

2019 Publications

TB-CRE Chief Investigator TB-related publications:

Abdelghanya S, Parumasivam T, Roedinger B, Pang A, Tang P, Jahn K, **Britton WJ**, Chan H-K. Alginate modified-PLGA nanoparticles entrapping amikacin and moxifloxacin as a novel host-directed therapy for multidrug-resistant tuberculosis. *J Drug Delivery Sci Tech* 2019;52:642-651.

Akkerman O, Aleksa A, Alffenaar JW, Al-Marzouqi NH, Arias-Guillén M, Belilovski E ... **Denholm J** et al; members of the International Study Group on new anti-tuberculosis drugs and adverse events monitoring. Surveillance of adverse events in the treatment of drug-resistant tuberculosis: A global feasibility study. *Int J Infect Dis* 2019;83:72-76. doi: 10.1016/j.ijid.2019.03.036. [Epub ahead of print]

Alene KA, **Viney K**, **McBryde ES**, Gray DJ, Melku M, Clements ACA. Risk factors for multidrug-resistant tuberculosis in northwest Ethiopia: A case-control study. *Transbound Emerg Dis* 2019. doi: 10.1111/tbed.13188. [Epub ahead of print]

Alene KA, **Viney KA**, Gray DJ, **McBryde ES**, Wagnew M, Clements ACA. Mapping tuberculosis treatment outcomes in Ethiopia. *BMC Infect Dis* 2019;19:474

Alffenaar JC, **Sintchenko V**, **Marais BJ**. Acquired Drug Resistance: Recognizing the Potential of Repurposed Drugs. *Clin Infect Dis* 2019. pii: ciz334. doi: 10.1093/cid/ciz334.

Ali SM, Anjum N, Ishaq M, Naureen F, Noor A, Rashid A, Abbas SM, **Viney K**. Community knowledge about tuberculosis and perception about tuberculosis associated stigma in Pakistan. *Societies* 2019;9(1):9. <https://www.mdpi.com/2075-4698/9/1/9>.

Ashhurst AS, Flórido M, Lin LCW, Quan D, Armitage E, Stifter SA, Stambas J, **Britton WJ**. CXCR6-Deficiency Improves the Control of Pulmonary Mycobacterium tuberculosis and Influenza Infection Independent of T-Lymphocyte Recruitment to the Lungs. *Front Immunol* 2019; doi: 10.3389/fimmu.2019.00339

Bainomugisa A, Pandey S, Donnan E, Simpson G, Foster J, Lavu E, Hiasihri S, **McBryde ES**, Moke R, Vincent S, **Sintchenko V**, **Marais BJ**, Coin LJM, **Coulter C**. Cross-Border Movement of Highly Drug-Resistant Mycobacterium tuberculosis from Papua New Guinea to Australia through Torres Strait Protected Zone, 2010-2015. *Emerg Infect Dis* 2019;25(3):406-415. doi: 10.3201/eid2503.181003.

Birungi FM, **Graham SM**, Uwimana J, Musabimana A, van Wyk B. Adherence to isoniazid preventive therapy among child contacts in Rwanda: A mixed-methods study. *PLoS One* 2019;14(2):e0211934. doi: 10.1371/journal.pone.0211934. eCollection 2019.

Black HD, Xu W, Hortle E, Robertson SI, **Britton WJ**, Kaur A, New EJ, Witting PK, Chami B, Oehlers S. The cyclic nitroxide antioxidant 4-methoxy-TEMPO decreases mycobacterial burden in vivo through host and bacterial targets. *Free Radic Biol Med* 2019;135:157-166. doi: 10.1016/j.freeradbiomed.2019.03.010

Borisov SE, D'Ambrosio L, Centis R, Tiberi S, Dheda K, Alffenaar JW, Amale R, Belilowski E, Bruchfeld J, Canneto B, **Denholm** et al. Outcomes of patients with drug-resistant-tuberculosis treated with bedaquiline-containing regimens and undergoing adjunctive surgery. *J Infect* 2019;78:35-39. doi: 10.1016/j.jinf.2018.08.003. Epub 2018 Aug 7.

Byrne AL, **Marais BJ**, Mitnick CD, Garden FL, Lecca L, Contreras C, Yauri Y, Garcia F, **Marks GB**. Asthma and atopy prevalence are not reduced among former tuberculosis patients compared with controls in Lima, Peru. *BMC Pulm Med* 2019;19(1):40. doi: 10.1186/s12890-019-0804-z.

Chang RYC, Wallin M, Kutter E, Morales S, **Britton WJ**, Li J, Chan HK. Storage stability of inhalable phage powders containing lactose at ambient conditions. *Int J Pharmaceutics* 2019 (in press) doi.org/10.1016/j.ijpharm.2019.01.050

Cheung YM, Van K, Lan L, Barmanray R, Qian SY, Shi WY, Wong JLA, Hamblin PS, Colman PG, Topliss DJ, **Denholm JT**, Grossmann M. Hypothyroidism associated with therapy for multi-drug-resistant tuberculosis in Australia. *Intern Med J* 2019;49:364-372. doi: 10.1111/imj.14085.

Chin AT, Rylance J, Makumbirofa S, Meffert S, Vu T, Clayton J, **Mason P**, Woodruff P, Metcalfe J. Chronic lung disease in adult recurrent tuberculosis survivors in Zimbabwe: a cohort study. *Int J Tuberc Lung Dis* 2019;23:203-211. doi: 10.5588/ijtld.18.0313.

Clifford V, Tebruegge M, Zufferey C, Germano S, Forbes B, Cosentino L, Matchett E, **McBryde E**, Eisen D, Robins-Browne R, Street A, **Denholm J**, Curtis N. Cytokine biomarkers for the diagnosis of tuberculosis infection and disease in adults in a low prevalence setting. *Tuberculosis* 2019;114:91-102. doi: 10.1016/j.tube.2018.08.011. Epub 2018 Aug 25.

Counoupas C, **Triccas JA**. The generation of T-cell memory to protect against tuberculosis. *Immunol Cell Biol* 2019 May 25. doi: 10.1111/imcb.12275.

Counoupas C, **Triccas JA**, **Britton WJ**. Deciphering protective immunity against tuberculosis: implications for vaccine development. *Expert Rev Vaccines* 2019;4:1-12. doi: 10.1080/14760584.2019.1585246. [Epub ahead of print]

Detjen AK, Essajee S, Malgorzata G, **Marais BJ**. Tuberculosis and integrated child health - rediscovering the principles of Alma Ata. *Int J Infect Dis* 2019. pii: S1201-9712(19)30106-7. doi: 10.1016/j.ijid.2019.02.042. [Epub ahead of print]

Di Tanna GL, Khaki AR, Theron G, McCarthy K, Cox H, Mupfumi L, Trajman A, Zijenah LS, **Mason P** et al. Effect of Xpert MTB/RIF on clinical outcomes in routine care settings: individual patient data meta-analysis. *Lancet Glob Health* 2019;7:e191-e199. doi: 10.1016/S2214-109X(18)30458-3. Erratum in: *Lancet Glob Health* 2019;7:e419.

Diefenbach-Elstob T, Guernier V, Burgess G, Pelowa D, Dowi R, Gula B, Puri M, Pomat W, **McBryde E** et al. Molecular Evidence of Drug-Resistant Tuberculosis in the Balimo Region of Papua New Guinea. *Trop Med Infect Dis* 2019;4. pii: E33. doi: 10.3390/tropicalmed4010033.

Doan TN, **Fox GJ**, **Meehan MT**, Scott N, Ragonnet R, **Viney K**, **Trauer JM**, **McBryde ES**. Cost-effectiveness of 3 months of weekly rifapentine and isoniazid compared with other standard treatment regimens for latent tuberculosis infection: a decision analysis study. *J Antimicrob Chemother* 2019;74(1):218-227. doi: 10.1093/jac/dky403.

Fox GJ, Dodd PJ, **Marais BJ**. Household contact investigation to improve tuberculosis control. *Lancet Infect Dis* 2019;19(3):235-237. doi: 10.1016/S1473-3099(19)30061-1.

Fox GJ, Nguyen VN, Dinh NS, Nghiem LPH, Le TNA, **Nguyen TA**, Nguyen BH, Nguyen HD, Tran NB, Nguyen TL, Le TN, Nguyen VH, Phan TL, Nguyen KC, Ho J, Pham DC, **Britton WJ**, Bestrashniy JRBM, **Marks GB**. Post-treatment Mortality Among Patients With Tuberculosis: A Prospective Cohort Study of 10 964 Patients in Vietnam. *Clin Infect Dis* 2019;68(8):1359-1366. doi: 10.1093/cid/ciy665.

Graham SM, Sekadde MP. Case detection and diagnosis of tuberculosis in primary-care settings. *Paediatr Int Child Health* 2019 Apr 8:1-4. doi: 10.1080/20469047.2019.1597487. [Epub ahead of print]

Hanigan IC, Rolfe MI, Knibbs LD, Salimi F, Cowie CT, Heyworth J, **Marks GB** et al. All-cause mortality and long-term exposure to low level air pollution in the '45 and up study' cohort, Sydney, Australia, 2006-2015. *Environ Int* 2019;126:762-770. doi: 10.1016/j.envint.2019.02.044. Epub 2019 Mar 15.

Harries AD, Schwoebel V, Monedero-Recuero I, Aung TK, Chadha S, **Graham SM** et al. Challenges and opportunities to prevent tuberculosis in people living with HIV in low-income countries. *Int J Tuberc Lung Dis* 2019;23(2):241-251. doi: 10.5588/ijtld.18.0207.

Hortle E, Johnson KE, Johansen MD, Nguyen T, Shavit JA, **Britton WJ**, Tobin DM, Oehlers SH. Thrombocyte inhibition restores protective immunity to mycobacterial infection in zebrafish. *J Infect Dis* 2019 (accepted 5/2/2019)

Huang GKL, Pawape G, Taune M, Hiasihri S, Ustero P, O'Brien DP, **du Cros P, Graham S**, Wootton R, **Majumdar SS**. Telemedicine in Resource-Limited Settings to Optimize Care for Multidrug-Resistant Tuberculosis. *Front Pub Health* 2019. <https://doi.org/10.3389/fpubh.2019.00222>

Huynh J, **Marais BJ**. Multidrug-resistant tuberculosis infection and disease in children: a review of new and repurposed drugs. *Ther Adv Infect Dis* 2019;6:2049936119864737. doi: 10.1177/2049936119864737.

Huynh J, Vosu J, **Marais BJ**, Britton PN. Multidrug-resistant tuberculous meningitis in a returned traveller. *J Paediatr Child Health* 2019. doi: 10.1111/jpc.14387. [Epub ahead of print].

Jolliffe DA, Ganmaa D, Wejse C, Raqib R, Haq MA, Salahuddin N, Daley PK, **Ralph AP**, Ziegler TR, Martineau AR. Adjunctive vitamin D in tuberculosis treatment: meta-analysis of individual participant data. *Eur Respir J* 2019;53(3). pii: 1802003. doi: 10.1183/13993003.02003-2018.

Kendall EA, Sahu S, Pai M, **Fox GJ**, Varaine F, Cox H, Cegielski JP et al. What will it take to eliminate drug-resistant tuberculosis? *Int J Tuberc Lung Dis* 2019;23:535-546. doi: 10.5588/ijtld.18.0217.

Keshavjee S, Amanullah F, Cattamanchi A, Chaisson R, Dobos KM, **Fox GJ** et al. Moving toward Tuberculosis Elimination. Critical Issues for Research in Diagnostics and Therapeutics for Tuberculosis Infection. *Am J Respir Crit Care Med* 2019;199(5):564-571. doi: 10.1164/rccm.201806-1053PP.

Kyung HO, Rahevar K, Nishikiori N, **Viney K**, Choi H, Biermann O, Hee JK. Action towards Universal Health Coverage and social protection for tuberculosis care and prevention: Workshop for End TB Strategy Pillar 2 in the Western Pacific Region 2017. *Trop Med Infect Dis* 2019;4(1) 3; doi:10.3390/tropicalmed4010003. <https://www.mdpi.com/2414-6366/4/1/3/htm>

Lestari T, **Graham S**, van den Boogard C, Triasih R, Poespoprodjo JR, Ubra RR, Kenangalem E, Mahendradhata Y, Anstey NM, Bailie RS, **Ralph AP**. Bridging the

knowledge-practice gap in tuberculosis contact management in a high-burden setting: a mixed-methods protocol for a multicenter health system strengthening study. *Implement Sci* 2019;14:31. doi: 10.1186/s13012-019-0870-x.

Leung SSY, Carrigy NB, Vehring R, Finlay WH, Morales S, Carter EA, **Britton WJ**, Kutter E, Chan HK. Jet nebulization of phages with different tail morphologies – structural effects. *Int J Pharmaceutics* 2019;554:322-326. doi: 10.1016/j.ijpharm.2018.11.026. PMID 30445174.

Lung T, **Marks GB**, Nhung NV, Anh NT, Hoa NLP, Anh LTN, Hoa NB, **Britton WJ**, Bestrashniy J, **Jan S**, **Fox GJ**. Household contact investigation for the detection of tuberculosis in Vietnam: economic evaluation of a cluster-randomised trial. *Lancet Glob Health* 2019;7(3):e376-e384. doi: 10.1016/S2214-109X(18)30520-5.

Mai TQ, Martinez E, Menon R, Van Anh NT, Hien NT, Lan NH, Giang DC, Hang PT, Thuong PH, Van Huan H, Hoang NP, Nhung NV, Hoa NB, **Marais BJ**, **Sintchenko V**. Tuberculosis risk factors and Mycobacterium tuberculosis transmission among HIV-infected patients in Vietnam. *Tuberculosis* 2019;115:67-75. doi: 10.1016/j.tube.2019.02.001. Epub 2019 Feb 7

Main S, Lestari T, Triasih R, Chan G, Davidson L, **Majumdar S**, Santoso D, Phung S, Laukkala J, **Graham S**, **du Cros P**, **Ralph A**. Training for Tuberculosis Elimination in Indonesia: Achievements, Reflections, and Potential for Impact. *Trop Med Infect Dis* 2019; 4(3). pii: E107. doi: 10.3390/tropicalmed4030107.

Marais BJ, Buddle BM, de Klerk-Lorist LM, Nguipdop-Djomo P, Quinn F, Greenblatt C. BCG vaccination for bovine tuberculosis; conclusions from the Jerusalem One Health workshop. *Transbound Emerg Dis* 2019;66:1037-1043. doi: 10.1111/tbed.13089. Epub 2018 Dec 31.

Marais BJ, Williams S, Li A, Ofrin R, Merianos A, Negin J, Firman J, Davies R, Sorrell T. Improving emergency preparedness and response in the Asia-Pacific. *BMJ Glob Health* 2019 ;4(1):e001271. doi: 10.1136/bmjgh-2018-001271. eCollection 2019.

Marais BJ. Newer Drugs for Tuberculosis Prevention and Treatment in Children. *Indian J Pediatr* 2019. doi: 10.1007/s12098-018-02854-8. [Epub ahead of print]

McDonald VM, Fingleton J, Agusti A, Hiles SA, Clark VL, Holland AE, **Marks GB**, Bardin PP, Beasley R, Pavord ID, Wark PAB, Gibson PG; all the participants in the seminar. Treatable Traits: a new paradigm for 21st century management of chronic airway diseases. *Eur Respir J* 2019 Mar 7. pii: 1802058. doi: 10.1183/13993003.02058-2018. [Epub ahead of print] Review.

Meehan MT, Cocks DG, Müller J, **McBryde ES.** Global stability properties of a class of renewal epidemic models. *J Math Biol* 2019. doi: 10.1007/s00285-018-01324-1. [Epub ahead of print]

Melsew YA, Gambhir M, Cheng AC, **McBryde ES, Denholm JT**, Tay EL, Trauer JM. The role of super-spreading events in Mycobacterium tuberculosis transmission: evidence from contact tracing. *BMC Infect Dis* 2019 Mar 12;19(1):244. doi: 10.1186/s12879-019-3870-1.

Melsew YA, Cheng AC, **McBryde ES, Denholm JT**, Tay E, Ragonnet R, **Trauer JM.** Profiles of tuberculosis disease activation among contacts of patients with tuberculosis. *Eur Respir J* 2019; DOI: 10.1183/13993003.00353-2019

Nguyen PTK, Tran HT, Fitzgerald DA, Tran TS, **Graham SM, Marais BJ.** Characterisation of children hospitalised with pneumonia in central Vietnam: A prospective study. *Eur Respir J* 2019 Apr 7. pii: 1802256. doi: 10.1183/13993003.02256-2018. [Epub ahead of print]

Nguyen PT, Tran HT, Truong HT, Nguyen VT, **Graham SM, Marais BJ.** Paediatric use of antibiotics in children with community acquired pneumonia: A survey from Da Nang, Vietnam. *J Paediatr Child Health* 2019. doi: 10.1111/jpc.14413. [Epub ahead of print]

Oxlade O, Trajman A, Benedetti A, Adjobimey M, Cook VJ, Fisher D, **Fox GJ** et al. Enhancing the public health impact of latent tuberculosis infection diagnosis and treatment (ACT4): protocol for a cluster randomised trial. *BMJ Open* 2019; Mar 20;9(3):e025831. doi: 10.1136/bmjopen-2018-025831.

Pedrazzoli D, Borghi J, **Viney K**, Houben RMGJ, Lönnroth K. Measuring the economic burden for TB patients in the End TB Strategy and Universal Health Coverage frameworks. *Int J Tuberc Lung Dis* 2019;23:5-11. doi: 10.5588/ijtld.18.0318.

Phuong NTB, Anh NT, Van Son N, **Sintchenko V**, Ho J, **Fox GJ**, Nhung NV, **Marks GB**. Effect of two alternative methods of pooling sputum prior to testing for tuberculosis with genexpert MTB/RIF. *BMC Infect Dis* 2019;19:347. doi: 10.1186/s12879-019-3778-9.

Popovic I, Soares Magalhaes RJ, Ge E, **Marks GB**, Dong GH, Wei X, Knibbs LD. A systematic literature review and critical appraisal of epidemiological studies on outdoor air pollution and tuberculosis outcomes. *Environ Res* 2019;170:33-45. doi: 10.1016/j.envres.2018.12.011. Epub 2018 Dec 7. Review.

Rafiei N, Williams J, Mulley WR, **Trauer JM**, Jenkin GA, Rogers BA. Mycobacterium tuberculosis: Active disease and latent infection in a renal transplant cohort. *Nephrology* 2019;24:569-574. doi: 10.1111/nep.13386.

Ragonnet R, Underwood F, Doan T, Rafai E, **Trauer J**, **McBryde E**. Strategic Planning for Tuberculosis Control in the Republic of Fiji. *Trop Med Infect Dis*. 2019 Apr 24;4(2). pii: E71. doi: 10.3390/tropicalmed4020071.

Reid MJA, Arinaminpathy N, Bloom A, Bloom BR, Boehme C... **Graham SM** et al. Building a tuberculosis-free world: The Lancet Commission on tuberculosis. *Lancet*. 2019 Mar 30;393(10178):1331-1384. doi: 10.1016/S0140-6736(19)30024-8. Epub 2019 Mar 20

Sabbagh DK, Beasley R, **Marks GB**. The Immunological Mysteries of Tuberculosis. *J Allergy Clin Immunol Pract* 2019;7(2):649-650. doi: 10.1016/j.jaip.2018.10.011.

Sanders EJ, Kigoro A, Thiong'o A, Nduati E, **Graham SM**. Symptom Based Scoring. *Clin Infect Dis* 2019. doi: 10.1093/cid/ciz059. [Epub ahead of print] No abstract available.

Schön T, Matuschek E, Mohamed S, Utukuri M, Heysell S, Alffenaar JW, Shin S, Martinez E, **Sintchenko V** et al. Standards for MIC testing that apply to the majority of bacterial pathogens should also be enforced for Mycobacterium tuberculosis complex. Clin Microbiol Infect 2019. pii: S1198-743X(19)30041-2. doi: 10.1016/j.cmi.2019.01.019. [Epub ahead of print]

Snow K, Sawyer S, **Denholm J**, **Graham S**. Explaining variation in the burden of child and adolescent TB. Eur Resp J 2019;53:1901007

Taylor SL, Leong LEX, Mobegi FM, Choo JM, Wesselingh S, Yang IA, Upham JW, Reynolds PN, Hodge S, James AL, Jenkins C, Peters MJ, Baraket M, **Marks GB** et al. Long-Term Azithromycin Reduces Haemophilus influenzae and Increases Antibiotic Resistance in Severe Asthma. Am J Respir Crit Care Med 2019 Mar 15. doi: 10.1164/rccm.201809-17390C. [Epub ahead of print]

Tebruegge M, Ritz N, Donath S, Dutta B, Forbes B, Clifford V, Zufferey C, De Rose R, Robins-Browne RM, Hanekom W, **Graham SM** et al. Mycobacteria-Specific Mono- and Polyfunctional CD4+ T Cell Profiles in Children With Latent and Active Tuberculosis: A Prospective Proof-of-Concept Study. Front Immunol 2019;10:431. doi: 10.3389/fimmu.2019.00431.

Telnov O, Alvarez V, Graglia E, Molino L, **du Cros P**, Rich M. Bedaquiline overdose: A case report. Int J Infect Dis 2019. pii: S1201-9712(19)30164-X. doi: 10.1016/j.ijid.2019.03.035. [Epub ahead of print]

Trauer JM. TB, you're a long time cured. Eur Resp J 2019;53: pii1900104.

Trauer JM, Dodd PJ, Gomes MGM, Gomez GB, Houben RMGJ, **McBryde ES** et al. The Importance of Heterogeneity to the Epidemiology of Tuberculosis. Clin Infect Dis 2019;18;69(1):159-166. doi: 10.1093/cid/ciy938.

Utiera M, **Viney K**, Bissell K, Biribo S, Corbett K, Timeon E, Teriboriki B, Tibwe T. Ill-defined Causes of Death in the Republic of Kiribati, 2005 to 2014. Hawaii J Med Pub Health 2019;78:103-107.

Visser SK, Bye PTP, **Fox G**, ... **Britton WJ**, Morgan LC. Australian adults with bronchiectasis: The first report from the Australian Bronchiectasis Registry. *Respir Med* 2019;155:97-103. DOI: 10.1016/j.rmed.2019.07.016

Williamson DA, Kirk MD, **Sintchenko V**, Howden BP. The importance of public health genomics to ensure health security for Australia. *Med J Aust* 2019 Mar 19. doi: 10.5694/mja2.50063. [Epub ahead of print]

2018 Publications

TB-CRE Investigator TB-related publications:

Alene KA, Clements ACA, **McBryde ES**, Jaramillo E, Lönnroth K, Shaweno D, Gulliver A, **Viney K**. Mental health disorders, social stressors, and health-related quality of life in patients with multidrug-resistant tuberculosis: A systematic review and meta-analysis. *J Infect* 2018;77(5):357-367. doi: 10.1016/j.jinf.2018.07.007. Epub 2018 Jul 20. Review.

Alene KA, Clements ACA, **McBryde ES**, Jaramillo E, Lönnroth K, Shaweno D, **Viney K**. (2018) Sequelae of multidrug-resistant tuberculosis: protocol for a systematic review and meta-analysis. *BMJ Open*. 8(2):e019593.

Allix-Beguec C, Arandjelovic I, Bi L, Beckert P, Bonnet M, Bradley P, **Sintchenko V** et al for The CRyPTIC Consortium and the 100,000 Genomes Project. Prediction of susceptibility to first-line tuberculosis drugs by DNA sequencing. *New Eng J Med* 2018;379(15):1403-1415

Ashhurst AS, Parumasivam T, John JGY, Lin LC, Flórido M, West NP, Chan H-K, **Britton WJ**. (2018). PLGA particulate subunit tuberculosis vaccines promote humoral responses but not protective immunity against *Mycobacterium tuberculosis*. *PLoS ONE* 13(3):e0194620.

Aye S, **Majumdar SS**, Oo MM, Tripathy JP, Satyanarayana S, Kyaw NTT, Kyaw KWY, Oo NL, Thein S, Thu MK, Soe KT, Aung ST. Evaluation of a tuberculosis active case finding project in peri-urban areas, Myanmar: 2014-2016. *Int J Infect Dis*. 2018 May;70:93-100. doi: 10.1016/j.ijid.2018.02.012.

Bachmann NL, Rockett RJ, Timms VJ, **Sintchenko V**. Advances in Clinical Sample Preparation for Identification and Characterization of Bacterial Pathogens Using Metagenomics. *Front Public Health* 2018 Dec 12;6:363. doi: 10.3389/fpubh.2018.00363. eCollection 2018. Review.

Bainomugisa A, Duarte T, Lavu E, Pandey S, **Coulter C, Marais BJ**, Coin L. A complete high-quality MinION nanopore assembly of an extensively drug-resistant *Mycobacterium tuberculosis* Beijing lineage strain identifies novel variation in repetitive PE/PPE gene regions. *Microbial Genomics* 2018;4(7). doi: 10.1099/mgen.0.000188.

Bainomugisa A, Lavu E, Hiashiri S, **Majumdar S**, Honjepari A, Moke R, Dakulala P, Hill-Cawthorne GA, Pandey S, **Marais BJ, Coulter C**, Coin L. (2018) Multi-clonal evolution of multi-drug-resistant/extensively drug-resistant *Mycobacterium tuberculosis* in a high-prevalence setting of Papua New Guinea for over three decades. *Microb Genom*. doi: 10.1099/mgen.0.000147. [Epub ahead of print]

Baird T, Donnan E, **Coulter C**, Simpson G, Konstantinos A, Eather G. Multidrug-resistant tuberculosis in Queensland, Australia: an ongoing cross-border challenge. *Int J Tuberc Lung Dis*. 2018 Feb 1;22(2):206-211. doi: 10.5588/ijtld.17.0180.

Barry SE, Ellis M, Yang YR, Guan G, Wang X, **Britton WJ, Saunders BM**. (2018) Identification of a plasma microRNA profile in pulmonary tuberculosis patients that is modulated by anti-microbial therapy. *Journal of Infection* (accepted 19/3/2018).

Bastard M, Sanchez-Padilla E, **du Cros P**, Khamraev AK, Parpieva N, Tillyashaykov M et al. Outcomes of HIV-infected versus HIV-non-infected patients treated for drug-resistance tuberculosis: Multicenter cohort study. *PLoS One*. 2018 Mar 8;13(3):e0193491. doi: 10.1371/journal.pone.0193491. eCollection 2018.

Bastian I, **Coulter C**; National Tuberculosis Advisory Committee (NTAC). Position statement on interferon- γ release assays for the detection of latent tuberculosis infection. *Commun Dis Intell Q Rep*. 2017 Dec 1;41(4):E322-E336. Review.

Birungi FM, **Graham S**, Uwimana J, van Wyk B. (2018) Assessment of the isoniazid preventive therapy uptake and associated characteristics: a cross-sectional study. *Tuberc Res Treat*.

Byrne AL, **Marais BJ**, Mitnick CD, Garden FL, Lecca L, Contreras C, Yauri Y, Garcia F, **Marks GB**. (2018) Feasibility and yield of screening for non-communicable diseases among treated tuberculosis patients in Peru. *Int J Tuberc Lung Dis*. 22(1):86-92.

Byrne AL, **Fox GJ**, **Marais BJ**. (2018) Better than a pound of cure: preventing the development of multidrug-resistant tuberculosis. *Future Microbiol*. doi: 10.2217/fmb-2017-0236. [Epub ahead of print]

Chang RY, Wong J, Mathai A, Morales S, Kutter E, **Britton WJ**, Li J, Chan H-K (2018). Production of highly stable spray dried phage formulations for treatment of *Pseudomonas aeruginosa* lung infection. *European Journal of Pharmaceutics and Biopharmaceutics*, 121:1-13.

Chang RY, Chen K, Wang J, Wallin M, **Britton WJ**, Morales S, Kutter E, Li J, Chan H-K (2018) Anti-Pseudomonal activity of phage PEV20 in a dry powder formulation in a murine lung infection model—A proof-of-principle study. *Antimicrobial Agents and Chemotherapy* Jan 25;62 (2).

Cheah ALY, Cheng AC, Spelman D, Nation RL, Kong DCM, **McBryde ES**. Mathematical modelling of vancomycin-resistant enterococci transmission during passive surveillance and active surveillance with contact isolation highlights the need to identify and address the source of acquisition. *BMC Infect Dis* 2018;18(1):511. doi: 10.1186/s12879-018-3388-y.

Cheung YM, Van K, Lan L, Barmanray R, Qian SY, Shi WY, Wong J, Hamblin PS, Colman PG, Topliss DJ, **Denholm JT**, Grossmann M. Hypothyroidism associated with therapy for multi-drug resistant tuberculosis in Australia. *Intern Med J*. 2018 Aug 27. doi: 10.1111/imj.14085. [Epub ahead of print]

Clifford S, Mazaheri M, Salimi F, Ezz WN, Yeganeh B, Low-Choy S, Walker K, Mengersen K, **Marks GB**, Morawska L. (2018) Effects of exposure to ambient ultrafine particles on respiratory health and systemic inflammation in children. *Environ Int*. 114:167-180.

Counoupas C, Pinto, R, Gayathri N, **Britton WJ**, **Triccas JA**. (2018) Protective efficacy of recombinant BCG over-expressing protective, stage-specific antigens of *Mycobacterium tuberculosis*. *Vaccine*. 36(19):2619-2629. doi: 10.1016/j.vaccine.2018.03.066.

Dale KD, Trauer JM, Dodd PJ, Houben RMGJ, **Denholm JT**. Estimating the prevalence of latent tuberculosis in a low-incidence setting: Australia. *Eur Respir J*. 2018 Dec 20;52(6). pii: 1801218. doi: 10.1183/13993003.01218-2018.

Denholm JT, Silva DS, Burhan E, Chaisson RE. Tuberculosis Elimination in the Asia-Pacific Region and the WHO Ethics Guidance. *Trop Med Infect Dis*. 2018 Oct 31;3(4). pii: E115. doi: 10.3390/tropicalmed3040115.

Detjen AK, McKenna L, **Graham SM, Marais BJ**, Amanullah F; WHO/STOP TB Partnership Child and Adolescent TB Working Group. (2018) The upcoming UN general assembly resolution on tuberculosis must also benefit children. *Lancet Glob Health*. 6(5):e485-e486. doi: 10.1016/S2214-109X(18)30108-6.

Doan TN, Cao P, Emeto TI, McCaw JM, **McBryde ES**. Predicting the Outcomes of New Short-Course Regimens for Multidrug-Resistant Tuberculosis Using Intrahost and Pharmacokinetic-Pharmacodynamic Modeling. *Antimicrob Agents Chemother* 2018 Nov 26;62(12). pii: e01487-18. doi: 10.1128/AAC.01487-18. Print 2018 Dec.

Dobler CC, Bosnic-Anticevich S, Armour CL. Physicians' perspectives on communication and decision making in clinical encounters for treatment of latent tuberculosis infection. *ERJ Open Res*. 2018 Mar 23;4(1). pii: 00146-2017. doi: 10.1183/23120541.00146-2017

Dobler CC, Fox GJ, Douglas P, **Viney KA**, Ahmad Khan F, Temesgen Z, **Marais BJ**. (2018) Screening for tuberculosis in migrants and visitors from high incidence settings: present and future perspectives. *Eur Respir J*. pii: 1800591. doi: 10.1183/13993003.00591-2018. [Epub ahead of print]

Edwards J, Wilmott JS, Madore J, Gide TN, Quek C, Hewavisenti, R, Hersey P, Weninger W, **Britton WJ**, Saw RPM, Thompson JF, Menzies AM, Long GV, Scolyer RA, Palendira U. (2018). CD103+ tumor-resident CD8+ T cells are associated with improved survival in immunotherapy naive melanoma patients and expand significantly during anti-PD1 treatment. *Clinical Cancer Research* (accepted 23/2/2108).

Elliot C, **Marais B**, Williams P, Joshua P, Towle S, Hart G, Zwi K. (2018) Tuberculin skin test versus interferon-gamma release assay in refugee children: A retrospective cohort study. *J Paediatr Child Health*. doi: 10.1111/jpc.13865. [Epub ahead of print]

Flórido M, Muflihah H, Lin LCW, Xia Y, Sierrro F, Palendira M, Feng CG, Bertolino P, Stambas J, **Triccas JA, Britton WJ**. Pulmonary immunization with a recombinant Influenza A virus vaccine induces lung-resident CD4+ memory T cells that are associated with protection against tuberculosis. *Mucosal Immunol* 2018;11:1743–1752. PMID: 30115996

Fox GJ, Nguyen VN, Dinh NS, Nghiem LPH, Le TNA, Nguyen TA, Nguyen BH, Nguyen HD, Tran NB, Nguyen TL, Le TN, Nguyen VH, Pham TL, Nguyen KC Ho J, Pham DC, **Britton WJ**, Bestrashniy J, **Marks GB**. Post-treatment mortality among patients with tuberculosis: a prospective cohort study of 10,964 patients in Vietnam. *Clin Infect Dis* 2018. doi: 10.1093/cid/ciy665. [Epub ahead of print]. PMID 30202910.

Fox GJ, Nhung NV, Hoa NLP, Ngoc Anh LT, Thu Anh N, Hoa NB, Buu TN, Loi NT, Nhung LT, Hung NV, Lieu PT, Cuong NK, Ho J, Cuong P, **Britton WJ**, Bestrashniy J, **Marks GB**. Recurrence of Tuberculosis Among Patients Following Treatment Completion in Eight Provinces of Vietnam: A Nested Case-Control Study. *Int J Infect Dis* 2018;74:31-37. PMID 29944930.

Fox GJ, Nhung NV, Sy DN, Hoa NLP, Anh LTN, Anh NT, Hoa NB, Dung NH, Buu TN, Loi NT, Nhung LT, Hung NV, Lieu PT, Cuong NK, Cuong PD, Bestrashniy J, **Britton WJ**, **Marks GB**. (2018) Household-Contact Investigation for Detection of Tuberculosis in Vietnam. *N Engl J Med*. 378(3):221-229.

Francis JR, Manchikanti P, Blyth CC, **Denholm J**, Lowbridge C, **Coulter C**, Donnan E, Stapledon R, Krause VL, Waring J. (2018) Multidrug-resistant tuberculosis in Australia, 1998-2012. *Int J Tuberc Lung Dis*. 22(3):294-299.

Garden FL, Toelle BG, Mhrshahi S, Webb KL, Almqvist C, Tovey ER, Brew BK, Ayer JG, Skilton MR, Jones G, Ferreira MAR, Cowie C, Weber C, **Britton WJ**, Celermajer DS, Leeder SL, Peat JK, **Marks GB**. Cohort Profile: Childhood Asthma Prevention Study (CAPS). *Int J Epidemiol* 2018;1-12 doi: 10.1093/ije/dyy078. [May 25 Epub ahead of print] PMID:29800224

Gibson J, Coucher J, **Coulter C**, Eather G. Pleuropulmonary tuberculosis with spinal lesions due to metastatic malignancy differentiated definitively on imaging. *BMJ Case Rep*. 2018 Dec 22;11(1). pii: e226160. doi: 10.1136/bcr-2018-226160.

Guernier V, Diefenbach-Elstob T, Pelowa D, Pollard S, Burgess G, **McBryde ES**, Warner J. Molecular diagnosis of suspected tuberculosis from archived smear slides from the Balimo region, Papua New Guinea. *Int J Infect Dis* 2018;67:75-81.

Hansell AL, Bakolis I, Cowie CT, Belousova EG, Ng K, **Britton WJ**, Leeder S, Tovey E, Webb K, Toelle BG, **Marks GB**. Childhood fish oil supplementation modifies associations between road density and allergic sensitisation. *Environ Health* 2018 17:27. doi: 10.1186/s12940-018-0370-5.

Hawkins PME, Giltrap AM, Nagalingam G, **Britton WJ**, Payne RJ. Total Synthesis of Ecumicin. *Org Lett* 2018;20:1019-1022.

Horwood PF, **McBryde ES**, Peniyamina D, Ritchie SA. The Indo-Papuan conduit: a biosecurity challenge for Northern Australia. *Aust N Z J Public Health*. 2018;42:434-436. doi: 10.1111/1753-6405.12808. Epub 2018 Aug 8. No abstract available.

Hulme KM, Isaacs D2, **Marais BJ**, Robinson PD. Spontaneous Pneumothorax in a Young Child With Pulmonary Tuberculosis. *Pediatr Infect Dis J* 2018; doi: 10.1097/INF.0000000000002018. [Epub ahead of print]

Johansen MD, Kasparian JA, Hortle E, **Britton WJ**, Purdie AC, Oehlers SH. Mycobacterium marinum infection drives foam cell differentiation in zebrafish infection models. *Dev Comp Immunol* 2018;88:169-172. doi: 10.1016/j.dci.2018.07.022. [Epub ahead of print]

Johansen, MD, Hortle E, Kasparian JA, Romero A, Novoa B, Figueras A, **Britton WJ**, de Silva K, Purdie AC, Oehlers SH. Analysis of mycobacterial infection-induced changes to host lipid metabolism in a zebrafish infection model reveals a conserved role for LDLR in infection susceptibility. *Fish and Shellfish Immunol* 2018;83:238-242. DOI: 10.1016/j.fsi.2018.09.037.

Karmakar M, Globan M, Fyfe JAM, Stinear TP, Johnson PDR, Holmes NE, **Denholm JT**, Ascher DB. Analysis of a Novel pncA Mutation for Susceptibility to Pyrazinamide Therapy. *Am J Respir Crit Care Med* 2018;198:541-544. doi: 10.1164/rccm.201712-2572LE.

Kaushik N, Lowbridge C, Scandurra G, **Dobler CC**. Post-migration follow-up programme for migrants at increased risk of developing tuberculosis: a cohort study. *ERJ Open Res* 2018;4. pii: 00008-2018. doi: 10.1183/23120541.00008-2018.

Kinner SA, **Snow K**, Wirtz AL, Altice FL, Beyrer C, Dolan K. Age-Specific Global Prevalence of Hepatitis B, Hepatitis C, HIV, and Tuberculosis Among Incarcerated People: A Systematic Review. *J Adolesc Health* 2018;62:S18-S26. doi: 10.1016/j.jadohealth.2017.09.030. Review.

Kuhlin J, Smith C, Khaemraev A, Tigay Z, Parpieva N, Tillyashaykhov M, Achar J, Hajek J, Greig J, **du Cros P**, Moore D. Impact of pyrazinamide resistance on multidrug-resistant tuberculosis in Karakalpakstan, Uzbekistan. *Int J Tuberc Lung Dis* 2018;22:544-550. doi: 10.5588/ijtld.17.0483.

Leung SSY, Morales S, **Britton W**, Kutter E, Chan H-K. Microfluidic-assisted bacteriophage encapsulation into liposomes. *Int J Pharmaceut* 2018;545(1-2):176-182. (ePub 2/5/20018) PMID 29729404.

Leung SSY, Parumasivam T, Nguyen A, Gengenbach T, Carter EA, Carrigy NB, Wang H, Vehring R, Finlay WH, Morales S, **Britton WJ**, Kutter E, Chan HK. Effect of Storage Temperature on the Stability of Spray Dried Bacteriophage Powders. *Eur J Pharm Biopharm* 2018;pii: S0939-6411(17)31249-3.

Leung SSY, Morales S, **Britton W**, Kutter E, Chan HK. Microfluidic-assisted bacteriophage encapsulation into liposomes. *Int J Pharm* 2018;545(1-2):176-182. doi: 10.1016/j.ijpharm.2018.04.063.

Lin Y, Chang RYK, **Britton WJ**, Morales S, Kutter E, Chan HK. Synergy of nebulized phage PEV20 and ciprofloxacin combination against *Pseudomonas aeruginosa*. *Int J Pharmaceutics* 2018;551(1-2):158-165. doi.org/10.1016/j.ijpharm.2018.09.024. PMID: 30223075.

Marais BJ, Buddle BM, de Klerk-Lorist L, Nguipdop-Djomo P, Quinn F, Greenblatt C. Developments in BCG vaccination for bovine tuberculosis; conclusions from a One Health Workshop. *Transbound Emerg Dis* 2018;1-7. Epub ahead of print. doi: 10.1111/tbed.13089.

Marais BJ. Symptom-based screening of children with household tuberculosis contact. *Lancet Respir Med* 2018;6(4):235-237. doi: 10.1016/S2213-2600(17)30496-4.

Marks GB, Nhung NV, Nguyen TA, Hoa NB, Khoa TH, Son NV, Phuong NTB, Tin DM, Ho J, **Fox GJ**. Prevalence of latent tuberculous infection among adults in the general population of Ca Mau, Viet Nam. *Int J Tuberc Lung Dis* 2018;22:246-251.

Martinez E, Hennessy D, Jelfs P, Crichton T, Chen SC, **Sintchenko V**. Mutations associated with in vitro resistance to bedaquiline in *Mycobacterium tuberculosis* isolates in Australia. *Tuberculosis* 2018;111:31-34.

Meehan MT, Cocks DG, **Trauer JM**, **McBryde ES**. Coupled, multi-strain epidemic models of mutating pathogens. *Math Biosci* 2018;296:82-92.

Melsew YA, Doan TN, Gambhir M, Cheng AC, **McBryde E**, **Trauer JM**. Risk factors for infectiousness of patients with tuberculosis: a systematic review and meta-analysis. *Epidemiol Infect* 2018;146:345-353.

Muflihah H, Flórido M, Lin LCW, Xia Y, **Triccas JA**, Stambas J, **Britton WJ**. Sequential pulmonary immunization with heterologous recombinant Influenza A virus tuberculosis vaccines protects against murine *M. tuberculosis* infection. *Vaccine* 2018;36:2462-2470.

Murray H, Tay EL, Dinh S, Matthews H, Street A, **Denholm JT**. The Use of Fluoroquinolones for Tuberculosis in Victoria between 2011 and 2016. *Tuberc Res Treat* 2018;6860479. doi: 10.1155/2018/6860479. eCollection 2018.

Nguyen VAT, Nguyen HV, Dinh TV, Du HH, Do CN, **Marks GB**, Nguyen NV. Evaluation of Loopamp™ MTBC detection kit for diagnosis of pulmonary tuberculosis at a peripheral laboratory in a high burden setting. *Diagn Microbiol Infect Dis* 2018;90(3):190-195.

Nguyen P, Nguyen S, Nguyen T, **Marais B**. TB presenting as recurrent pneumonia in a HIV-infected infant in central Viet Nam. *Reports* 2018;1, 12; doi.org/10.3390/reports1020012.

Nguyen PTK, Thai TTB, Huynh J, **Marais BJ**. Infant with Xpert® confirmed tuberculous meningitis in central Vietnam. *J Clin Med* 2018;7,397; doi:10.3390/jcm7110397.

Nguyen PTK, Tran HT, Thai TTT, Foster K, Roberts CL, **Marais BJ**. (2018) Factors associated with breastfeeding intent among mothers of newborn babies in Da Nang, Viet Nam. *Int Breastfeed J*. 13:2. doi: 10.1186/s13006-017-0144-7.

Nguyen N, Wilson DW, Nagalingam G, **Triccas JA**, Schneider EK, Li J, Velkov T, Baell J. (2018) Broad activity of diphenyleneiodonium analogues against Mycobacterium tuberculosis, malaria parasites and bacterial pathogens. *Eur J Med Chem*. 148:507-518.

Pandey S, Lavu E, Congdon J, Moke R, Bainomugisa A, **Coulter C**. Characterization of pncA mutations in multi-drug and pyrazinamide resistant Mycobacterium tuberculosis isolates cultured from Queensland migrants and Papua New Guinea residents. *Tuberculosis (Edinb)*. 2018 Jul;111:109-113. doi: 10.1016/j.tube.2018.06.006. Epub 2018 Jun 8.

Parvaresh L, Bag SK, Cho J, Heron N, Assareh H, Norton S, Corbett S, **Marais BJ**. Monitoring Tuberculosis Contact Tracing Outcomes in Western Sydney, Australia. *BMJ Open Res* 2018; 5(1):e000341. doi: 10.1136/bmjresp-2018-000341

Parvaresh L, Crighton T, Martinez E, Bustamante A, Chen S, **Sintchenko V**. Recurrence of tuberculosis in a low-incidence setting: a retrospective cross-sectional study augmented by whole genome sequencing. *BMC Infect Dis* 2018;18(1):265. doi: 10.1186/s12879-018-3164-z.

Shaweno D, Karmakar M, Alene KA, Ragonnet R, Clements AC, **Trauer JM, Denholm JT, McBryde ES**. Methods used in the spatial analysis of tuberculosis epidemiology: a systematic review. *BMC Med* 2018;16(1):193. doi: 10.1186/s12916-018-1178-4.

Shaweno D, **Trauer JM, Denholm JT, McBryde ES**. The role of geospatial hotspots in the spatial spread of tuberculosis in rural Ethiopia: a mathematical model. *R Soc Open Sci* 2018;19;5:180887. doi: 10.1098/rsos.180887. eCollection 2018 Sep.

Snow KJ, Sismanidis C, **Denholm J**, Sawyer SM, **Graham SM**. The incidence of tuberculosis among

adolescents and young adults: a global estimate. *Eur Respir J* 2018;51(2). pii: 1702352. Antitubercular Bis-Substituted Cyclam Derivatives: Structure-Activity Relationships and in Vivo Studies. *J Med Chem.* 61(8):3595-3608. doi: 10.1021/acs.jmedchem.7b01569.

Snow KJ, Nelson LJ, Sismanidis C, Sawyer SM, **Graham SM**. Incidence and prevalence of bacteriologically confirmed pulmonary tuberculosis among adolescents and young adults: a systematic review. *Epidemiol Infect* 2018 [Epub ahead of print].

Snow K, Yadav R, **Denholm J**, Sawyer S, **Graham S**. Tuberculosis among children, adolescents and young adults in the Philippines: a surveillance report. *Western Pac Surveill Response J* 2018;9:16-20. doi: 10.5365/wpsar.2017.8.4.011. eCollection 2018 Oct-Dec.

Spain M, Wong JK, Nagalingam G, Batten JM, Hortle E, Oehlers SH, Jiang XF, Murage HE, Orford JT, Crisologo P, **Triccas JA**, Rutledge PJ, Todd MH. (2018)

Strong EJ, West NP. Use of Soluble Extracellular Regions of MmpL (SERoM) as Vaccines for Tuberculosis. *Scientific Reports* 2018;8, Article number 5604. doi:10.1038/s41598-018-23893-3

Sun HK, Pang A, Farr DC, Mosaiab T, **Britton WJ**, Anoopkumar-Dukie S, Grice ID, Kiefel MJ, West N, Grant GD, Houston TA. Thioamide Derivative of the Potent Antitubercular Decanesulfonylacetamide is Less Active Against *M. tuberculosis* but a More Potent Anti-staphylococcal Agent. *Aust J Chem* 2018;71(9): 716-719. (epub 19/9/2018).

Tramontana AR, Leslie DE, Nolan A, Globan M, Fyfe JM, **Denholm JT**, Guy SD. Pulmonary extensively drug-resistant tuberculosis in Melbourne: local control of a global health challenge. *Med J Aust.* 2018 Jun 4;208(10):428-429. No abstract available.

Trauer JM, Dodd PJ, Gomes MGM, Gomez GB, Houben RM, **McBryde ES**, Melsew YA, Menzies NA, Arinaminpathy N, Shrestha S, Dowdy DW. The Importance of Heterogeneity to the Epidemiology of Tuberculosis. *Clin Infect Dis* 2018. doi: 10.1093/cid/ciy938. [Epub ahead of print]

Trinh QM, Martinez E, Menon R, Nguyen TVA, Nguyen TH, **Marais BJ**, **Sintchenko V**. Mycobacterium tuberculosis drug resistance and transmission among HIV-infected patients in Ho Chi Minh City, Vietnam. *Am J Trop Med Hyg* 2018;99: 1397-1406.

Zhang G, deWeerd NA, Stifter SA, Liu L, Zhou B, Wang W, Zhou Y, Ying B, Hu X, Matthews AY, Ellis M, **Triccas JA**, Hertzog PJ, **Britton WJ**, Chen X, Feng CG. A proline deletion in IFNAR1 impairs IFN-signaling and underlies increased resistance to tuberculosis in humans. *Nat Commun* 2018;9(1):85. PMID: 29311663.

2017 Publications

TB-CRE Chief Investigator TB-related publications:

Al Yazidi, L.S., **Marais, B.J.**, Briony, Hazelton, B., Outhred, A., Kesson, A. (2017). Nontuberculous mycobacteria in children – a focus on bloodstream infections. *Ped Infect Dis J*: 36: 374-8

Alene, K.A., **Viney, K., McBryde, E.**, Clements, A. (2017). Spatial patterns of multidrug resistant tuberculosis and its relationship to socio-economic, demographic and household factors in northwest Ethiopia. *PLoS One*. 2017; 12(2): e0171800.

Alene, K.A., **Viney, K., McBryde, E.S.**, Tsegaye, A.T. (2017). Clements AC. Treatment outcomes in patients with multidrug-resistant tuberculosis in north-west Ethiopia. *Tropical Medicine & International Health*.

Abimbola S, Topp S, Palagyi A, **Marais B**, Negin J. (2017) Global health security: where is the data to inform health system strengthening? *BMJ Glob Health*.2(3):e000481.

Barry, S.E., Ellis, M. Yang, Y.R., Guan, G., Wang, X., **Britton, W.J., Saunders, B.M.** (2017). Identification of a plasma microRNA profile in pulmonary tuberculosis patients that is modulated by anti-microbial therapy. (submitted).

Bates, M., Hassan, R., **Marais, B.**, Ntoumi, F., Yeboah-Manu, D. (2017). Challenging dogma and stagnation in TB research. *Int. J. Mycobacteriol*: 5: 373

Borisov, S., Dhedai, K., Enwerem, M... **Denholm, J.T.**, ...Migliori, G.B. (2017). Effectiveness and safety of bedaquiline-containing regimens in the treatment of multidrug and extensively drug-resistant tuberculosis: a multicentre study. *Euro Resp J*. 49(5). pii: 1700387.

Byrne AL, **Marais BJ**, Mitnick CD, Garden FL, Lecca L, Contreras C, Yauri Y, Garcia F, **Marks**

GB. (2017) Chronic airflow obstruction after successful treatment of multidrug-resistant tuberculosis. *ERJ Open Res.* 3(3).

Byrne AL, **Fox G, Marais BJ.** (2017) Better than a pound of cure: steps to prevent multidrug resistant tuberculosis. *Fut Microbiol.* 13:5.

Carrigy NB, Chang RY, Leung SSY, Harrison M, Petrova Z, Pope WH, Hatfull GF, **Britton WJ,** Chan HK, Sauvageau D, Finlay WH, Vehring R. (2017) Anti-Tuberculosis Bacteriophage D29 Delivery with a Vibrating Mesh Nebulizer, Jet Nebulizer, and Soft Mist Inhaler. *Pharm Res.* 34(10):2084-2096.

Clifford V, Tebruegge M, Zufferey C, Germano S, Forbes B, Cosentino L, **McBryde E,** Eisen D, Robins-Browne R, Street A, Denholm J, Curtis N. (2017) Mycobacteria-specific cytokine responses as correlates of treatment response in active and latent tuberculosis. *J Infect.* 75(2):132-145.

Coffman J, Chanda-Kapata P, **Marais BJ,** Kapata N, Zumla A, Negin J. (2017) Tuberculosis among older adults in Zambia: burden and characteristics among a neglected group. *BMC Public Health.*17(1):804.

Counoupas C, Pinto R, Nagalingam G, **Britton WJ,** Petrovsky N, **Triccas JA.** (2017) Delta inulin-based adjuvants promote the generation of polyfunctional CD4+ T cell responses and protect mice against *Mycobacterium tuberculosis* infection. *Sci Rep.* 7(1):8582.

Counoupas, C., Pinto, R., Nagalingam, G., **Britton ,W.J.,** Petrovsky, N., **Triccas,**J.A. Coussens, A.K., **Mason, P.H.,** Oni, T. (2017) Socio-political prescriptions for LTBI are required to prevent re-activation of TB, *Int J Infect Dis.* 58:115-116

Counoupas C, Pinto R, Nagalingam G, **Britton WJ,** Petrovsky N, **Triccas JA.** (2017) Delta inulin-based adjuvants promote the generation of polyfunctional CD4+ T cell responses and protection against *Mycobacterium tuberculosis* infection. *Sci Rep.*7(1):8582.

Dale, K.D., Globan, M., Tay, E., Trevan, P.G., **Denholm, J.T.**(2017). Recurrence of tuberculosis in a low-incidence setting without Directly Observed Treatment (DOT): Victoria, 2002-2014. *Int J TB Lung Dis,* January 2017.

Dale KD, Tay EL, **Trauer JM,** Trevan PG, **Denholm JT.**(2017) Comparing tuberculosis management under public and private healthcare providers: Victoria, Australia, 2002-2015. *BMC Infect Dis.* 17(1):324.

Dale K, Tay E, **Trauer JM**, Trevan P, **Denholm J.** (2017) Gender differences in tuberculosis diagnosis, treatment and outcomes in Victoria, Australia, 2002-2015. *Int J Tuberc Lung Dis.* 21(12):1264-1271.

Degeling, C., **Denholm, J.T., Mason, P.,** Kerridge, I.H., Dawson, A. (2017). Eliminating latent tuberculosis in low burden settings: are the principal beneficiaries to be disadvantaged groups or the broader population? *J Med Ethics.* 43(9):632-636.

Denholm JT. (2017) Strategic partnerships towards tuberculosis elimination. *Int J Tuberc Lung Dis.* 21(10):1072.

Denholm JT, Bissell K, **Viney K,** Durand AM, Cash HL, Roseveare C, Merilles OE Jr, Harries AD, Biribo S. (2017) Research ethics committees in the Pacific Islands: gaps and opportunities for health sector strengthening. *Public Health Action.* 7(1):6-9.

Denholm, J.T., McBryde, E.S., Eisen, D.E., Street, A.C., Matchett, E., Chen, C., Shultz, T., Biggs, B.A., Leder, K. SIRCLE – a randomised controlled cost comparison of self-administered. Short-course Isoniazid and Rifapentine for Cost-effective Latent tuberculosis Eradication. *Intern Med J.* 47(12):1433-1436

Feng, C.G., JCI Zhang, G., deWeerd, N.A, Stifter, S.A., Liu, L., Zhou, B., Wang, W., Zhou, Y., Matthews, A., Ellis, M., **Triccas, J.A.,** Hertzog, P.J., **Britton, W.J.,** Chen, X., Feng, C.G. (2017) Muted type-I interferon signaling underlies enhanced resistance to human tuberculosis, *PLOS Pathogens* (under revision)

Fox, G.J., Dobler, C., Marais, B.J., Denholm, J. (2017). Preventive therapy for latent tuberculosis infection – the promise and challenges. *Int J Infect Dis;* 56: 68-76

Fox, G.J., Schaaf, H.S., Mandalakas, A., Chiappini, E., Zumla, A., **Marais, B.J.** (2017). Preventing the spread of multidrug-resistant tuberculosis and protecting contacts of infectious cases: a systematic review. *Clin Microbiol Infect;* 23:147-153

Fox GJ, Anh NT, Nhung NV, Loi NT, Hoa NB, Ngoc Anh LT, Cuong NK, Buu TN, **Marks GB,** Menzies D. (2017) Latent tuberculosis infection in household contacts of multidrug-resistant and newly diagnosed tuberculosis. *Int J Tuberc Lung Dis.* 21(3):297-302.

Graham SM. (2017) The management of infection with Mycobacterium tuberculosis in young children post-2015: an opportunity to close the policy-practice gap. *Expert Rev Respir Med.* 11(1):41-49.

Hansell, A.L., Bakolis, I., Cowie, C.T., Belousova, E.G., Ng, K., Britton, W.J., Leeder, S., Tovey, E., Webb, K., Toelle, B.G., Marks, G.B. (2017). Childhood fish oil supplementation modifies associations between road density and allergic sensitisation. *Clin Exp Allergy*

Harausz, E., Garcia-Prats, A., Seddon, J., Schaaf, H.S., Achar, J., Becerra, M., Bernheimer, J., Cruz, A., D'Ambrosio, L., Detjen, A., Graham, S., Marais, B.J., Jonckheere, S., Lessem, E., Migliori, G.B, McKenna, L., Skrahina, A., Duran, L.T., Wilson, P., Furin, J. (2017). New/Repurposed Drugs for Pediatric Multidrug-Resistant Tuberculosis: Practice-Based Recommendations. *Am J Resp Crit Care Med*.

Harausz, E.P., Garcia-Prats, A.J., Seddon, J.A., Schaaf, H.S., Hesselning, A.C., Achar, J., Bernheimer, J., Cruz, A., D'Ambrosio, L., Detjen, A., Graham, S.M., Hughes, J., Jonckheere, S., Marais, B.J., Battista, Migliori, G., McKenna, L., Skrahina, A., Tadolini, M., Wilson, P., Furin, J. (2017). Sentinel Project on Pediatric Drug-Resistant Tuberculosis. *Am J Respir Crit Care Med*.

Hare, N.J., Lee, L.Y., Loke, I., Britton, W.J., Saunders, B.M., Thaysen-Andersen, M. (2017) Mycobacterium tuberculosis Infection Manipulates the Glycosylation Machinery and the N-Glycoproteome of Human Macrophages and their Microparticles. *J Proteome Research* 16(1):247-263.

Hill-Cawthorne G, Marais BJ. Zika virus – brief overview. Springer Nature 2016. March 29. springernature.com/gp/group/zika-... @SpringerNature

Hill-Cawthorne GA, Capon AG, Sorrell TC, Marais BJ. (2017) A planetary health approach to emerging infections in Australia. *Lancet*. 389(10076):1293.

Ho J, Jelfs P, Nguyen P, Sintchenko V, Fox G, Marks GB. Pooling sputum samples to improve the feasibility of Xpert MTB/RIF in systematic screening for tuberculosis. *Int J Tuberc Lung Dis*. 21(5):503-508.

Jenkins HE, Yuen CM, Rodriguez CA, Nathavitharana RR, McLaughlin MM, Donald PR, Khatami A, Outhred AC, Maldigri PI, Isaacs D, Marais BJ, Kesson AM. Nosocomial transmission from a child with sputum smear-negative pulmonary tuberculosis. *Ped Infect Dis J* 2017; E-pub ahead of print

Jenkins HE, Yuen CM, Rodriguez CA, Nathavitharana RR, McLaughlin MM, Donald PR, Marais BJ, Becerra MC (2017) Mortality among children diagnosed with tuberculosis: Systematic review and meta-analysis. *Lancet Infect Dis*. 17: 285-95

Kastien-Hilka T, Rosenkranz B, Sinanovic E, Bennett B, Schwenkglens M. (2017) Health-related quality of life in South African patients with pulmonary tuberculosis. *PLoS One*. 12(4):e0174605.

Kastien-Hilka T, Rosenkranz B, Schwenkglens M, Bennett BM, Sinanovic E. (2017) Association between Health-Related Quality of Life and Medication Adherence in Pulmonary Tuberculosis in South Africa. *Front Pharmacol*.8:919.

Kaufmann SHE, Dockrell HM, Drager N, Ho M, McShane H, Neyrolles O, Ottenhoff T, Patel B, Roordink D, Britton W, Triccas J, Counoupas C, et al (2017). TBVAC2020: Advancing tuberculosis vaccines from discovery to clinical development. *Frontiers in Immunology*. Oct 4, 8:1203.

Khatami A, Marais B. (2017) The Epidemiology of Tuberculosis in Children. *J Ped Infect Dis*. 01:1-88

LaCourse SM, Deya RW, Graham SM, Masese LN, Jaoko W, Mandaliya KN, Overbaugh J, McClelland RS. (2017) Evaluation of the Isoniazid Preventive Therapy Care Cascade Among HIV-Positive Female Sex Workers in Mombasa, Kenya. *J Acquir Immune Defic Syndr*. 76(1):74-81.

Leung SS, Parumasivam T, Gao FG, Carrigy NB, Vehring R, Finlay WH, Morales S, Britton WJ, Kutter E, Chan HK. (2017) Effects of storage conditions on the stability of spray dried, inhalable bacteriophage powders. *Int J Pharmaceutics* 521(1-2):141-149(ePub, Feb 3, 2017).

Lipworth, W., Kerridge, I., Ioannidis, J.P.A., Mason, P.H. (2017) Ethics and Epistemology in Big Data Research. *J Bioeth Inq*. 14(4):489-500.

MacLennan C, Msefuka C, Gondwe EN, Gilchrist JJ, Pensulo P, Mandala WL, Mwimaniwa G, Banda M, Kenny J, Wilson LK, Phiri A, MacLennan JM, Molyneux EM, Molyneux ME, Graham SM. (2017) Presentation of life-threatening invasive nontyphoidal Salmonella disease in Malawian children: a prospective observational study. *PLoS Negl Trop Dis*. 11:e0006027

Mai TQ, Van Anh NT, Hien NT, Lan NH, Giang DC, Hang PTT, Lan NTN, Marais BJ, Sintchenko V. (2017) Drug resistance and Mycobacterium tuberculosis strain diversity in TB/HIV co-infected patients in Ho Chi Minh city, Vietnam. *J Glob Antimicrob Resist*. 10:154-160.

Marais BJ, Becerra MC Mortality among children diagnosed with tuberculosis: Systematic review and meta-analysis. *Lancet Infect Dis* 2017; 17: 285-95

Marais BJ, Heemskerk AD, Marais S, van Crevel R, Rohlwink U, Caws M, Meintjes G, Misra UK, Nguyen THM, Ruslami R, Seddon JA, Solomons R, van Toorn R, Figaji A, McIlleron H, Aarnoutse R, Schoeman J, Wilkinson RJ, Thwaites G. (2017) Standardized Methods for Enhanced Quality and Comparability of Tuberculous Meningitis studies. *Clin Infect Dis*. 64: 501-9

Marais, B.J., Sintchenko, V.. Epidemic spread of multidrug-resistant tuberculosis in China. *Lancet Infect Dis* 2017; 17: 238-9

Marais, B.J. (2017). Childhood tuberculosis – out of the shadows. *BMC Pneumonia* 2016; 8: 22-3

Marais, B.J. Improving access to tuberculosis preventive therapy and treatment for children. *Int J Infect Dis* 2017. 56: 122-5

Marais, B.J. The global tuberculosis situation and the inexorable rise of drug-resistant disease. *Adv Drug Delivery Rev* 2016; 102: 3-9

Marais BJ, Heemskerk AD, Marais SS, van Crevel R, Rohlwink U, Caws M, Meintjes G, Misra UK, Mai NTH, Ruslami R, Seddon JA, Solomons R, van Toorn R, Figaji A, McIlleron H, Aarnoutse R, Schoeman JF, Wilkinson RJ, Thwaites GE. (2017) Standardized Methods for Enhanced Quality and Comparability of Tuberculous Meningitis Studies: Tuberculous Meningitis International Research Consortium. *Clin Infect Dis.* 15;64(4):501-509

Marais BJ, Graham SM. (2017) Symptom-based screening of child TB contacts: defining 'symptomatic'. *Int J Tuberc Lung Dis.* 21(7):832-833.

Marais BJ, Walker TM, Cirillo DM, Raviglione M, Abubakar I, van der Werf MJ, Boehme C, Niemann S, Castro KG, Zumla A, Sintchenko V, Crook DW. (2017) Aiming for zero tuberculosis transmission in low-burden countries. *Lancet Respir Med.* 5(11):846-848.

Mason, P.H., Kerridge, I., Lipworth, W. (2017). The Global in Global Health is not a Given, *American Journal of Tropical Medicine and Health*, 96(4), 767–769. doi:10.4269/ajtmh.16-0791.

Mason, P.H., Roy, A., Singh, P. (In Press). Reciprocity-building and the importance of interdisciplinary collaboration in tuberculosis research. *Journal of Biosocial Science*

Mason, P.H., Snow, K., Asugeni, R., Massey, P.D., Viney, K. (2017). Tuberculosis and Gender in the Asia-Pacific Region. *Australian & New Zealand Journal of Public Health*.

McBryde E, Meehan MT, Doan TN, Ragonnet R, Marais BJ, Guernier V, Trauer J. The risk of global epidemic replacement with drug resistant M. tuberculosis strains. *Int J Infect Dis* 2017; 56: 14-20

McBryde, E.S., Meehan, M.T., Doan, T.N, (2017). The risk of global epidemic replacement with drug resistant M. tuberculosis strains. *Int J Infect Dis*.

Moyo N, **Trauer J**, Trevan P, Baker AM, Musemburi J, McGrath K, Nolan A, McIntyre E, Hulls J, **Denholm JT**. Tuberculosis screening in an aged care residential facility in a low-incidence setting. *Commun Dis Intell Q Rep*. 2017 Sep 1;41(3):E209-E211.

Nagalingam, G., Vinuesa, C.G, Britton, W.J, Saunders, B.M. (2017). Modulation of Roquin function in myeloid cells reduces Mycobacterium tuberculosis induced inflammation. *J. Immunology. J Immunol*. 199(5):1796-1804. doi: 10.4049/jimmunol.1602069.

Nguyen, T.K.P, Tran, T.H., Nguyen, D.V., Tran, M.D., Graham SM, Marais BJ. (2017). Disease spectrum and management of children admitted with acute respiratory infection in Viet Nam. *Trop Med Int Health; In press*

Nguyen, T.K.P., Tran, T.H., Robert, C.L., Fox, G., Graham, S.M., Marais BJ. (2017). Risk factors for child pneumonia - focus on the Western Pacific Region. *Ped Resp Rev; 21: 95-101*

Nguyen T.K.P, Tran T.H., Robert C.L., Graham S.M., Marais B.J. (2017). Child pneumonia - focus on the Western Pacific Region. *Ped Resp Rev; 21: 102-110*

Nguyen PTK, Nguyen NV, Phung TD, Marais B. (2017) X-pert MTB/RIF® Diagnosis of Twin Infants with Tuberculosis in Da Nang, Viet Nam. *J Clin Med*. 6(10). pii: E96.]

Nguyen TKP, Tran TH, Pham HV, Tu L, Graham SM, Marais BJ. (2017) Encouraging rational antibiotic use in childhood pneumonia - focus on the Western Pacific region and Vietnam. *BMC Pneumonia*. 9:7.

Oliwa J.N., Marais B.J. (2017) Vaccines to prevent pneumonia in children - a developing country perspective. *Paediatr Respir Rev*. 22:23-30.

Outhred A, Britton P, Marais BJ. (2017) Transmission of drug-resistant tuberculosis and its impact on children. *J Infect*. 74 Suppl 1:S128-S135

Parumasivam T, Leung SS, Tang P, Mauro C, Britton W, Chan HK. (2017) The Delivery of High-Dose Dry Powder Antibiotics by a Low-Cost Generic Inhaler. *AAPS J*. 19(1):191-202.

Parumasivam T, Ashhurst AS, Nagalingam G, Britton WJ, Chan HK. (2017) Inhalation of Respirable Crystalline Rifapentine Particles Induces Pulmonary Inflammation. *Mol Pharm*. 14(1):328-335.

Palendira, U., Parumasivam T, A.S. Ashhurst, G. Nagalingam, W.J. Britton, H. K. Chan. (2017)

Inhalation of Respirable Crystalline Rifapentine Particles Induces Pulmonary Inflammation. *Molecular Pharmaceutics* Jan 3;14(1):328-335.

Perez-Velez CM, Roya-Pabon CL, Marais BJ. (2017) A systematic approach to diagnosing intra-thoracic tuberculosis in children. *J Infect.* 74 Suppl 1:S74-S83.

Petersen, E., Khamis, F., Migliori, G.B., Bay, J.G., Marais, B., Wejse, C., Zumla, A. (2017). De-isolation of patients with pulmonary tuberculosis after start of treatment – clear, unequivocal guidelines are missing. *Int J Infect Dis*; 56: 34-8

Petersen E, Maeurer M, Marais B, Migliori GB, Mwaba P, Ntoumi F, Vilaplana C, Kim K, Schito M, Zumla A. World TB Day 2017: Advances, Challenges and Opportunities in the “End-TB” Era. *Int J Infect Dis*; 56: 1-5

Phuong NTK, Hoang TT, Van PH, Tu L, Graham SM, Marais BJ. (2017) Encouraging rational antibiotic use in childhood pneumonia: a focus on Vietnam and the Western Pacific Region. *Pneumonia (Nathan)*. 9:7.

Quan, D., Nagalingam, G., Payne, R., Triccas, J.A. (2017). New tuberculosis drug leads from naturally occurring compounds. *Int J Infect Dis.* 56:212-220.

Ragonnet R, Trauer JM, Denholm JT, Marais BJ, McBryde ES. (2017) High Rates of Multidrug-Resistant and Rifampicin-Resistant Tuberculosis among Re-Treatment Cases: Where do they Come from? *BMC Infect Dis*; 17:36

Ragonnet R, Trauer JM, McBryde ES, Houben R, Denholm JT, Handel A, Sumner T. (2017). Is IPT more Effective in High Burden Settings? Modelling the Effect of TB Incidence on IPT Impact. *Int J TB Lung Dis*;21(1):60-66 .

Ragonnet R, Trauer JM, Denholm JT, Marais BJ, McBryde ES. (2017) A user-friendly mathematical modelling web interface to assist local decision making in the fight against drug-resistant tuberculosis. *BMC Infect Dis.* 17(1):374.

Ragonnet R, Trauer JM, Scott N, Meehan MT, Denholm JT, McBryde ES. (2018) Optimally capturing latency dynamics in models of tuberculosis transmission. *Epidemics.* 21:39-47.

Scott K, Morris A, Marais BJ. (2017). Medical student use of digital learning resources. *Clinical Teacher*; 13: 1-5

Shaweno D, Shaweno T, Trauer JM, Denholm JT, McBryde ES. (2017). Heterogeneity of Distribution of Tuberculosis in Sheka Zone, Ethiopia: Drivers and Temporal Trends. *Int J TB Lung Dis*, 21(1):79-85.

Shaweno D, Trauer JM, Denholm JT, McBryde ES (2017) A novel Bayesian geospatial method for estimating tuberculosis incidence reveals many missed TB cases in Ethiopia. *BMC Infect Dis.* 17(1):662.

Snow, K., Hesselning, A. C., Naidoo, P., Graham, S. M., Denholm, J., Preez, K. (2017). Tuberculosis in adolescents and young adults: epidemiology and treatment outcomes in the Western Cape. *INT J Tuberc Lung Dis* 21(6):000–000

Tha Alene, K.A., Viney, K., McBryde, E.S., Clements, A.C. (2017). Spatial patterns of multidrug resistant tuberculosis and relationships to socio-economic, demographic and household factors in northwest Ethiopia. *PloS one*; 12(2).

Thirunavukkarasu S, Plain KM, de Silva K, Marais BJ, Whittington RJ. (2017) Applying the One Health concept to mycobacterial research – overcoming parochialism. *Zoonoses and Public Health.* 64:401-422.

Tramontana, A., Leslie, D., Nolan, A., Globan, M., Fyfe, J., Denholm, J.T, Guy, S. Cure of Pulmonary XDR TB in Melbourne: Local control of a global health challenge. *Med J Aust*, March 2017.

Tran, A.T., Watson, E.E., Pujari, V., Conroy, T., Dowman, L.J., Giltrap, A.M., Pang, A., Wong, W-R, Linington, R.G., Mahapatra, S., Saunders, J., Charman, S.A., West, N.P., Bugg, T.D.H, Tod, J., Dowson, C.G., Roper, D.I, Crick, D.C., Britton, W.J., Payne, R.J. (2017). Synthesis of Sansanmycin Natural Product Analogues as Potent and Selective Anti-Mycobacterials that Inhibit Lipid I Biosynthesis. *Nature Communications* 8:14414.

Tod, J., Dowson, C.G., Roper, D.I, Crick, D.C., Britton, W.J., Payne, R.J. (2017). Synthesis of Sansanmycin Natural Product Analogues as Potent and Selective Anti-Mycobacterials that Inhibit Lipid I Biosynthesis. *Nature Communications* 8:14414.

Williams J, Mayes C, Komesaroff P, Kerridge I, Lipworth W. (2017) Conflicts of interest in medicine: taking diversity seriously. *Intern Med J.* 47(7):739-746.

Editorials/commentaries

Petersen E, Maeurer M, Marais B, Migliori GB, Mwaba P, Ntoumi F, Vilaplana C, Kim K, Schito M, Zumla A. World TB Day 2017: Advances, Challenges and Opportunities in the “End-TB” Era. *Int J Infect Dis* 2017; 56: 1-5

Marais BJ. Improving access to tuberculosis preventive therapy and treatment for children. *Int J Infect Dis* 2017. 56: 122-5

Zumla A, Schito M, Chakaya J, Marais B, Mwaba P, Migliori GB, Hoelscher M, Maeurer M, Wallis RS. World TB Day 2016 - Reflections on the global TB emergency. *Lancet Resp Med* 2016; 4: 249-51

Hill-Cawthorne G, Marais BJ. Zika virus – brief overview. Springer Nature 2016. March 29. springernature.com/gp/group/zika-... @SpringerNature

Scientific letters

Marais BJ, ...Standardized methods for enhanced quality and comparability of tuberculous meningitis studies – in reply. *Clin Infect dis* 2017: In press

Marais BJ, Graham S. Symptom-based screening of child TB contacts – defining “symptomatic”. *Int J Tuberc Lung Dis* 2017; In press

Fox GJ, Dobler C, Marais BJ, Denholm J. Preventive therapy for latent tuberculosis infection – In reply. *Int J Infect Dis* 2017; E-pub ahead of print

Fox GJ, Dobler CC, Marais BJ, Denholm JT. (2017) Response to: Socio-political prescriptions for latent tuberculosis infection are required to prevent reactivation of tuberculosis. *Int J Infect Dis*. 58:117-118.

Marais BJ, Heemskerk D, Thwaites GE. (2017) Reply to Dhawan and Sankhyan: Tuberculous Meningitis International Research Consortium. *Clin Infect Dis*.64(12):1805.

2016 Publications

TB-CRE Chief Investigator TB-related publications:

Alene, K.A., Viney, K., McBryde, E., Tesfahun, A., Clements, A. (2016). Treatment outcomes in patients with multi-drug resistant tuberculosis in north-west Ethiopia. *Tropical Medicine and International Health*; 22(3):351-362.

Al Yazidi, L.S., Marais, B.J., Hsu, P., Soundappan, S.V., Kesson, A., Isaacs, D. (2016). A 5-year-old Girl with Chest Wall Mass. *Ped Infect Dis J*: 35: 592-3

Cohen, J., Powderley, W.G., Opal, S.M. Britton, W.J. (2016) Leprosy, in *Infectious Diseases*, 4th Ed. p. 108:1-7.

Cai Y, Yang Q, Liao M, Wang H, Zhang C, Nambi S, Wang W, Zhang M, Wu J, Deng G, Deng Q, Liu H, Zhou B, Jin Q, Feng CG, Sassetti CM, Wang F, Chen X. (2016). xCT increases tuberculosis susceptibility by regulating antimicrobial function and inflammation. *Oncotarget*. 24;7(21):31001-13

Coulter, C., Allworth, T., Antic, R,...Denholm, J.T...Waring, J. (2016). Infection control guidelines for the management of patients with suspected or confirmed pulmonary tuberculosis. *Counoupas, C, Pinto, R, Nagalingam, G, Hill-Cawthorne, G, Feng, CG, Britton, WJ, Triccas, JA. (2016). Mycobacterium tuberculosis Components Expressed During Chronic Infection of the Lung Contribute to Long-Term Control of Pulmonary Tuberculosis in Mice. NPJ Vaccines 1: 16012-9*

Dale, K., Tay, E.L., Trevan, P., Denholm, J.T. (2016). Mortality among tuberculosis cases in Victoria, 2002-2013; case fatality and factors associated with death. *Int J TB Lung Dis*;20(4):515-523.

Denholm, J., Coulter C., Bastian, I. (2016).. Defining a tuberculosis cluster or outbreak. *Comm Dis Int*;40(3):E357-E360.

Denholm, J.T, Bissell, K., Viney, K., Durand, A.M., Cash, H.L., Roseveare, C., Merilles, Jr OE, Harries, A.D., Biribo, S. (2016). Research ethics committees in the Pacific Islands: gaps and opportunities for health sector strengthening. *Public Health Action*, in press October

Denholm, J.T., Thevarajan, I. Tuberculosis and the traveller: evaluating and reducing risk through travel consultation. *Journal of Travel Medicine*, 2016;23(3): taw008

Denholm JT. Ethics, tuberculosis and compassion: lessons from praxis. *Journal of Bioethical Inquiry*, 2016;13(1):161-162.

Fatima, R., Qadeer, E., Yaqoob, A., Haq, M.U., Majumdar, S.S., Shewade, H.D., Stevens, R., Creswell, J., Mahmood, N., Kumar, A.M. (2016). Extending 'Contact Tracing' into the community within a 50-metre radius of an index tuberculosis patient Using Xpert MTB/RIF in urban, Pakistan: Did it increase case detection? PLoS One. Nov; 11(11)

Fox, G., Dobler, C., Marais, B., Denholm, J.T. (2016). Preventive therapy for latent tuberculosis infection - the promise and the challenges. International Journal of Infectious Diseases, in press November.

Gilchrist JJ, Heath JN, Msefula CL, Gondwe EN, Naranbhai V, Mandala W, MacLennan JM, Molyneux EM, Graham SM, Drayson MT, Molyneux ME, MacLennan CA. (2016). Cytokine profiles during invasive nontyphoidal Salmonella disease predict outcome in African children. Clin Vaccine Immunol; 23: 601-609

Giltrap, A.M., Dowman, L.J., Nagalingam, G., Ochoa, J.L., Linington, R.G., Britton, W.J., Payne, R.J. (2016) Total Synthesis of Teixobactin. Organic Letters 18:2788-91.

Globan M, Lavender CJ, Leslie D, Brown LK, Denholm JT, Raios K, Sievers A, Kelly H, Fyfe JAM. Molecular epidemiology of tuberculosis in Victoria, Australia, reveals low level of transmission. Int J TB Lung Dis, 2016;20(5):652-658.

Gurjav, U., Burneebaatar, B., Narmandah, E., Tumenbayar, O., Jelfs, P., Hill-Cawthorne, G.A, Marais, B.J., Sintchenko, V. (2016). Transmission of multi-drug resistant tuberculosis in Mongolia is driven by Beijing strains of Mycobacterium tuberculosis resistant to all first-line drugs. Tuberculosis; 101: 49-53

Gurjav, U., Burneebaatar, B., Ochirbat, B., Hill-Cawthorne, G.A., Marais, B.J., Sintchenko, V.. (2016). Transmissions of multi-drug resistant tuberculosis in Mongolia is driven by Beijing strains of Mycobacterium tuberculosis resistant to all first-line drugs. Tuberculosis;101:49-53.

Gurjav, U., Outhred, A., Holmes, N., Wang, Q., Hill-Cawthorne, G.A., Marais, B.J, Sintchenko, V. (2016). Whole genome sequencing demonstrates limited transmission within identified Mycobacterium tuberculosis clusters in New South Wales, Australia. PLoS One 2016; 11:

Ho, J., Fox, G., Marais, B. (2016). Passive case finding for tuberculosis is not enough. Int J Mycobacteriol; 5: 374-8

Houben, R.M., Menzies, N.A., Sumner, T, ...Denholm, J.T.... Vassal, A., White, R.G. (2016). Feasibility of achieving the 2025 WHO Global TB Targets in South A

Africa, China and India: A combined analysis of 11 models. *Lancet Global Health*;4(11):806-811.

Lee, H.G., William, T., Menon, J., Ralph, A.P., Ooi, E.E., Hou, Y., Sessions, O., Yeo, T.W. (2016). Tuberculous meningitis is a major cause of mortality and morbidity in adults with central nervous system infections in Kota Kinabalu, Sabah, Malaysia: an observational study. *BMC Infect Dis*. Jun 16;16(1):296.

Leung, S.S, Parumasivam, T., Gao, F.G, Carrigy, N.B., Vehring, R., Finlay, W.H, Morales, S., Britton, W.J., Kutter, E., Chan, H.K. (2016). Production of inhalation phage powders using spray freeze drying and spray drying techniques for treatment of respiratory infections. *Pharmaceutical Research*. 33(6):1486-96.

Loveday, M., Sunkari, B., Marais, B.J, Osborne, G., Master, I., Brust, J.C.M. (2016). The dilemma of managing asymptomatic children with a laboratory diagnosis of drug-resistant tuberculosis. *Arch Dis Child* 101: 608-613

Marais, B.J. (2016). The global tuberculosis situation and the inexorable rise of drug-resistant disease. *Adv Drug Delivery Rev*; 102: 3-9

Marais BJ, Seddon JA, Detjen A, van der Werf M, Grzemska M, Hesselning AC, Curtis N, Graham SM - On behalf of the WHO Child TB sub-group. Interrupted BCG vaccination is a major threat to global child health. *Lancet Resp Med* 2016; 4: 251-3

Marais, B.J., Graham, S.M. (2017). Childhood tuberculosis – a roadmap towards zero deaths. *J Paed Child Health* 2016; 52: 258-61

Marais BJ, Outhred A, Zumla A. Engaging high and low burden countries in the “TB end game”. *Int J Infect Dis* 2016; 45:100-2

Martinez, E., Bustamante, A., Menon, R., Wang, Q., Jelfs, P., Marais, B.J., Chen SCA, Sintchenko V. Whole-genome sequencing of *Mycobacterium tuberculosis* for rapid diagnostics: feasibility of decentralised model. *Lancet Respiratory Medicine* 2016; 4(4):e13-4.

Mason, P., Snow, K., Asugeni, R., Massey, P., Viney, K. (2016). Tuberculosis and gender in the Asia-Pacific region. *Australian and New Zealand Journal of Public Health.*; Early view available at: [http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1753-6405/earlyview](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1753-6405/earlyview)

Meehan, M., Cocks, D., Trauer, J., McBryde, E. Coupled, multi-strain SIS, SIR and SIRS epidemic models. 13 Nov 2016

Menzies NA, Gomez GB, Bozzani F ...Denholm JT..., White RG, Vassal A. Cost-effectiveness and resource implications of aggressive action on TB in China, India and South Africa: a combined analysis of nine models. *Lancet Global Health*, 2016;4(11):816-826.

Moradigaravand D, Grandjean L, Martinez E, Li H, Zheng J, Coronel J, Moore D, Torok ME, Sintchenko V, Huang H, Javid B, Parkhill J, Peacock S, Köser C. DfrA-thyA double deletion in para-aminosalicylic acid resistant *Mycobacterium tuberculosis* Beijing strains. *Journal of Antimicrobial Chemotherapy* 2016; 60(6):3864-7.

Muthuri SG, Venkatesan S, Myles PR,... Denholm JT,... Nguyen-Van-Tam J. Impact of neuraminidase inhibitors on influenza A(H1N1)pdm09-related pneumonia: an IPD meta-analysis. *Influenza and Other Respiratory Viruses*, 2016;10(3):192-204. doi: 10.1111/irv.12363.

Outhred, A.C., Holmes, N., Sadsad R, Martinez, E., Jelfs, P., Hill-Cawthorne, G.A., Gilbert, G.L., Marais, B.J., Sintchenko, V. (2016). Identifying likely transmission pathways within a 10-year community outbreak of tuberculosis by deep whole genome sequencing. *PLoS One*; Mar 3; 11(3)

Parumasivam, T, Chan, J.G.Y., Pang, A., Quan, D.H., Triccas, J.A., Britton, W.J., Chan, H.K. (2016). In vitro evaluation of novel inhalable dry powders consisting of thioridazine and rifapentine for rapid tuberculosis treatment. *Eur J Pharmaceutics Biopharmaceutics*. 107:205-14.

Parumasivam, T., Chang, Y.K., Abdelghany, S., Ye, T.T., Britton, W.J., Chan, H.K. (2016). Dry powder inhalable formulations for anti-tubercular therapy. *Advanced Drug Delivery Reviews*:102:83-101.

Parumasivam, T., Leung, S.S., Quan, D.H., Triccas, J.A., Britton, W.J., Chan, H.K. (2016). Rifapentine-loaded PLGA microparticles for tuberculosis inhaled therapy: Preparation and in vitro aerosol characterization. *Eur J Pharm Sci*. 88:1-11.

Parumasivam T, Leung SSY, Tang P, Mauro C, Britton WJ, Chan HK. (2017). The Delivery of High Dose Dry Powder Antibiotics by a Low-Cost Generic Inhaler. *Amer Assoc Pharm Sci J (AAPS J)* Jan;19 (1):191-202

Pinto R, Nambiar JK, Leotta L, Britton WJ, Triccas JA. (2016). Influence of Phthiocerol Dimycocerosate on CD4+ T cell priming and persistence during Mycobacterium tuberculosis infection. *Tuberculosis* 99:25-30.

Pohl C, Rutaihwa LK, Haraka F, Nsubuga M, Aloï F, Ntinginya NE, Mapamba D, Heinrich N, Hoelscher M, Marais BJ, Jugheli L, Reither K. Limited value of whole blood Xpert® MTB/RIF for diagnosing tuberculosis in children. *J Infect* 2016; 73: 326-35

Pollett S, Banner P, O'Sullivan MV, Ralph AP. Epidemiology, Diagnosis and Management of Extra-Pulmonary Tuberculosis in a Low-Prevalence Country: A Four Year Retrospective Study in an Australian Tertiary Infectious Diseases Unit. *PLoS One*. 2016 Mar 10;11(3):e0149372.

Prendergast KA, Counoupas C, Leotta L, Eto C, Bitter W, Winter N, Triccas JA. The Ag85B protein of the BCG vaccine facilitates macrophage uptake but is dispensable for protection against aerosol Mycobacterium tuberculosis infection. 2016. *Vaccine*. 34:2608-15.

Ritz N, Casalaz D, Donath S, Tebruegge M, Dutta B, Connell TG, Robins-Browne R, Britton WJ, Hanekom WA, Curtis N. (2016) Comparable CD4 and CD8 T cell responses and cytokine release after at-birth 1 and delayed BCG immunisation in infants born in Australia. *Vaccine* 34:4132-9.

Safarchi A, Octavia S, Don Wai Luu L, Tay ACY, Sintchenko V, Wood N, Marshall H, McIntyre P, Lan R. Better colonization of newly emerged Bordetella pertussis in the co-infection mouse model study. *Vaccine* 2016; 34(34):3967-71.

Sah, S.K, Sahu, S.K, Lamichhane, B., Bhatta, G.K, Bhandari, K.B., Owiti, P., Majumdar, S.S. (2016) Dotting the Three I's for collaborative TB-HIV activities: evaluation of a pilot programme in Kathmandu, Nepal. *Public Health Action*. Sep; 6(3):169-175

Scott K, Morris A, Marais BJ. Exploring the use of digital learning resources in medical training. *Med J Austr* 2016; 204: 411-412

Solomons RS, Grantham M, Marais BJ, van Toorn R. IMCI indicators of childhood tuberculous meningitis at a tertiary hospital in the Western Cape Province of South Africa. *Int J Tuberc Lung Dis* 2016; 20: 1309-1313

Solomons, R.S., Visser, D.H., Marais, B.J., Schoeman, J.F., van Furth, A.M. (2016) Diagnostic accuracy of a uniform research case definition for TBM in children – a prospective study. *Int J Tuberc Lung Dis J*; 20: 903-8

Stifter, S.A., Bhattacharyya, N., Pillay, R., Flórido, M., Triccas, J.A., Britton, W.J., Feng, C.G. (2016). Functional Interplay between Type I and II Interferons Is Essential to Limit Influenza A Virus-Induced Tissue Inflammation. *PLoS Pathog.* 12:e1005378.

Stoye, A., Nagalingam, G., Britton, WJ, Payne RJ. (2017) Synthesis of Norfijimycin A with activity against *Mycobacterium tuberculosis*. *Aust J Chem* 70(2):229-232. epub 9/12/2016.

Subedi S, Kong F, Jelfs P, Gray T, Meng C, Sintchenko V, Chen SCA. (2016). 16S-23S internal transcribed spacer region PCR and sequencer-based capillary gel electrophoresis has potential as an alternative to high performance liquid chromatography for identification of slowly growing nontuberculous *Mycobacteria*. *PLoS One* 21 Sept.

Tadolini M, Garcia-Prats AJ, D'Ambrosio L, Hewison C, Centis R, Schaaf HS, Marais BJ, Ferreira H, Caminero JA, Jonckheere S, Sinha A, Herboczek K, Khaidarkhanova Z, Hayrapetyan A, Khachatryan N, Urtkmedidze I, Loreti C, Esposito S, Matteelli A, Furin J, Varaine F, Migliori GB. (2016). Compassionate use of new drugs in children and adolescents with multidrug-resistant and extensively-drug resistant tuberculosis: early experiences and challenges. *Eur Resp J*; June 23

Trauer JM, Achar J, Parpieva N, et al. Modelling the effect of short-course multidrug-resistant tuberculosis treatment in Karakalpakstan, Uzbekistan. *BMC medicine* 2016; 14(1): 187.

Trauer JM, Denholm JT, Waseem S, Ragonnet R, McBryde ES. Scenario Analysis for Programmatic Tuberculosis Control in Western Province, Papua New Guinea. *Am J Epidemiol* 2016.

Trauer, J.M., Moyo, N., Tay, E.L., Dale, K., Ragonnet, R., McBryde, E.S., Denholm, J.T. (2016) Risk of Active Tuberculosis in the Five Years following Infection . . . 15%? *Chest*: 149(2):516-525.

Triccas, J.A., Counoupas, C. Novel vaccination approaches to prevent tuberculosis in children. 2016. *Pneumonia*. 8:18

Triccas, J.A., Feng, C.G. (2016). Development and delivery of anti-tuberculosis drugs, vaccines and immunotherapeutics. 2016. *Adv Drug Deliv Rev*. 102:1-2.

Tringm, Q.M, Nguyen, H.L., Do, T.N., Nguyen, V.N., Nguyen, B.H., Nguyen, T.V., Sintchenko, V, Marais, B.J. (2016) Tuberculosis and HIV co-infection in Vietnam. *International Journal of Infectious Diseases*;46:56-60.

Triasih, R., , RS, Duke, T., Robertson, C., Sawyer, S.M., Graham, S.M. A mixed-methods evaluation of adherence to preventive treatment among child tuberculosis contacts in Indonesia. *Int J Tuberc Lung Dis* 2016; 20: 1078-1083

Wallis, R.S., Maeurer, M., Mwaba, P., Chakaya, J., Rustomjee, R., Migliori, G.B., Marais, B., Schito, M., Churchyard, G., Swaminathan, S., Hoelscher, M., Zumla, A. (2016). Tuberculosis – Advances in Development of New Drugs, Treatment Regimens, Host-Directed Therapies and Biomarkers. *Lancet Infect Dis*; 16: e34-46

Wang, T., Feng, G., Pang, Y., Liu, J., Yang, Y.; Zhang, L.; Zhan, L.; Marais, B.J., Zhao, Y., Zhao, G. (2016). Sub-optimal specificity of modified Ziehl-Neelsen staining for quick identification of tuberculous meningitis. *Frontiers Microbiol*; Dec 27;7:2096.

Wang, T., Feng, G., Pang, Y., Liu, J., Zhou, Y., Yang, Y., Dai, W., Zhan, Chen, P., Marais, B.J., Zhao, Y., Zhao, G. (2016). High rate of drug resistance among tuberculous meningitis cases in Shaanxi province, China. *Nature Sci Rep*; 6: 25251

Woon, H.G., Braun, A., Li, J., Smith, C., Edwards, J., Sierro, F., Feng, C.G., Khanna, R., Elliot, M., Bell, A., Hislop, A.D., Tangye, S.G., Rickinson, A.B., Gebhardt, T., Britton WJ, Palendira, U. (2016). Compartmentalisation of total and virus-specific tissue-resident memory CD8+ T cells in human lymphoid organs. *PLoS Pathogens* Aug 19;12(8)

Yu, M., Nagalingam, G., Ellis, S., Martinez, E., Sintchenko, V., Spain, M., Rutledge, P., Todd, M., Triccas, J. (2016). Non-toxic metal-cyclam complexes, a new class of compounds with potency against drug-resistant *Mycobacterium tuberculosis*. *Journal of Medicinal Chemistry* 59(12):5917-21.

Zhang, G., Liu, X., Wang, W., Cai, Y., Li, S., Chen, Q., Liao, M., Zhang, M., Zeng, G., Zhou, B., Feng, C.G., Chen, X. (2016). Down-regulation of miR-20a-5p triggers cell apoptosis to facilitate mycobacterial clearance through targeting JNK2 in human macrophages. *Cell Cycle*. 16-15(18):2527-38

Zumla A, Schito M, Chakaya J, Marais B, Mwaba P, Migliori GB, Hoelscher M, Maeurer M, Wallis RS. (2016). World TB Day 2016 - Reflections on the global TB emergency. *Lancet Resp Med*; 4: 249-51

Guidelines and reports

Interrupted BCG vaccination is a major threat to global child health. Marais BJ, Seddon JA, Detjen AK, van der Werf MJ, Grzemska M, Hesselning AC, Curtis N, Graham SM; WHO Child

Marais BJ, Graham SM Childhood tuberculosis: a roadmap towards zero deaths. (2016.) *J Paediatr Child Health*: 52: 258-61 The Roadmap for Childhood Tuberculosis.

Graham, A.K. Detjen, Starke, J.R., Donald, P.R (eds). Handbook of Child and Adolescent Tuberculosis. SM Oxford University Press, Childhood MDR TB for healthcare workers: an online course. The Union, Paris, <https://childhoodtb.theunion.org/courses/CTB2/en/intro>

TB Subgroup. *Lancet Respir Med* 2016; 4: 251-253

Seddon, J.A., Graham, S.M. *Trans R.* (2016). Child tuberculosis: can the End TB Strategy deliver? *Soc Trop Med Hyg*; 110: 155-157

2015 Publications

TB-CRE Chief Investigator TB-related publications:

Leotta L, Spratt JM, Kong CU, Triccas JA. An inducible expression system for high-level expression of recombinant proteins in slow growing mycobacteria.

Plasmid. 2015 Sep;81:27-31.

Flórido M, Pillay R, Gillis CM, Xia Y, Turner SJ, Triccas JA, Stambas J, Britton WJ. Epitope-specific CD4+, but not CD8+, T-cell responses induced by recombinant influenza A viruses protect against Mycobacterium tuberculosis infection. Eur J Immunol. 2015 Mar;45(3):780-93.

Dobler CC, Martin A, Marks GB. Benefit of treatment of latent tuberculosis infection in individual patients. Eur Respir J 2015; 46(5): 1397-1406.

Dobler CC, Korver S, Batbayar O, Nyamdulam B, Oyuntsetseg S, Tsolmon B, Surmaajav B, Bayarjargal B, Marais BJ. Multidrug-Resistant Tuberculosis in Patients for Whom First-Line Treatment Failed, Mongolia, 2010-2011. Emerg Infect Dis 2015; 21(8): 1451-1454.

Khandkar C, Harrington Z, Jelfs PJ, Sintchenko V, Dobler CC. Epidemiology of Peripheral Lymph Node Tuberculosis and Genotyping of M. tuberculosis Strains: A Case-Control Study. PLoS One. 2015; 10(7):e0132400.

Dobler CC, Korver S, Batbayar O, Oyuntsetseg S, Tsolmon B, Wright C, Solongo B, Marais BJ. Success of community-based directly observed anti-tuberculosis treatment in Mongolia. Int J Tuberc Lung Dis 2015; 19(6): 657-662.

Teo SSS, Tay EL, Douglas P, Krause V, Graham SM. The epidemiology of child tuberculosis in Australia: 2003-2012. Med J Aust 2015; 203: 440

Triasih R, Robertson C, de Campo J, Duke T, Choridah L, Graham SM. An evaluation of chest X-ray in the context of community-based screening of child tuberculosis contacts. Int J Tuberc Lung Dis 2015; 19:1428-1434

Seddon JA, Jenkins HE, Liu L, Cohen T, Black RE, Becerra MC, Graham SM, Sismanidis C, Dodd PJ. Counting children with tuberculosis: why numbers matter. *Int J Tuberc Lung Dis* 2015; 19:S9-S16

Graham SM, Grzemska M, Gie RP. The background and rationale for a new fixed-dose combination for first-line treatment of tuberculosis in children. *Int J Tuberc Lung Dis* 2015; 19:S3-S8

Nicol MP, Gnanashanmugam D, Browning R, Click E, Cuevas LE, Detjen A, Graham SM, Levin M, Makhene M, Nahid P, Perez-Valez CM, Reither K, Song R, Spiegel HML, Worrell C, Zar HJ, Walzl G. A blueprint to address research gaps in the development of biomarkers for pediatric TB. *Clin Infect Dis* 2015; 61(suppl 3):S164-S172

Graham SM, Cuevas LE, Jean-Philippe P, Browning R, Casenghi M, Detjen AK, Gnanashanmugam D, Hesselning AC, Kampmann B, Mandalakas A, Marais BJ, Schito M, Spiegel HML, Starke JR, Worrell C, Zar HJ. Clinical case definitions for classification of intrathoracic tuberculosis in children: an update. *Clin Infect Dis* 2015; 61(suppl 3):S179-S187

Chisti M, Salam MA, Smith JH, Ahmed T, Pietroni MAC, Shahunja KM, Shahid ASMSB, Faruque ASG, Ashraf H, Bardhan PK, Uzzaman S, Graham SM, Duke T. Bubble continuous positive airway pressure for children with severe pneumonia and hypoxaemia in Bangladesh: an open randomised controlled trial. *Lancet* 2015; 386: 1057-1065

Tebruegge M, Dutta B, Donath S, Ritz N, Forbes B, Camacho-Badilla K, Clifford V, Zufferey C, Robins-Browne R, Hanekom W, Graham SM, Connell T, Curtis N. Mycobacteria-specific cytokine responses detect TB infection and distinguish latent from active TB. *Am J Resp Crit Care Med* 2015; 192: 485-492

Triasih R, Robertson C, Duke T, Graham SM. Risk of infection and disease with *Mycobacterium tuberculosis* among children identified through prospective community-based contact screening in Indonesia. *Trop Med Int Health* 2015; 20: 737-743

Graham SM, Grzemska M, Brands A, Nguyen H, Amini J, Triasih R, Talukder K, Ahmed S, Amanullah F, Kumar B, Tufail P, Detjen AK, Marais BJ, Hennig C, Islam T Regional initiatives to address the challenges of tuberculosis in children: perspectives from the Asia-Pacific region. *Int J Infect Dis* 2015; 32: 166-169

Oliwa JN, Karumbi JM, Marais BJ, Madhi SA, Graham SM. Tuberculosis as a cause or comorbidity of childhood pneumonia in tuberculosis endemic settings: a systematic review. *Lancet Resp Med* 2015; 3: 235-243

Triasih R, Duke T, Robertson C, Graham SM. A prospective evaluation of the symptom-based screening approach to the management of children that are contacts of tuberculosis cases. *Clin Infect Dis* 2015; 60: 12-18

Rangaka MX, Cavalcante SC, Marais BJ, Thim S, Martinson NA, Swaminathan S, Chaisson RE. Controlling the Seedbeds of Tuberculosis: Diagnosis and Treatment of Tuberculosis Infection. *Lancet* 2015; October 26 E-pub ahead of print

Graham SM, Cuevas LE, Jean-Philippe P, Casenghi M, Browning R, Detjen AK, Gnanashanmugam D, Kampmann B, Mandalakas A, Marais BJ, Schito M, Spiegel H, Starke JR, Worrell C, Hesselning AC, Zar HJ. Clinical Case Definitions for Classification of Intrathoracic Tuberculosis in Children: An Update. *Clin Infect Dis* 2015; Suppl 3: S179-87

Nachman S, Ahmed A, Amanullah F, Becerra MC, Botgros R, Brigden G, Browning R, Gardiner E, Hafner R, Hesselning A, How C, Jean-Philippe P, Lessem E, Makhene M, Mbelle N, Marais B, McIlleron H, Mc Neeley D, Mendel C, Murray S, Navarro E, Oramasionwu GE, Porcalla AR, Powell C, Powell M, Rigaud M, Rouzier V, Samson P, Schaaf HS, Shah S, Starke J, Swaminathan S, Wobudeya E, Worrell C. Towards earlier inclusion of Children in Tuberculosis drugs trials: Consensus statements from an Expert Panel. *Lancet Infect Dis* 2015; 15: 711-20

Oliwa J, Karumbi J, Marais BJ, Madhi SA, Graham S. Tuberculosis as a cause or comorbidity of childhood pneumonia in tuberculosis-endemic countries: a systematic review. *Lancet Resp Med* 2015; 3: 235-43

Trinh MQ, Nguyen HL, Nguyen VN, Nguyen VA, Sintchenko V, Marais BJ. Tuberculosis and HIV co-infection – focus on the Asia-Pacific region. *Int J Infect Dis* 2015; 32: 170-8

Islam T, Marais BJ, Nhung NV, Chiang C-Y, Yew WW, Yoshiyama T, Mira NR, van den Broek J, Lumb R, Nishikiori Nobuyuki, Reichman L. Western Pacific Regional Green Light Committee: progress and way forward. *Int J Infect Dis* 2015; 32: 161-5

von Delft A, Dramowski A, Khosa C, Kotze K, Lederer P, Mosidi T, Peters JA, Smith J, van der Westhuizen H, von Delft D, Willems B, Bates M, Craig G, Maeurer M, Marais BJ, Mwaba P, Nunes E, Nyirenda T, Oliver M, Zumla A. Why Healthcare Workers are Sick of Tuberculosis. *Int J Infect Dis* 2015; 32: 147-51

Brigden G, Furin J, van Gulik C, Marais B. Getting it right for children: improving TB treatment access and new treatment options. *Expert Rev Anti Infect Ther* 2015; 13: 451-61

Bates M, Marais BJ, Zumla A. Tuberculosis Comorbidity with Communicable and Noncommunicable Diseases. *Cold Spring Harb Perspect Med* 2015; Feb 6. pii: a017889. doi: 10.1101/cshperspect.a017889

Gurjav U, Burneebaatar B, Narmandah E, Tumenbayar O, Ochirbat B, Hill-Cawthorne GA, Marais BJ, Sintchenko V. Spatiotemporal evidence for cross-border spread of MDR-TB along the Trans-Siberian Railway line. *Int J Tuberc Lung Dis* 2015; 19: 1376-82

Gurjav U, Jelfs P, Hill-Cawthorne GA, Marais BJ, Sintchenko V. Genotype heterogeneity within geospatial hotspots suggest foci of imported disease in Sydney, Australia. *Infection, Genetics and Evolution* 2015; Jul 15. pii: S1567-1348(15)00276-2

Dobler CC, Korver S, Batbayar O, Nyamdulam B, Oyuntsetseg S, Bold Tsolmon B, Surmaajav B, Bayarjargal B, Marais BJ. Multidrug-resistant tuberculosis in patients for whom first-line treatment failed, Mongolia 2010-2011. *Emerg Infect Dis* 2015; 21: 1451-4

Solomons RS, Visser DH, Donald PR, Marais BJ, Schoeman JF, van Furth AM. The diagnostic value of cerebrospinal fluid chemistry results in childhood tuberculous meningitis. *Child's Nerv Syst* 2015; 31: 1335-40

García-Basteiro AL, López-Varela E, Augusto OJ, Gondo K, Muñoz J, Macete E, Jahit Sacarlal J, Marais B, Alonso PL, Ribó JL. Radiological findings in young children investigated for tuberculosis in Mozambique. *PLoS One* 2015; 10(5): e0127323

Outhred AC, Jelfs P, Suliman B, Hill-Cawthorne GA, Crawford ABH, Marais BJ, Sintchenko V. Added value of whole genome sequencing for management of highly drug resistant tuberculosis. *J Antimicrob Chemother* 2015; 70: 1198-202

Byrne AL, Marais BJ, Mitnick CD, Lecca L, Marks GB. Tuberculosis and chronic respiratory disease: a systematic review and meta-analysis. *Int J Infect Dis* 2015; 32: 138-46

Solomons R, Goussard P, Visser DH, Marais BJ, Gie RP, Schoeman JF, van Furth AM. Chest radiograph findings in childhood tuberculous meningitis. *Int J Tuberc Lung Dis* 2015; 19: 200-4

Solomons RS, Visser DH, Friedrich SO, Diacon AH, Hoek KGP, Marais BJ, Schoeman JF, van Furth AM. Improved diagnosis of childhood tuberculous meningitis using more than one nucleic acid amplification test. *Int J Tuberc Lung Dis* 2015; 19: 74-80

Marais BJ. Strategies to improve TB case finding in children. *Public Health Action* 2015; 5: 90-1

Negin J, Abimbola S, Marais BJ. Tuberculosis among older adults – time to take notice. *Int J Infect Dis* 2015; 32: 135-7

Graham SM, Grzemska M, Brands A, Nguyen H, Amini J, Triasih R, Talukder K, Ahmed S, Amanullah F, Detjen A1, Marais B, Hennig C, Islam T. Regional initiatives to address the

challenges of tuberculosis in children: perspectives from the Asia-Pacific region. *Int J Infect Dis* 2015; 32: 166-9

Marais BJ. 12-Dose regimen now also an option for preventing tuberculosis in children and adolescents. *JAMA Ped* 2015; 169: 208-10

Byrne A, Marais BJ, Mitnick CD, Lecca L, Marks GB. Risk factors for and origins of COPD. *Lancet* 2015; 385: 1723-4

S Barry, B Chan, M Ellis, YR Yang, ML Plit, G Guan, X Wang, WJ Britton & BM Saunders 2015. Identification of miR-93 for normalising miRNA in plasma from ethnically diverse TB patients. *J Cell Molec Med* 19(7):1606-13 Citations 1

Hare NJ, Chan B, Chan E, Kaufman KL, Britton WJ, & Saunders BM 2015.

Microparticles released from *Mycobacterium tuberculosis*-infected human macrophages contain increased levels of the type I interferon inducible proteins including ISG15. *Proteomics* 15(17) 3020-9.

Degeling C, Mayes C, Lipworth W, Kerridge I, Upshur R. (2015) The Political and Ethical Challenge of Multi-drug Resistant Tuberculosis. *Journal of Bioethical Inquiry*. 12, 107-11

TB-CRE Associate Investigator and Affiliates TB-related publications:

McIver L, Viney K, Harley D, Hanna L, Kienene T. Climate change, overcrowding and non-communicable diseases: the triple whammy of tuberculosis transmission risk in Pacific atoll countries. *Annals of the Australasian College of Tropical Medicine*. 2015; 16(3): 57-61.

Viney K, Hoy D, Roth A, Kelly P, Harley D and Sleigh A. The epidemiology of tuberculosis in the Pacific Islands region: 2000 to 2013. *Western Pacific Surveillance and Response Journal*. 2015; 6(3). doi:10.5365/wpsar.2015.6.1.001

Cavanaugh J, Viney K, Kienene T, Tabutoa K, Harley D, Kelly P, Sleigh A, O'Connor J, Mase S. Effect of diabetes on tuberculosis presentation and outcomes in Kiribati. *Tropical Medicine and International Health*, 2015; 20(5): 643-649.

Viney K, Cavanaugh J, Kienene T, Tabutoa K, Harley D, Kelly P, Sleigh A, O'Connor J, Mase S. Tuberculosis and diabetes mellitus in the Republic of Kiribati: a case-control study. *Tropical Medicine and International Health*, 2015; 20(5): 650-657.

McIver L, Viney K, Harley D, Hanna L, Kienene T. Climate change, overcrowding and non-communicable diseases: the triple whammy of tuberculosis transmission risk in Pacific atoll countries. *Annals of the Australasian College of Tropical Medicine*. 2015; 16(3): 57-61.

Viney K, Hoy D, Roth A, Kelly P, Harley D and Sleigh A. The epidemiology of tuberculosis in the Pacific Islands region: 2000 to 2013. *Western Pacific Surveillance and Response Journal*. 2015; 6(3). doi:10.5365/wpsar.2015.6.1.001

Abdallah A*, Hill-Cawthorne GA*, Otto TD, Coll F, Ummels R, Adroub SA, Gao G, Guerra-Assuncao JA, Malas T, Naeem R, Zhang H, Panigrahi AK, Ali S, Mcnerney R, Brosch R, Clark TG, Behr MA, Bitter W, Pain A (2015). Genomic expression catalogue of a global collection of BCG vaccine strains show evidence for highly diverged metabolic and cell-wall adaptations. [*Cofirstauthor] *Sci Rep* 21;5:15443

Coll F, McNerney R, Preston MD, Guerra-Assuncao JA, Warry A, Hill-Cawthorne GA, Mallard K, Nair M, Miranda A, Alves A, Perdigao J, Viveiros M, Portugal I, Hasan Z, Hasan R, Glynn JR, Martin N, Pain A, Clark TG (2015). Rapid determination of anti-tuberculosis drug resistance from whole-genome sequences. *Genome Med* 7:51; doi: 10.1186/s13073-015-0164-0,

Ali A, Hasan Z, McNerney R, Mallard K, Hill-Cawthorne G, Coll F, Nair M, Pain A, Clark TG, Hasan R (2015). Whole Genome Sequencing Based Characterization of Extensively

Drug-Resistant Mycobacterium tuberculosis Isolates from Pakistan. PLoS One;10(2):e0117771.

Perdigao J, Silva H, Machado D, Macedo R, Maltez F, Silva C, Jordao L, Couto I, Mallard K, Coll F, Hill-Cawthorne GA, McNerney R, Pain A, Clark TG, Viveiros M, Portugal I (2015). Genomic diversity of drug-resistant Mycobacterium tuberculosis isolates in Lisbon, Portugal: towards

tuberculosis genomic epidemiology. Int J Mycobacteriology doi: 10.1016/j.ijmyco.2015.01.001.

Hasan Z, Ali A, McNerney R, Mallard K, Hill-Cawthorne G, Coll F, Nair M, Pain A, Clark TG, Hasan R (2015). Whole genome sequencing-based characterization of extensively drug resistant (XDR) strains of Mycobacterium tuberculosis from Pakistan. Int J Mycobacteriology doi:10.1016/j.ijmyco.2014.10.050.

Kanji A, Hasan Z, Ali A, McNerney R, Mallard K, Coll F, Hill-Cawthorne G, Pain A, Nair M, Clark TG, Zaver A, Jafri S, Hasan R (2015). Characterization of genomic variations in SNPs of PE_PGRS genes reveals deletions and insertions in extensively drug resistant (XDR) M. tuberculosis strains from Pakistan. Int J Mycobacteriology doi: 10.1016/j.ijmyco.2014.10.051.

Wright CM, Westerkamp L, Korver S, Dobler CC. Community-based directly observed therapy (DOT) versus clinic DOT for tuberculosis: a systematic review and meta-analysis of comparative effectiveness. BMC Infect Dis 2015; 15(1): 210.

Dobler CC. Biological agents and tuberculosis: risk estimates and screening strategies. Int J Rheum Dis 2015; 18(3): 264-267.

Mason, P.H., Degeling, C., Denholm, J. (2015) Sociocultural dimensions of tuberculosis: an overview of key concepts, International Journal of Tuberculosis and Lung Disease, 19(10), pp. 1135-1143, doi: <http://dx.doi.org/10.5588/ijtld.15.0066>.

Mason, P.H., Roy, A., Spillane, J., Singh, P. (2015) Social, Historical & Cultural Dimensions of Tuberculosis, Journal of Biosocial Science, DOI: 10.1017/S0021932015000115

Mason, P.H., Domínguez D., J.F., Winter, B., Grignolio, A. (2015) Hidden in plain view: degeneracy in complex systems. *BioSystems*, 128, 1-8.
doi:10.1016/j.biosystems.2014.12.003

Mason, P.H. (2015) Degeneracy: Demystifying and destigmatizing a core concept in systems biology. *Complexity*, 20(3), 12-21. doi: 10.1002/cplx.21534

Denholm JT. Ethics, tuberculosis and compassion: lessons from praxis. *Journal of Bioethical Inquiry*, accepted December 2015.

Andrew E, Gibney K, Denholm JT, Leder K. Seroprotection to vaccine-preventable diseases among workers at a Victorian tertiary hospital. *ANZJPH*, accepted November 2015.

Trauer, JM, Moyo N, Tay EL, Dale K, Ragonnet R, McBryde ES, Denholm JT. Risk of Active Tuberculosis in the Five Years following Infection . . . 15%? *Chest*, accepted November 2015.

Globan M, Lavender CJ, Leslie D, Brown LK, Denholm JT, Raios K, Sievers A, Kelly H, Fyfe JAM. Molecular epidemiology of tuberculosis in Victoria, Australia, reveals low level of transmission. *Int J TB Lung Dis*, accepted November 2015.

Dale K, Tay EL, Trevan P, Denholm JT. Mortality among tuberculosis cases in Victoria, 2002-2013; case fatality and factors associated with death. *Int J TB Lung Dis*, accepted October 2015.

Trauer JM, Denholm JT, Waseem S, Ragonnet R, McBryde ES. Scenario Analysis for Programmatic Tuberculosis Control in Western Province, Papua New Guinea. *American Journal of Epidemiology*, accepted October 2015.

Ragonnet R, Trauer JM, Denholm JT, Geard N, Hellard M, McBryde ES. Vaccination programs for endemic infections: modelling real versus apparent impacts of vaccine and infection characteristics. *Scientific Reports*, 5, Article number 15468 (2015.)
doi:10.1038/srep15468

Denholm JT. Assessing risk of tuberculosis in international travellers: progress and new challenges. *Journal of Travel Medicine*, In press September 2015.

Meumann E, McNally A, Globan M, Fyfe J, Leslie D, Porter JL, Seeman T, Denholm JT, Stinear T. Genome sequence comparisons of serial multi-drug resistant *Mycobacterium tuberculosis* isolates over 21 years of infection in a single patient. *Microbial Genomics*, 2015;1. doi: 10.1099/mgen.0.000037

Clifford V, Tebruegge M, Zufferey C, Germano S, Denholm JT, Street A, McBryde ES, Eisen DP, Curtis N. Serum IP-10 in the diagnosis of latent and active tuberculosis. *Journal of Infection*, 2015;71(6):696.

Moyo N, Tay E, Denholm JT. Evaluation of tuberculin skin testing in Tuberculosis contacts in Victoria, Australia from 2005 to 2013. *Public Health Action*, 2015;5(3):188-193

Getahun H, Matteelli A, Abubakar I....Denholm JT.... Raviglione M. Management of latent *Mycobacterium tuberculosis* infection: WHO guidelines for low-tuberculosis incidence countries. *Euro Resp J*, in press September 2015. DOI: 10.1183/13993003.01245-2015

Goebel K, Tay EL, Denholm JT. Supplemental use of an interferon-gamma release assay in a State-wide contact tracing program: a six-year review. *Comm Dis Int*, 2015;39(2):E191-6

Clifford V, Zufferey C, Ryan N, Denholm JT, Germano S, Street A, Tebruegge M, Curtis N. The impact of anti-tuberculous antibiotics and corticosteroids on cytokine production in QuantiFERON-TB Gold In Tube assays. *Tuberculosis*, 2015;95(3):217-228.

Clifford V, Zufferey C, Street A, Denholm JT, Tebruegge M, Curtis N. Cytokines for monitoring anti-tuberculous therapy: a systematic review. *Tuberculosis*, 2015;95(3):217-228.

Denholm JT, Matteelli A, Reis A. Latent tuberculosis infection: ethical considerations in formulating public health policy. *Int J TB Lung Dis*, 2015;19(2):137-140

Sidibe A, Matteelli A, Menzies R, Getahun H. "Differences in BCG vaccination and tuberculin skin-test positivity." *Lancet Infect Dis*. 2015 Sep;15(9):1003. Doi: 10.1016/S1473-3099(15)00233-9.

Lee SH, Kim HJ, Park SJ, Kim TH, Park SJ, Kang SW, Kim YH, Menzies D. "Serial interferon-gamma release assays for latent tuberculosis in dialysis patients with end stage renal disease in a Korean population." *BMC Infect Dis*. 2015 Sep 21;15:381. Doi:10.1186/s12879-015-1117-3.

Winters N, Butler-Laporte G, Menzies D. "Efficacy and safety of World Health Organization group 5 drugs for multidrug-resistant tuberculosis treatment." *Eur Respir J*. 2015 Nov;46(5):1461-70. Doi: 10.1183/13993003.00649-2015. Epub 2015 Sep 17. Review.

Lee RS, Radomski N, Proulx JF, Levade I, Shapiro BJ, McIntosh F, Soualhine H, Menzies D, Behr MA. "Population genomics of *Mycobacterium tuberculosis* in the Inuit." *Proc Natl Acad Sci U S A*. 2015 Nov 3;112(44):13609-14. Doi:10.1073/pnas.1507071112. Epub 2015 Oct 19.

Getahun H, Matteelli A, Abubakar I, Aziz MA, Baddeley A, Barreira D, Den Boon S, Borroto Gutierrez SM, Bruchfeld J, Burhan E, Cavalcante S, Cedillos R, Chaisson R, Chee CB, Chesire L, Corbett E, Dara M, Denholm J, de Vries G, Falzon D, Ford N, Gale-Rowe M, Gilpin C, Girardi E, Go UY, Govindasamy D, D Grant A, Grzemska M, Harris R, Horsburgh CR Jr, Ismayilov A, Jaramillo E, Kik S, Kranzer K, Lienhardt C, LoBue P, Lönnroth K, Marks G, Menzies D, Migliori GB, Mosca D, Mukadi YD, Mwinga A, Nelson L, Nishikiori N, Oordt-Speets A, Rangaka MX, Reis A, Rotz L, Sandgren A, Sañé Schepisi M, Schünemann HJ, Sharma SK, Sotgiu G, Stagg HR, Sterling TR, Tayeb T, Uplekar M, van der Werf MJ, Vandavelde W, van Kessel F, van't Hoog A, Varma JK, Vezhnina N, Voniatis C, Vonk Noordegraaf-Schouten M, Weil D, Weyer K, Wilkinson RJ, Yoshiyama T, Zellweger JP, Raviglione M. "Management of latent *Mycobacterium tuberculosis* infection: WHO

guidelines for low tuberculosis burden countries." *Eur Respir J*. 2015 Dec; 46(6):1563-76. Doi:10.1183/13993003.01245-2015. Epub 2015 Sep 24.

Oxlade O, Piatek A, Vincent C, Menzies D. "Modeling the impact of tuberculosis interventions on epidemiologic outcomes and health system costs." *BMC Public Health*. 2015 Feb 13;15:141. Doi: 10.1186/s12889-015-1480-47

Menzies D. "Finishing what they started: when do researchers' responsibilities end?" *Am J Respir Crit Care Med*. 2015 May 1;191(9):977-8. Doi: 10.1164/rccm.201502-0409ED.

Bauer M, Ahmed S, Benedetti A, Greenaway C, Lalli M, Leavens A, Menzies D, Vadeboncoeur C, Vissandjée B, Wynne A, Schwartzman K. "Health-related quality of life and tuberculosis: a longitudinal cohort study." *Health Qual Life Outcomes*. 2015 May 27;13:65. Doi: 10.1186/s12955-015-0250-4.

Bauer M, Ahmed S, Benedetti A, Greenaway C, Lalli M, Leavens A, Menzies D, Vadeboncoeur C, Vissandjée B, Wynne A, Schwartzman K. "The impact of tuberculosis on health utility: a longitudinal cohort study." *Qual Life Res*. 2015 Jun;24(6):1337-49. Doi: 10.1007/s11136-014-0858-6. Epub 2014 Nov 13.

Detjen AK, DiNardo AR, Leyden J, Steingart KR, Menzies D, Schiller I, Dendukuri N, Mandalakas AM. "Xpert MTB/RIF assay for diagnosis of pulmonary tuberculosis in children: a systematic review and meta-analysis." *Lancet Respir Med*. 2015 Jun; 3(6):451-61. Doi: 10.1016/S2213-2600(15)00095-8. Epub 2015 Mar 24. Review

Lee RS, Radomski N, Proulx JF, Manry J, McIntosh F, Desjardins F, Soualhine H, Domenech P, Reed MB, Menzies D, Behr MA. "Reemergence and amplification of tuberculosis in the Canadian arctic." *J Infect Dis*. 2015 Jun 15;211(12):1905-14. Doi: 10.1093/infdis/jiv011. Epub 2015 Jan 9.

Satyanarayana S, Subbaraman R, Shete P, Gore G, Das J, Cattamanchi A, Mayer K, Menzies D, Harries AD, Hopewell P, Pai M. "Quality of tuberculosis care in India: a systematic review." *Int J Tuberc Lung Dis*. 2015 Jul;19(7):751-63. Doi: 10.5588/itld.15.0186. Review.

Clifford V, He Y, Zufferey C, Connell T, Curtis N. Interferon gamma release assays for monitoring the response to treatment for tuberculosis: A systematic review. *Tuberculosis (Edinb)*. 2015 Dec;95(6):639-50. doi: 10.1016/j.tube.2015.07.002. Epub 2015 Jul 30. Review.

Clifford V, Tebruegge M, Zufferey C, Germano S, Denholm J, Street A, McBryde E, Eisen D, Curtis N. Serum IP-10 in the diagnosis of latent and active tuberculosis. *J Infect*. 2015 Dec;71(6):696-8. doi: 10.1016/j.jinf.2015.08.001. Epub 2015 Aug 10.

Tebruegge M, Ritz N, Curtis N, Shingadia D. Diagnostic Tests for Childhood Tuberculosis: Past Imperfect, Present Tense and Future Perfect? *Pediatr Infect Dis J*. 2015 Sep;34(9):1014-9. doi: 10.1097/INF.0000000000000796.

Tebruegge M, Dutta B, Donath S, Ritz N, Forbes B, Camacho-Badilla K, Clifford V, Zufferey C, Robins-Browne R, Hanekom W, Graham SM, Connell T, Curtis N. Mycobacteria-Specific Cytokine Responses Detect Tuberculosis Infection and Distinguish Latent from Active Tuberculosis. *Am J Respir Crit Care Med*. 2015 Aug 15;192(4):485-99. doi: 10.1164/rccm.201501-00590C.

Clifford V, Tebruegge M, Curtis N. Limitations of current tuberculosis screening tests in immunosuppressed patients. *BMJ*. 2015 Apr 28;350:h2226. doi: 10.1136/bmj.h2226.

Clifford V, Zufferey C, Germano S, Ryan N, Leslie D, Street A, Denholm J, Tebruegge M, Curtis N. The impact of anti-tuberculous antibiotics and corticosteroids on cytokine production in QuantiFERON-TB Gold In Tube assays. *Tuberculosis (Edinb)*. 2015 May;95(3):343-9. doi: 10.1016/j.tube.2015.02.039. Epub 2015 Feb 14.

Clifford V, Zufferey C, Street A, Denholm J, Tebruegge M, Curtis N. Cytokines for monitoring anti-tuberculous therapy: A systematic review. *Tuberculosis (Edinb)*. 2015 May;95(3):217-28. doi: 10.1016/j.tube.2015.01.003. Epub 2015 Jan 30. Review.

Freyne B, Marchant A, Curtis N. BCG-associated heterologous immunity, a historical perspective: intervention studies in animal models of infectious diseases. *Trans R Soc*

Trop Med Hyg. 2015 Jan;109(1):52-61. doi: 10.1093/trstmh/tru197. Review. Erratum in: Trans R Soc Trop Med Hyg. 2015 Apr;109(4):287.

Freyne B, Marchant A, Curtis N. BCG-associated heterologous immunity, a historical perspective: experimental models and immunological mechanisms. Trans R Soc Trop Med Hyg. 2015 Jan;109(1):46-51. doi: 10.1093/trstmh/tru196. Review.

2014 Publications

TB-CRE Chief Investigator TB-related publications:

Bissell K, Viney K, Brostrom R, Gounder S, Graham S, Hill P, Khogali M, Kishore K, Kool B, Kumar AMV, Manzi M, Marais B, Marks G, Nguyen L, Ram S, Reid S, Roseveare C, Tayler-Smith K, van den Bergh R, Harries AD. Operational Research Capacity Building in the Pacific. Public Health Action 2014; 4 Suppl 1: S2-13

Harries AD, Marais B, Kool B, Ram S, Kumar AMV, Gounder S, Viney K, Brostrom R, Roseveare C, Bissell K, Reid T, Zachariah R, Hill PC. Mentorship for operational research capacity building: hands-on or hands-off? Public Health Action 2014; 4 Suppl 1: S56-58

Marais BJ. Tuberculosis in children. J Paed Child Health 2014; 50; 759-67

Portevin D, Moukambi F, Clowes P, Bauer A, Chachage M, Ntinginya NE, Mfinanga E, Said K, Haraka F, Rachow A, Saathoff E, Mpina M, Jugheli L, Lwilla F, Marais BJ, Hoelscher M, Daubenberger C, Reither K, Geldmacher C. Performance of the novel TAM-TB assay to diagnose active tuberculosis in children: a prospective, multi-centre study. Lancet Infect Dis 2014; 10: 931-8

Gurjav U, Jelfs P, Holmes N, Marais BJ, Sintchenko V. Temporal dynamics of prevalent M. tuberculosis genotypes in New South Wales, Australia. BMC Infect Dis 2014; 14: 455 (p1-8)

Solomons RS, Wessels M, Visser DH, Donald PR, Marais BJ, Schoeman JF, van Furth AM. Uniform research case definition criteria differentiate tuberculous and bacterial meningitis in children. *Clin Infect Dis* 2014; 59: 1574-8

Hill PC, Dye C, Viney K, Tabutoa K, Bissell K, Williams BG, Rony Zachariah R, Brostrom R, Marais BJ, Harries AD. Mass treatment to eliminate tuberculosis – a neglected strategy. *Int J Tuberc Lung Dis* 2014; 18: 899-904

Tagaro M, Harries AD, Kool B, Ram S, Viney K, Marais B, Tarivonda L. Tuberculosis case burden and treatment outcomes in Vanuatu: reflecting the full age spectrum. *Public Health Action* 2014; 4 Suppl 1; S14-8

Matoto V, Viney K, Roseveare C, Colaguirri R, Vivili R, Marais BJ. Burden and spectrum of disease in people with diabetes in Tonga. *Public Health Action* 2014; 4 Suppl 1; S44-9

Fanai S, Viney K, Tarivonda L, Roseveare C, Tagaro M, Marais BJ. Profile of tuberculosis patients with delayed sputum smear conversion in the Pacific island of Vanuatu. *Public Health Action* 2014; 4 Suppl 1; S19-24

Morkel G, Bekker A, Marais BJ, Kirsten G, van Wyk J, Dramowski A. Bloodstream infections and antimicrobial resistance patterns in a South African neonatal intensive care unit. *Paediatr Int Child Health* 2014; 34: 108-14

Solomons RS, Elstrand SL, Visser DH, Hoek KGP, Marais BJ, Schoeman JF, van Furth AM. Commercial nucleic acid amplification tests in tuberculous meningitis – a meta-analysis. *Diagn Microbiol Infect Dis* 2014; 78: 398-403

Marais BJ, Graham SM. Childhood tuberculosis – a roadmap towards zero deaths. *J Paed Child Health* 2014; June 13 [Epub ahead of print]

Marais BJ. Urine lipoarabinomannan testing in children with tuberculosis. *Lancet Global Health* 2014; 2(5): e245–6

Marais BJ. Quantifying the tuberculosis disease burden in children. *Lancet* 2014; 383: 1530-1

Graham SM, Sismanidis C, Menzies HJ, Marais BJ, Detjen AK, Black RE. Importance of tuberculosis to address child survival. *Lancet* 2014; 383: 1605-7

Marais BJ, Schaaf HS, Graham SM. Child health and tuberculosis. *Lancet Resp Med* 2014; 2: 254-6

Majumdar SS, Marais BJ, Denholm J, Britton W. Drug-resistant tuberculosis: collaborative regional leadership required. *Med J Austr* 2014; 200: 241-2

Marais BJ, Tadolini M, Zignol M, Migliori GB. Paediatric TB – lessons from Denmark and inclusive strategies to consider. *Eur Resp J* 2014; 43: 678-84

Esposito S, D'Ambrosio L, Tadolini M, Schaaf HS, Caminero Luna J, Marais B, Centis R, Dara M, Matteelli A, Blasi F, Migliori GB. ERS/WHO Tuberculosis Consilium assistance with extensively drug-resistant tuberculosis management in a child: case study of compassionate delamanid use. *Eur Respir J* 2014; 44: 811-5

GJ Fox, DN Sy, NV Nhung, B Yu, MK Ellis, NV Hung, NK Cuong, LT Lien, GB Marks, BM Saunders, WJ Britton. 2014 Polymorphisms of SP110 1 are associated with both pulmonary and extra-pulmonary tuberculosis among the Vietnamese. *Plos One*. 9;9(7):e99496. Citations 2

TB-CRE Associate Investigator and Affiliates TB-related publications:

K Viney, P Johnson, M Tagaro, S Fanai, NN Linh, P Kelly, D Harley, A Sleight. Traditional healers and the potential for collaboration with the national tuberculosis programme in Vanuatu: results from a mixed methods study. *BMC Public Health*, 2014; 14 (393): doi:10.1186/1471-2458-14-393

Viney K, Puloka V, Tukuitonga C and Souares Y. *Burden of TB in the Pacific: Strategic planning and public health action. Commonwealth Health Partnerships 2014. Commonwealth Secretariat, London: United Kingdom, 2014.*

Hoy D, Kienene T, Reiher B, Roth A, Tiira T, McKenzie J, Merilles OEA, Viney K. Battling tuberculosis in an island context with a high burden of communicable and non-communicable diseases: epidemiology, progress and lessons learned in Kiribati, 2000 to 2012. *International Journal of Infectious Diseases*, 2014; <http://dx.doi.org/10.1016/j.ijid.2014.11.025>

Viney K, Brostrom R, Nasa J, Defang R, Kienene T. Diabetes and tuberculosis in the Pacific Islands region. *The Lancet Diabetes and Endocrinology*, 2014; 2(12):932.

Narayan N, Viney K, Varman S. Comparison of tuberculosis treatment outcomes by method of treatment supervision in Fiji Islands. *Public Health Action*, 2014; 4(3):174-178.

Prasad P, Viney K, Varman S, Gounder S. Sputum smear conversion and treatment outcomes for tuberculosis patients with and without diabetes mellitus in Fiji. *Public Health Action*, 2014; 4(3):159-163.

Falzon D, Mirzayev F, Wares F, Baena IG, Zignol M, Linh N, Weyer K, Jaramillo E, Floyd K, Raviglione M. Multidrug-resistant tuberculosis around the world: what progress has been made? *Eur Respir J*. 2014 Sep 26. pii: erj01018-2014. [Epub ahead of print]

Bissell K, Viney K, Brostrom R, Gounder S, Khogali M, Kishore K, Kool B, Kumar AMV, Manzi M, Marais B, Marks G, Linh NN, Ram S, Reid S, Roseveare C, Tayler-Smith K, Van

den Bergh R, Harries AD. Building Operational Research Capacity in the Pacific. Public Health Action. Volume 4, Supplement 1 - June 2014. PHA South Pacific OR Supplement.

Viney K, Johnson P, Tagaro M, Fanai S, Linh NN, Kelly P, Harley D and Sleigh A. Tuberculosis patients' knowledge and beliefs about tuberculosis: a mixed methods study from the Pacific Island nation of Vanuatu. BMC Public Health 2014, 14:467.

Viney K, Johnson P, Tagaro M, Fanai S, Linh NN, Kelly P, Harley D and Sleigh A. Traditional healers and the potential for collaboration with the national tuberculosis programme in Vanuatu: results from a mixed methods study. BMC Public Health 2014, 14:393. doi:10.1186/1471-2458-14-393.

Tamani T, Bissell K, Tayler-Smith K, Gounder S, Linh NN, Graham SM. The trend of tuberculosis cases over 60 years in Fiji's largest treatment centre: 1950-2010. Public Health Action. Volume 4, Number 1 - March 2014.

Itogo N, Hill P, Bissell K, Harries AD, Viney K, Gounder S. Tuberculosis incidence, case characteristics and treatment outcomes: urban versus rural in Solomon Islands. Public Health Action. 2014; 4(1): S25-S28.

Viney K, Johnson P, Tagaro M, Fanai S, Nguyen NL, Kelly P, Harley, D and Sleigh, A. Tuberculosis patients' knowledge and beliefs about tuberculosis: a mixed methods study from the Pacific Island nation of Vanuatu. BMC Public Health, 2014; 14(467): doi:10.1186/1471-2458-14-467.

Sohn H, Denking C, Behr M, McIntosh F, Menzies D, Schwartzman K, Pai M. "Xpert MTB/RIF testing in a low TB incidence, high-resource setting: limitations in accuracy and clinical impact," Clin Infect Dis. 2014 Apr;58(7):970-6. Doi: 10.1093/cid/ciu022. Epub 2014 Jan 14.

*Ahmad Khan F, Menzies D. "Looking for TB in the sky: money well spent?" Travel Medicine and Infectious Disease. 2014 Jan-Feb;12(1):3-4. Doi: 10.1016/j.tmaid.2013.12.001. Epub 2013 Dec 17.

*Bastos ML, Hussain H, Weyer K, Garcia-Garcia L, Leimane V, Leung CC, Narita M, Peña JM, Ponce-de-Leon A, Seung KJ, Shean K, Sifuentes-Osornio J, Van der Walt M, Van der Werf TS, Yew WW, Menzies D, and the Collaborative Group for Meta-Analysis of Individual Patient Data in MDR-TB (corresponding author). "Treatment outcomes of patients with multidrug- and extensive drug-resistant tuberculosis according to drug susceptibility testing to first- and second-line drugs: an individual patient data meta-analysis." *Clin Inf Dis*. 2014 Nov 15;59(10):1364-74. Doi: 10.1093/cid/ciu619. Epub 2014 Aug 5.

Menzies D, Sterling T. "Treatment of M Tuberculosis Infection – time to get a move on." *Annals Int Med*, 2014 Sep 16;161(6):449-50. Doi: 10.7326/M14-1719.

Bhargava A, Benedetti A, Oxlade O, Pai M, Menzies D. "Under-nutrition and the incidence of tuberculosis in India: National and subnational estimates of the population attributable fraction related to under-nutrition" *Natl Med J India*, 2014; 27(3):128-33.

*Li J, Menzies D, Landry JS, Benedetti A, Rousseau MC. "Determinants of Bacillus Calmette–Guérin (BCG) vaccination among Québec children". *Preventive Medicine*, 2014; 66: 87–94. Doi: 10.1016/j.ypmed.2014.06.012. Epub 2014 Jun 16.

Lange C, Abubakar I, Alffenaar JW, Bothamley G, Caminero JA, Carvalho AC, Chang KC, Codecasa L, Correia A, Crudu V, Davies P, Dedicoat M, Drobniewski F, Duarte R, Ehlers C, Erkens C, Goletti D, Günther G, Ibraim E, Kampmann B, Kuksa L, de Lange W, van Leth F, van Lunzen J, Matteelli A, Menzies D, Monedero I, Richter E, Rüsç-Gerdes S, Sandgren A, Scardigli A, Skrahina A, Tortoli E, Volchenkov G, Wagner D, van der Werf MJ, Williams B, Yew WW, Zellweger JP, Cirillo DM; TBNET. "Management of patients with multidrug-resistant/extensively drug-resistant tuberculosis in Europe: a TBNET consensus statement." *Eur Respir J*. 2014 Jul;44(1):23-63. Doi: 10.1183/09031936.00188313. Epub 201 Mar 23.

Lee SJ, Lee SH, Kim YE, Cho YJ, Jeong YY, Kim HC, Lee JD, Kim JR, Hwang YS, Kim HJ, Menzies D. "Risk factors for latent tuberculosis infection in close contacts of active tuberculosis patients in South Korea: a prospective cohort study." *BMC Infect Dis*. 2014 Nov 18;14:566. Doi: 10.1186/s12879-014-0566-4.

Rubinowicz A, Bartlett G, MacGibbon B, Greenaway C, Ronald L, Munoz M, Menzies D. "Evaluating the role of primary care physicians in the treatment of latent tuberculosis: a

population study." *Int J Tuberc Lung Dis*. 2014 Dec; 18(12):1449-54. Doi: 10.5588/ijtld.14.0166.

Ritz N, Curtis N. Novel concepts in the epidemiology, diagnosis and prevention of childhood tuberculosis. *Swiss Med Wkly*. 2014 Sep 10;144:w14000. doi: 10.4414/smw.2014.14000. eCollection 2014. Review.

Gwee A, Rodrigo R, Casalaz D, Ritz N, Curtis N. Infants born in Australia to mothers from countries with a high prevalence of tuberculosis: to BCG or not to BCG? In reply. *Med J Aust*. 2014 Feb 17;200(3):149-50.

2013 Publications

Abubakar I, Ford N, Cox H, Masham S, Lawn SD, Marais B, Mchugh T, McNerney R, Sarda K, Mwaba P, Bates M, Migliori GB, Memish Z, Payam N, Logan S, Kim P, Hafner R, Cole S, Maeurer M, Schito M, Zumla A. "The rising tide of drug-resistant tuberculosis – time for visionary leadership". *Lancet Infect Dis* 2013; In press

Adetifa IMO, Ota MOC, Jeffries DJ, Lugos MD, Hammond A, Battersby N, Owiafe P, Donkor S, Antonio M, Ibang HB, Brookes R, Aka P, Walton R, Adegbola RA, Hill PC. Interferon gamma ELISPOT as a "Biomarker of Treatment Efficacy in Latent Tuberculosis Infection: a Clinical Trial". *Am J Resp Crit Care Med* 2013; (In press).

Britton P, Perez-Velez CM, Marais B. "Modern diagnostics and management of tuberculosis in children." *NSW Public Health Bulletin* 2013; In press

Ho J, Marais B, Ralph A, Gilbert G. "Diagnosing Tuberculous Meningitis – Have We Made Any Progress?" *Trop Med Int Health* 2013:

Lawn SD, Mwaba P, Bates M, Piatek A, Alexander H, Marais BJ, Cuevas LE, Mchugh T, Zinejah L, Hoelscher M, Memish Z, McNerney R, Migliori GB, Abubakar I, Hafner R, Kim P, Maeurer M, Schito M, Zumla A. "Advances in diagnostic assays for tuberculosis: The Xpert MTB/RIF assay and future prospects for a point-of-care test." *Lancet Infect Dis* 2013; In press

Marais B, Lönnroth K, Lawn S, Migliori GB, Mwaba P, Glaziou P, Colagiuri R, Bates M, Zijenah L, Swaminathan S, Memish Z, Pletschette M, Hoelscher M, Abubakar I, Hasan R, Zafar A, Pantaleo G, Craig G, Kim P, Maeurer M, Schito M, Zumla A. "Tuberculosis co-morbidity with communicable and non-communicable diseases: integrating health services and control efforts." *Lancet Infect Dis* 2013; In press

Marais BJ, Graham S, Maeurer M, Zumla A. "Progress, challenges and concepts from childhood tuberculosis." *Lancet Infect Dis* 2013; In press

Marais BJ. "Childhood tuberculosis updates." In press

Marais BJ. "Update on childhood tuberculosis." *Pulmao RJ (Rio de Janeiro Lung)* 2013: In press

Ralph AP, Lucas RM, Norval. "Vitamin D and solar ultraviolet radiation in the risk and treatment of tuberculosis." *Lancet Infect Dis* 2013;13:77-88

Ralph AP, Yeo TW, Salome CM, Waramori G, Pontororing GJ, Kenangalem E, Sandjaja, Tjitra E, Lumb R, Maguire GP, Price RN, Chatfield MD, Kelly PM, Anstey NM, Ralph AP. "Impaired pulmonary nitric oxide bioavailability in pulmonary tuberculosis: association with disease severity and delayed mycobacterial clearance with treatment." *J Infect Dis*, accepted, Feb 2013.

Walters SB, Kieckbusch. J, Nagalingam, G, Swain, A., Latham, S. L., Grau, GER, Britton, W.J., Combes, V and Saunders, BM 2013. "Microparticles from Mycobacteria-Infected Macrophages Promote Inflammation and Cellular Migration." *Journal of Immunology*. 190:669-677.

Seddon J, Schaaf HS, Furin JF, Marais BJ, Tebruegge M, Detjen A, Hesselning AC, Perez-Velez CM, Shah S, Adams L, Starke JR, Becerra MC, Swaminathan S. "Consensus statement on research definitions for drug-resistant tuberculosis in children." *J Ped Infect Dis Soc* 2013; In press

Vanden Driessche K, Persson A, Marais BJ, Fink PJ, Urdahl KB. "Immune vulnerability of infants to tuberculosis." *Clin Developm Immunol* 2013; Submitted

2012 Publications

Al-Dabbagh M, van den Driessche K, Marais BJ, Kollmann TR. "Management of multidrug resistant tuberculosis in children". *Eur Infect Dis* 2012; 6: 35-40

Blumenthal A, Nagalingam G, Huch J, Walker L, Guillemin GJ, Smythe GA, Ehrt S, Britton WJ & Saunders BM. "Potent activation of tryptophan metabolism by mycobacterium tuberculosis does not influence immunological control of the infection". *PloS One*, 2012, 7 e37314.

Cuevas LE, Ahmed T, Amanullah F, Browning R, Cardenas V, Casenghi M, Gale M, Graham SM, Gie RP, Grzemska M, Handelsman E, Hatherill M, Hesselning AC, Jean-Philippe P, Kampmann B, Kabra SK, Lienhardt C, Lighter-Fisher J, Madhi S, Makhene M, Marais BJ, McNeeley DF, Menzies H, Mitchell C, Modi S, Mofenson L, Musoke P, Nachman S, Powell C, Rigaud M, Rouzier V, Starke JR, Swaminathan S, Wingfield C. "Evaluation of TB diagnostics in children: Methodological issues for conducting and reporting research evaluations of TB diagnostics for intrathoracic tuberculosis in children". Consensus from an expert panel. *J Infect Dis* 2012; 205: S209-215

Egere U, Townend J, Roca A, Akinsanya A, Bojang A, Nsekpong D, Greenwood B, Adegbola RA, Hill PC. "Indirect effect of 7-valent pneumococcal conjugate vaccine on pneumococcal carriage in newborns in rural Gambia: a randomised controlled trial". PLoS One 2012; e49143.

Eur Resp Monogr 2012; 58: 84-94

Graham SM, Ahmed T, Amanullah F, Browning R, Cardenas V, Casenghi M, Cuevas LE, Gale M, Gie RP, Grzemska M, Handelsman E, Hatherill M, Hesselting AC, Jean-Philippe P, Kampmann B, Kabra SK, Lienhardt C, Lighter-Fisher J, Madhi S, Makhene M, Marais BJ, McNeeley DF, Menzies H, Mitchell C, Modi S, Mofenson L, Musoke P, Nachman S, Powell C, Rigaud M, Rouzier V, Starke JR, Swaminathan S, Wingfield C. "Evaluation of TB diagnostics in children: Proposed clinical case definitions for classification of intrathoracic tuberculosis disease. Consensus from an expert panel". J Infect Dis 2012; 205: 199-208

Hatherill M, Verver S, Mahomed H; "the Taskforce on Clinical Research Issues, Stop TB Partnership Working Group on TB Vaccines. Consensus Statement on Diagnostic End Points for Infant Tuberculosis Vaccine Trials". Clin Infect Dis. 2012; 54: 493-501

Jack S J, Kevanna OU, Chea M, Chhin L, Devenish R, Dunbar M, Eang C, Hou K, Ly S, Khin M, Preak S, Reach R, Talukder A, Tokmoh L, Leon de la Barra S, Hill PC, Herbison P, Gibson RS. "Effect of micronutrient sprinkles on reducing anaemia in young children in Cambodia: a cluster randomised effectiveness trial". Arch Ped Adol Med 2012; 166:842-50.

Kao, F. F., Mahmuda, S., Pinto, R., Triccas, J. A., West, N. P. and Britton, W. J. (2012). "The secreted lipoprotein, MPT83, of Mycobacterium tuberculosis is recognized during human tuberculosis and stimulates protective immunity in mice." PLoS One. 7:e34991.

MacKenzie G, Plumb ID, Sambou S, Saha D, Uchendu U, Akinsola B, Ikumapayi U, Baldeh I, Usuf E, Touray K, Jasseh M, Howie SR, Wattiaux A, Lee E, Knoll M, Levine OS, Greenwood BM, Adegbola RA, Hill PC. "Monitoring the introduction of pneumococcal conjugate vaccines into West Africa: Design and implementation of a population based surveillance system". PLoS Med 2012; 9: e1001161

Marais BJ, Schaaf HS, Menzies D. "Prevention of tuberculosis in areas of high incidence."

Marais BJ, Sorrel T, Britton W. "Drug-resistant tuberculosis in Papua New Guinea and the Torres Strait islands. The Conversation; November" 2012. <http://theconversation.edu.au/drug-resistant-tuberculosis-in-png-and-torres-strait-islands-10754>

McNerney R, Maeurer M, Weyer K, Marais B, Ford N, Casenghi M, Cox H, Lawn S, Memish Z, Grobusch M, Squire B, Chakaya J, Mchugh T, Migliori GB, Mwaba P, Zinejah L, Pletschette M, Swaminathan S, Kim P, Schito M, O'Grady J, Bates M, Schwanck S, Abubakar I, Atun R, Zumla A. "Tuberculosis Diagnostics and Biomarkers: needs, challenges, recent advances and opportunities". J Infect Dis 2012; 205: S147-58

Nambiar, J. K., Pinto, R., Aguilo, J. I., Takatsu, K, Martin, C., Britton, W. J., Triccas, J. A. (2012). "Protective immunity afforded by attenuated, PhoP-deficient Mycobacterium tuberculosis is associated with sustained generation of CD4+ T-cell memory". *Eur J Immunol.* 42: 385-92.

Ota MO, Roca A, Bottomley C, Hill PC, Egere U, Greenwood B, Adegbola RA. "Pneumococcal antibody concentrations in subjects from communities fully or partially vaccinated with a seven-valent pneumococcal conjugate vaccine". *PLoS One* 2012; e42997.

Perez-Velez CM, Marais BJ. "Tuberculosis in children". *N Engl J Med* 2012; 367: 348-61

Pinto, R, Leotta, L. Shanahan, E. R., West, N. P, Leyh, T. S., Britton, W. J And Triccas, J. A. (2012). "Host cell-induced components of the sulfate assimilation pathway are major protective antigens of Mycobacterium tuberculosis *Journal of Infectious Diseases*". 207:778-85.

Raviglione M, Marais B, Floyd K, Lönnroth K, Getahun H, Migliori GB, Harries AD, Nunn P, Lienhardt C, Graham S, Chakaya J, Weyer K, Cole S, Kaufmann SHE, Zumla A. "Scaling up of interventions to achieve global tuberculosis control: progress, new developments and update". *Lancet* 2012; 379: 1902-13

Raviglione M, Zumla A, Marais B, Horton H, Matsoaledi A. "Advancing a sustainable agenda for TB control and research". *Lancet* 2012; 379: 1077-1078

Roca A, Bottomley C, Hill PC, Bojang A, Egere U, Darboe O, Greenwood B, Adegbola RA. "The effect of age and vaccination with a pneumococcal conjugate vaccine on the density of nasopharyngeal carriage". *Clin Infect Dis* 2012; 55:816-24.

Rutherford ME, Hill PC, Maharani W, Apriani L, Sampurno H, van Crevel R, Ruslami N. "Risk factors for M. tuberculosis infection in Indonesian children living with a sputum smear positive case". *Int J Tub Lung Dis* 2012; (in press).

Rutherford ME, Hill PC, Triash R, Van Crevel R, Graham SM. "Preventive Therapy in children exposed to Mycobacterium tuberculosis: problems and solutions". *Tropical Medicine and International Health* 2012; (epub ahead of print).

Rutherford ME, Nataprawira M, Yulita I, Apriani L, Maharani W, van Crevel R, Hill PC, Alisjahbana B. "Quantiferon-In Tube assay versus tuberculin skin test in Indonesian children living with a tuberculosis case". *In J Tub Lung Dis* 2012 (epub ahead of print).

Rutherford ME, Ruslami R, Maharani W, Yulita I, Lovell S, van Crevel R, Alisjahbana B, Hill PC. "Adherence to isoniazid preventive therapy in Indonesian children: a quantitative and qualitative investigation". *BMC Res Notes* 2012; 6:7.

Seddon J, Hesseling AC, Marais BJ, Peloquin C, McIlleron H, Donald PR, Schaaf HS. "Paediatric use of second-line anti-tuberculosis agents: a review". *Tuberculosis* 2012; 92: 9-17

Thye T, Owusu-Dabo E, Vannberg FO, van Crevel R, Curtis J, Sahiratmadja E, Balabanova Y, Ehmen C, Muntau B, Ruge G, Sievertsen J, Gyapong J, Nikolayevskyy V, Hill PC, Sirugo G, Drobniowski F, van de Vosse E, Newport M, Alisjahbana B, Nejentsev S, Ottenhoff TH, Hill AV, Horstmann RD, Meyer CG. "Common variants at 11p13 are associated with susceptibility to tuberculosis". *Nature Genetics* 2012; 44:257-9..

Triccas J, Marais B. "New vaccines, drugs and diagnostics urgently needed to halt the spread of tuberculosis". Croakey blog; October 2012 <http://blogs.crikey.com.au/croakey/2012/11/08/new-vaccines-drugs-and-diagnostics-urgently-needed-to-halt-the-spread-of-tuberculosis/>

Velez Edwards DR, Tacconelli A, Wejse C, Hill PC, Morris GA, Edwards TL, Gilbert JR, Myers JL, Park YS, Stryjewski ME, Abbate E, Estevan R, Rabna P, Novelli G, Hamilton CD, Adegbola R, Ostergaard L, Williams SM, Scott WK, Sirugo G. "MCP1 SNPs and pulmonary tuberculosis in cohorts from West Africa, the USA and Argentina: lack of association or epistasis with IL12B polymorphisms". *PLoS One* 2012;7: e32275 .

Zumla A, Abubakar I, Raviglione M, Ditiu L, Hoelscher M, Mchugh TD, Squire SB, Cox H, Ford N, McNerney R, Marais B, Grobusch M, Lawn S, Migliori GB, Mwaba P, O'Grady J, Pletschette M, Ramsay A, Chakaya J, Schito M, Swaminathan S, Memish Z, Maeurer M, Atun R. "Drug resistant TB – current dilemmas, unanswered questions, challenges and priority needs." *J Infect Dis* 2012; 205: S228-40