih.gov/pubmed/34745872>.
40. Jaimes JR. Ulcerative tuberculosis. *IDCases*. 2021;26:e01312. <https://www.ncbi.nlm.nih.gov/pubmed/34722157>.
41. Javed A, Abbas SR, Hashmi MU, Babar NUA, Hussain I. Graphene Oxide Based Electrochemical Genosensor for Label Free Detection of Mycobacterium tuberculosis from Raw Clinical Samples. *Int J Nanomedicine*. 2021;16:7339-52. <https://www.ncbi.nlm.nih.gov/pubmed/34754188>.
42. Jayapal V, Vidya Raj CK, Muthaiah M, Chadha VK, Brammachary U, Selvaraj S, et al. In-vitro anti-Mycobacterium tuberculosis effect of essential oil of Ocimum sanctum L. (Tulsi/Basil) leaves. *Indian J Tuberc*. 2021;68(4):470-3. <https://www.ncbi.nlm.nih.gov/pubmed/34752315>.
43. Kaimal S, Chacko A, Pinto B, Antony M. The master of masquerade: A case series of unusual presentations of cutaneous tuberculosis in the immunocompromised host. *Indian J Tuberc*. 2021;68(4):540-3. <https://www.ncbi.nlm.nih.gov/pubmed/34752327>.
44. Khatuni M, Ghalamkari M, Ameli F, Yekehtaz H. Disseminated tuberculosis with myelofibrosis presentation: a case report. *J Med Case Rep*. 2021;15(1):550. <https://www.ncbi.nlm.nih.gov/pubmed/34749829>.
45. Khurana P, Saigal K, Ghosh A. Drug resistance pattern and mutation pattern in pediatric tuberculosis: Study from north India. *Indian J Tuberc*. 2021;68(4):481-4. <https://www.ncbi.nlm.nih.gov/pubmed/34752317>.
46. Kim SH, Oh S, Nam E, Ko JH, Huh K, Cho SY, et al. Risk Groups of Developing Active Tuberculosis in Liver Transplant Recipients in a Tuberculosis Endemic Area: Risk Stratification by Chest Image and Interferon Gamma Release Assay. *Int J Infect Dis*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34718154>.
47. Kirby T. Global tuberculosis progress reversed by COVID-19 pandemic. *Lancet Respir Med*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34739860>.

48. Kolloli A, Kumar R, Singh P, Narang A, Kaplan G, Sigal A, et al. Aggregation state of Mycobacterium tuberculosis impacts host immunity and augments pulmonary disease pathology. *Commun Biol.* 2021;4(1):1256. <https://www.ncbi.nlm.nih.gov/pubmed/34732811>.
49. Kombila UD, Ibinga LD, Mounquengui D, Manomba Boulingui C, Boguikouma JB. [Epidemiological and evolutionary profile of tuberculosis under the influence of HIV]. *Rev Mal Respir.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34756503>.
50. Ku CC, MacPherson P, Khundi M, Nzawa Soko RH, Feasey HRA, Nliwasa M, et al. Durations of asymptomatic, symptomatic, and care-seeking phases of tuberculosis disease with a Bayesian analysis of prevalence survey and notification data. *BMC Med.* 2021;19(1):298. <https://www.ncbi.nlm.nih.gov/pubmed/34753468>.
51. Kumar N, Khan N, Cleveland D, Geiger JD. A common approach for fighting tuberculosis and leprosy: controlling endoplasmic reticulum stress in myeloid-derived suppressor cells. *Immunotherapy.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34743608>.
52. Lee S, Lee W, Kang SK. Tuberculosis infection status and risk factors among health workers: an updated systematic review. *Ann Occup Environ Med.* 2021;33:e17. <https://www.ncbi.nlm.nih.gov/pubmed/34754478>.
53. Lee Y, Seo H, Kim S, Rahim MDA, Yoon Y, Jung J, et al. Activity of Lactobacillus crispatus isolated from vaginal microbiota against Mycobacterium tuberculosis. *J Microbiol.* 2021;59(11):1019-30. <https://www.ncbi.nlm.nih.gov/pubmed/34754478>.
54. Lee YP, Jeong BH, Eun Y, Kang CI, Park S, Jung HA, et al. Extrapulmonary tuberculosis in patients with RET fusion-positive non-small cell lung cancer treated with pralsetinib: A Korean single-centre compassionate use experience. *Eur J Cancer.* 2021;159:167-73. <https://www.ncbi.nlm.nih.gov/pubmed/34753013>.
55. Li M, Chen T, Hua Z, Yan H, Wang D, Li Z, et al. Global, regional, and national prevalence of diabetes mellitus in patients with pulmonary tuberculosis: a systematic review and meta-analysis. *Diabetol Metab Syndr.* 2021;13(1):127. <https://www.ncbi.nlm.nih.gov/pubmed/34717728>.
56. Li Y, Deng Y, He J. Monocyte-related gene biomarkers for latent and active tuberculosis. *Bioengineered.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34751089>.
57. Liang L, Chen M, Tong Y, Tan W, Chen Z. Detection of Mycobacterium Tuberculosis IS6110 gene fragment by fluorescent biosensor based on FRET between two-dimensional metal-organic framework and quantum dots-labeled DNA probe. *Anal Chim Acta.* 2021;1186:339090. <https://www.ncbi.nlm.nih.gov/pubmed/34756272>.
58. Lien KA, Dinshaw K, Nichols RJ, Cassidy-Amstutz C, Knight M, Singh R, et al. A nanocompartment system contributes to defense against oxidative stress in Mycobacterium tuberculosis. *Elife.* 2021;10. <https://www.ncbi.nlm.nih.gov/pubmed/34751132>.
59. Liu X, Zhang L, Zhang F, Zeng X, Zhao Y, Wang Q, et al. Prevalence and Risk Factors of Active Tuberculosis in Patients with Rheumatic Diseases: A Multi-center, Cross-Sectional Study in China. *Emerg Microbes Infect.* 2021:1-36. <https://www.ncbi.nlm.nih.gov/pubmed/34753408>.

60. Lu YH, Shi WP, Hu Y, Xia F, Ning Z, Wu MY, et al. [A comparative study on the difference of gut microbiota and its biomarkers between patients with pulmonary tuberculosis and healthy controls]. *Zhonghua Jie He He Hu Xi Za Zhi*. 2021;44(11):939-46. <https://www.ncbi.nlm.nih.gov/pubmed/34758519>.
61. Maamatou W, Jabloun A, Daib A, Jarray L, Ben Abdallah R, Hellal Y, et al. Place of Laparoscopy in Peritoneal Tuberculosis. *J Laparoendosc Adv Surg Tech A*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34748433>.
62. Macedo LR, Maciel ELN, Struchiner CJ. Vulnerable populations and tuberculosis treatment outcomes in Brazil. *Cien Saude Colet*. 2021;26(10):4749-59. <https://www.ncbi.nlm.nih.gov/pubmed/34730660>.
63. Mahmood N, Bhatti S, Abbas SN, Shahid S, Nasir SB. The pncA gene mutations of Mycobacterium tuberculosis in multidrug-resistant tuberculosis. *Biotechnol Appl Biochem*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34731907>.
64. Makgopa S, Madiba S. Tuberculosis Knowledge and Delayed Health Care Seeking Among New Diagnosed Tuberculosis Patients in Primary Health Facilities in an Urban District, South Africa. *Health Serv Insights*. 2021;14:11786329211054035. <https://www.ncbi.nlm.nih.gov/pubmed/34720588>.
65. McMillen C. Indigenous Peoples, tuberculosis research and changing ideas about race in the 1930s. *CMAJ*. 2021;193(43):E1666-E8. <https://www.ncbi.nlm.nih.gov/pubmed/34725117>.
66. Medha, Priyanka, Sharma S, Sharma M. Design of a peptide-based vaccine from late stage specific immunogenic cross-reactive antigens of PE/PPE proteins of Mycobacterium tuberculosis. *Eur J Pharm Sci*. 2021;168:106051. <https://www.ncbi.nlm.nih.gov/pubmed/34744006>.
67. Miotto P, Goletti D, Petrone L. Making IGRA testing easier: First performance report of QIAreach QFT for tuberculosis infection diagnosis. *Pulmonology*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34756692>.
68. Modlin SJ, Elghraoui A, Gunasekaran D, Zlotnicki AM, Dillon NA, Dhillon N, et al. Structure-Aware Mycobacterium tuberculosis Functional Annotation Uncloaks Resistance, Metabolic, and Virulence Genes. *mSystems*. 2021:e0067321. <https://www.ncbi.nlm.nih.gov/pubmed/34726489>.
69. Mokrousov I, Vyazovaya A, Sinkov V, Gerasimova A, Ioannidis P, Jiao W, et al. Practical approach to detection and surveillance of emerging highly resistant Mycobacterium tuberculosis Beijing 1071-32-cluster. *Sci Rep*. 2021;11(1):21392. <https://www.ncbi.nlm.nih.gov/pubmed/34725411>.
70. Mouhoub E, Domenech P, Ndao M, Reed MB. The Diverse Applications of Recombinant BCG-Based Vaccines to Target Infectious Diseases Other Than Tuberculosis: An Overview. *Front Microbiol*. 2021;12:757858. <https://www.ncbi.nlm.nih.gov/pubmed/34745066>.

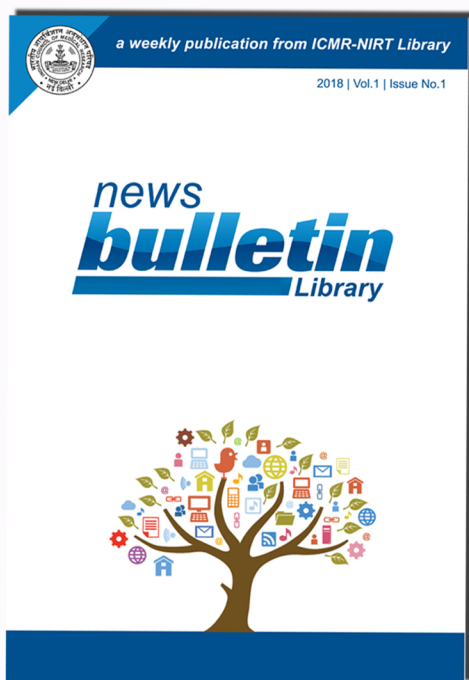
71. Nadershabbaz M, Bidaki R, Azimi S, Saghafi F. COVID-19-infected woman along with tuberculosis and psychogenic non-epileptic seizures: A case report. *Clin Case Rep*. 2021;9(10):e04964. <https://www.ncbi.nlm.nih.gov/pubmed/34721851>.
72. Ogah I, Milne F, Zevin B. Peritoneal tuberculosis. *CMAJ*. 2021;193(43):E1664. <https://www.ncbi.nlm.nih.gov/pubmed/34725115>.
73. Oh CE, Menzies D. Four months of rifampicin monotherapy for latent tuberculosis infection in children. *Clin Exp Pediatr*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34727494>.
74. Oliveira EP, Inacio CP, de Freitas JF, Valeriano CAT, Neves RP, Sobrinho PM, et al. Tuberculosis and neurocryptococcosis by *Cryptococcus neoformans* molecular type VNI in A non-HIV patient: A comorbidities case report. *J Mycol Med*. 2021;32(1):101213. <https://www.ncbi.nlm.nih.gov/pubmed/34758424>.
75. Onah CK, Azuogu BN, Ossai EN, Agu AP, Azuogu VC, Alobu I, et al. Addressing constraints to informal providers' involvement in tuberculosis control: a qualitative study of patent medicine dealers and tuberculosis programme managers. *Glob Health Res Policy*. 2021;6(1):43. <https://www.ncbi.nlm.nih.gov/pubmed/34743759>.
76. Orlandini RK, Rocha A, Silva GA, Watanabe E, Motta ACF, Silva-Lovato CH, et al. Increased diversity, fungal burden, and virulence of oral *Candida* spp. in patients undergoing anti-tuberculosis treatment. *Microb Pathog*. 2021;161(Pt A):105280. <https://www.ncbi.nlm.nih.gov/pubmed/34742893>.
77. Payros D, Alonso H, Malaga W, Volle A, Mazeris S, Dejean S, et al. Rv0180c contributes to *Mycobacterium tuberculosis* cell shape and to infectivity in mice and macrophages. *PLoS Pathog*. 2021;17(11):e1010020. <https://www.ncbi.nlm.nih.gov/pubmed/34724002>.
78. Peng X, Liao Q, Fang M, Zhu Y, Shi Y, Quan S, et al. Detection of pulmonary tuberculosis in children using the Xpert MTB/RIF Ultra assay on sputum: a multicenter study. *Eur J Clin Microbiol Infect Dis*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34734347>.
79. Perez-Recio S, Pallares N, Grijota-Camino MD, Sanchez-Montalva A, Barcia L, Campos-Gutierrez S, et al. Identification of Recent Tuberculosis Exposure Using QuantiFERON-TB Gold Plus, a Multicenter Study. *Microbiol Spectr*. 2021:e0097221. <https://www.ncbi.nlm.nih.gov/pubmed/34756079>.
80. Qi M, Li PJ, Wang Y, Liang ZA. Clinical features of atypical tuberculosis mimicking bacterial pneumonia. *Open Med (Wars)*. 2021;16(1):1608-15. <https://www.ncbi.nlm.nih.gov/pubmed/34746415>.
81. Ramakrishnan M, Ng WL, Durcan L, Fitzpatrick F, Corbett M. Latent tuberculosis infection amongst patients with rheumatic diseases in an Irish tertiary referral centre - A five-year review. *J Infect*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34718045>.

82. Realegeno S, Adeyiga O, Winston DJ, Beaird OE, Garner OB, Yang S. Utilization of whole genome sequencing for resolution of discrepant Mycobacterium tuberculosis drug susceptibility results: A case report. *IDCases*. 2021;26:e01308. <https://www.ncbi.nlm.nih.gov/pubmed/34745885>.
83. Remalante-Rayco PP, Dumlao PIE, Santiago AT. Great imitator: an unusual presentation of osteoarticular tuberculosis of the knee with gram-negative bacterial arthritis. *BMJ Case Rep*. 2021;14(11). <https://www.ncbi.nlm.nih.gov/pubmed/34728509>.
84. Rodrigues da Costa R, Silva MR, Augusto CJ, Goncalves Leite IC. Fast, simple and cheap: method modified from conventional cultivation for tuberculosis diagnosis allows seeding on Lowenstein-Jensen of any swab-embedded pulmonary samples decontaminated with sodium hydroxide. *Trans R Soc Trop Med Hyg*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34718818>.
85. Saboe A, Sakasmita S, Hartantri Y, Maryani E, Hadar AK, Sudjud RW, et al. A case of endocarditis and spondylodiscitis associated with Mycobacterium tuberculosis. *IDCases*. 2021;26:e01313. <https://www.ncbi.nlm.nih.gov/pubmed/34745887>.
86. Sarin R, Bhalla M, Kumar G, Singh A, Myneedu VP, Singhal R. Correlation of inhA mutations and ethionamide susceptibility: Experience from national reference center for tuberculosis. *Lung India*. 2021;38(6):520-3. <https://www.ncbi.nlm.nih.gov/pubmed/34747732>.
87. Shambhu R, Tank PAM, Mir T, Hegde V, Kibballi Madhukeshwar A. Are the patients with drug sensitive tuberculosis screened for ocular manifestations? A five year analysis from a medical college hospital of Karnataka, India. *Indian J Tuberc*. 2021;68(4):497-501. <https://www.ncbi.nlm.nih.gov/pubmed/34752320>.
88. Singh M, Tiwari P, Arora G, Agarwal S, Kidwai S, Singh R. Author Correction: Establishing Virulence Associated Polyphosphate Kinase 2 as a drug target for Mycobacterium tuberculosis. *Sci Rep*. 2021;11(1):21824. <https://www.ncbi.nlm.nih.gov/pubmed/34728648>.
89. Soetaert K, Ceysens PJ, Boarbi S, Bogaerts B, Delcourt T, Vanneste K, et al. Retrospective evaluation of routine whole genome sequencing of Mycobacterium tuberculosis at the Belgian National Reference Center, 2019. *Acta Clin Belg*. 2021:1-8. <https://www.ncbi.nlm.nih.gov/pubmed/34751641>.
90. Song Q, Bian Q, Liang T, Zhang Y, Zhang K. Identification of immune-related genes and susceptible population of pulmonary tuberculosis by constructing TF-miRNA-mRNA regulatory network. *Tuberculosis (Edinb)*. 2021;131:102139. <https://www.ncbi.nlm.nih.gov/pubmed/34740018>.
91. Srinivasan G, Chaturvedi D, Verma D, Pal H, Khatoon H, Yadav D, et al. Prevalence of depression and anxiety among drug resistant tuberculosis: A study in North India. *Indian J Tuberc*. 2021;68(4):457-63. <https://www.ncbi.nlm.nih.gov/pubmed/34752313>.
92. Srivastava S, Gumbo T, Thomas T. Repurposing Cefazolin-Avibactam for the Treatment of Drug Resistant Mycobacterium tuberculosis. *Front Pharmacol*. 2021;12:776969. <https://www.ncbi.nlm.nih.gov/pubmed/34744753>.

93. Sun C, Zhang X, Wang J, Chen Y, Meng C. Novel mesoporous silica nanocarriers containing gold; a rapid diagnostic tool for tuberculosis. *BMC Complement Med Ther.* 2021;21(1):277. <https://www.ncbi.nlm.nih.gov/pubmed/34740364>.
94. Swaminathan N, Perloff SR, Zuckerman JM. Prevention of Mycobacterium tuberculosis Transmission in Health Care Settings. *Infect Dis Clin North Am.* 2021;35(4):1013-25. <https://www.ncbi.nlm.nih.gov/pubmed/34752218>.
95. Swart Y, Uren C, van Helden PD, Hoal EG, Moller M. Local Ancestry Adjusted Allelic Association Analysis Robustly Captures Tuberculosis Susceptibility Loci. *Front Genet.* 2021;12:716558. <https://www.ncbi.nlm.nih.gov/pubmed/34721521>.
96. Tamura A, Ikeda M, Shimada M, Yamane A. Tuberculosis during lung cancer treatment-A case series. *J Infect Chemother.* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34756829>.
97. Tendolkar MS, Tyagi R, Handa A. Review of advances in diagnosis and treatment of pulmonary tuberculosis. *Indian J Tuberc.* 2021;68(4):510-5. <https://www.ncbi.nlm.nih.gov/pubmed/34752322>.
98. Theobald SJ, Grab J, Fritsch M, Suarez I, Eisfeld HS, Winter S, et al. Gasdermin D mediates host cell death but not interleukin-1beta secretion in Mycobacterium tuberculosis-infected macrophages. *Cell Death Discov.* 2021;7(1):327. <https://www.ncbi.nlm.nih.gov/pubmed/34718331>.
99. Thomson Benjamin KA, Stephen V, Bogdan M. Mycobacterium Tuberculosis Peritonitis in Peritoneal Dialysis Patients: A Scoping Review. *Nephrology (Carlton).* 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34743395>.
100. Thumamo Pokam BD, Yeboah-Manu D, Amiteye D, Asare P, Guemdjom PW, Yhiler NY, et al. Molecular epidemiology and multidrug resistance of Mycobacterium tuberculosis complex from pulmonary tuberculosis patients in the Eastern region of Ghana. *Heliyon.* 2021;7(10):e08152. <https://www.ncbi.nlm.nih.gov/pubmed/34746460>.
101. Toroitich AM, Gebeyehu W, Adan FI, Ogola C, Mohamed HM, Ombeka V, et al. Elucidation of potential challenges and prospects for regional tuberculosis interventions in East and Horn of Africa: a cross-sectional program assessment. *Pan Afr Med J.* 2021;39:279. <https://www.ncbi.nlm.nih.gov/pubmed/34754356>.
102. Tseng SY, Huang YS, Chang TE, Perng CL, Huang YH. Hepatotoxicity, efficacy and completion rate between 3 months of isoniazid plus rifapentine and 9 months of isoniazid in treating latent tuberculosis infection: A systematic review and meta-analysis. *J Chin Med Assoc.* 2021;84(11):993-1000. <https://www.ncbi.nlm.nih.gov/pubmed/34747900>.
103. Uppal A, Nsengiyumva NP, Signor C, Jean-Louis F, Rochette M, Snowball H, et al. Active screening for tuberculosis in high-incidence Inuit communities in Canada: a cost-effectiveness analysis. *CMAJ.* 2021;193(43):E1652-E9. <https://www.ncbi.nlm.nih.gov/pubmed/34725112>.

104. Utomo P, Kaldani F, Yanto R, Prijosedjati RA, Yamani AR. Kyphotic angle correction and neurological status evaluation after operation in spinal tuberculosis patients: Single center retrospective study. *Indian J Tuberc.* 2021;68(4):464-9. <https://www.ncbi.nlm.nih.gov/pubmed/34752314>.
105. Vigneschow A, Adegbite BR, Edoa JR, Alabi A, Adegnika AA, Grobusch MP, et al. Tuberculosis infection control measures in health care facilities in Moyen-Ogooue Province, Gabon. *BMC Health Serv Res.* 2021;21(1):1200. <https://www.ncbi.nlm.nih.gov/pubmed/34740361>.
106. Whitfield MG, Engelthaler DM, Allender C, Folkerts M, Heupink TH, Limberis J, et al. Comparative Performance of Genomic Methods for the Detection of Pyrazinamide Resistance and Heteroresistance in Mycobacterium tuberculosis. *J Clin Microbiol.* 2021;JCM0190721. <https://www.ncbi.nlm.nih.gov/pubmed/34757831>.
107. Willemse D, Moodley C, Mehra S, Kaushal D. Transcriptional Response of Mycobacterium tuberculosis to Cigarette Smoke Condensate. *Front Microbiol.* 2021;12:744800. <https://www.ncbi.nlm.nih.gov/pubmed/34721344>.
108. Wu SH, Chan HH, Hsiao HC, Jou R. Primary Bedaquiline Resistance Among Cases of Drug-Resistant Tuberculosis in Taiwan. *Front Microbiol.* 2021;12:754249. <https://www.ncbi.nlm.nih.gov/pubmed/34745058>.
109. Xie J, Mu Z, Yan B, Wang J, Zhou J, Bai L. An electrochemical aptasensor for Mycobacterium tuberculosis ESAT-6 antigen detection using bimetallic organic framework. *Mikrochim Acta.* 2021;188(11):404. <https://www.ncbi.nlm.nih.gov/pubmed/34731314>.
110. Yang J, Kwon Y, Kim J, Jang Y, Han J, Kim D, et al. Delays in the diagnosis and treatment of tuberculosis during the COVID-19 outbreak in the Republic of Korea in 2020. *Osong Public Health Res Perspect.* 2021;12(5):293-303. <https://www.ncbi.nlm.nih.gov/pubmed/34719221>.
111. Yee JL, Prongay K, Van Rompay KKA, Meesawat S, Kemthong T, Halley B, et al. Tuberculosis detection in nonhuman primates is enhanced by use of testing algorithms that include an interferon-gamma release assay. *Am J Vet Res.* 2022:1-8. <https://www.ncbi.nlm.nih.gov/pubmed/34757923>.
112. Zhang SX, Qiu L, Li C, Zhou W, Tian LM, Zhang HY, et al. Efficacy of integrating short-course chemotherapy with Chinese herbs to treat multi-drug resistant pulmonary tuberculosis in China: a study protocol. *Infect Dis Poverty.* 2021;10(1):131. <https://www.ncbi.nlm.nih.gov/pubmed/34742353>.
113. Zhang Y, Zhao R, Zhang Z, Liu Q, Zhang A, Ren Q, et al. Analysis of Factors Influencing Multidrug-Resistant Tuberculosis and Validation of Whole-Genome Sequencing in Children with Drug-Resistant Tuberculosis. *Infect Drug Resist.* 2021;14:4375-93. <https://www.ncbi.nlm.nih.gov/pubmed/34729015>.

114. Zheng X, Davies Forsman L, Bao Z, Xie Y, Ning Z, Schon T, et al. Drug exposure and susceptibility of second-line drugs correlate with treatment response in patients with multidrug-resistant tuberculosis: a multi-centre prospective cohort study in China. *Eur Respir J*. 2021. <https://www.ncbi.nlm.nih.gov/pubmed/34737224>.
115. Zhu RT, Shen LP, Chen LL, Jin G, Jiang HT. One-stage total hip arthroplasty for advanced hip tuberculosis combined with developmental dysplasia of the hip: A case report. *World J Clin Cases*. 2021;9(28):8587-94. <https://www.ncbi.nlm.nih.gov/pubmed/34754872>.



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