

New Diagnostics Working Group E-news (Jan 2014)

New scientific articles

[Diagnostic accuracy of interferon gamma-induced protein 10 for tuberculosis: a meta-analysis.](#)

Guo SJ, Jia LQ, Hu QJ, Long HY, Pang CS, Wen FQ. Int J Clin Exp Med. Jan 2014

[GeneXpert MTB/RIF Version G4 for Identification of Rifampin-Resistant Tuberculosis in a Programmatic Setting.](#)

Osman M, Simpson JA, Caldwell J, Bosman M, Nicol MP. J Clin Microbiol. Feb 2014

[Point-of-Care System for Detection of Mycobacterium tuberculosis and Rifampin Resistance in Sputum Samples.](#)

Castan P, de Pablo A, Fernández-Romero N, Rubio JM, Cobb BD, Mingorance J, Toro C. J Clin Microbiol. 2014 Feb

[Variability of the QuantiFERON®-TB Gold In-Tube Test Using Automated and Manual Methods.](#)

Whitworth WC, Goodwin DJ, Racster L, West KB, Chuke SO, Daniels LJ, Campbell BH, Bohanon J, Jaffar AT, Drane W, Sjoberg PA, Mazurek GH. PLoS One. 2014 Jan

[Analysis of miRNA expression profiling in human macrophages responding to Mycobacterium infection: induction of the immune regulator miR-146a.](#)

Liu Z, Zhou G, Deng X, Yu Q, Hu Y, Sun H, Wang Z, Chen H, Jia C, Wang D. J Infect. 2014 Jan

[Gold nanoprobe for multi loci assessment of multi-drug resistant tuberculosis.](#)

Pedrosa P, Veigas B, Machado D, Couto I, Viveiros M, Baptista PV. Tuberculosis (Edinb). 2014 Jan

[Phylogenetic polymorphisms in antibiotic resistance genes of the Mycobacterium tuberculosis complex.](#)

Feuerriegel S, Köser CU, Niemann S. J Antimicrob Chemother. 2014 Jan

[A rapid fluorescence polarization-based method for genotypic detection of drug resistance in Mycobacterium tuberculosis.](#)

Sun Y, Li S, Zhou L, Zhou L, Zhong Q, Fang S, Chen T, Bi L, Mat WK, Zhao C, Xue H. Appl Microbiol Biotechnol. 2014 Jan

[Xpert® MTB/RIF assay for pulmonary tuberculosis and rifampicin resistance in adults](#)

Steingart KR, Schiller I, Horne DJ, Pai M, Boehme CC, Dendukuri N. Cochrane Database Syst Rev. 2014 Jan

[Point-of-care urine test for assessing adherence to isoniazid treatment for tuberculosis.](#)

Soobratty MR, Whitfield R, Subramaniam K, Grove G, Carver A, O'Donovan GV, Wu HH, Lee OY, Swaminathan R, Cope GF, Milburn HJ. Eur Respir J. 2014 Jan

[Evaluation of two line probe assays for rapid detection of Mycobacterium tuberculosis, tuberculosis drug resistance, and non-tuberculosis mycobacteria in HIV-infected TB suspects.](#)

Luetkemeyer AF, Kendall MA, Wu X, Lourenço MC, Jentsch U, Swindells S, Qasba SS, Sanchez J, Havlir DV, Grinzstejn B, Sanne IM, Firnhaber C. J Clin Microbiol. 2014 Jan

[Application of lipoarabinomannan antigen in tuberculosis diagnostics: current evidence.](#)

Sarkar P, Biswas D, Sindhvani G, Rawat J, Kotwal A, Kakati B. Postgrad Med J. 2014 Jan 15

[Performance of the MTBDRsl assay in Georgia.](#)

Tukvadze N, Bablishvili N, Apsindzelashvili R, Blumberg HM, Kempker RR. Int J Tuberc Lung Dis. 2014 Feb

[Second-line drug susceptibility breakpoints for Mycobacterium tuberculosis using the MODS assay.](#)

Trollip AP, Moore D, Coronel J, Caviedes L, Klages S, Victor T, Romancenco E, Crudu V, Ajbani K, Vineet VP, Rodrigues C, Jackson RL, Eisenach K, Garfein RS, Rodwell TC, Desmond E, Groessl EJ, Ganiats TG, Catanzaro A.
Int J Tuberc Lung Dis. 2014 Feb

[Evaluation of Xpert MTB/RIF for the diagnosis of tuberculous meningitis.](#)

Nhu NT, Heemskerk D, Thu do DA, Chau TT, Mai NT, Nghia HD, Loc PP, Ha DT, Merson L, Thinh TT, Day J, Chau Nv, Wolbers M, Farrar J, Caws M. J Clin Microbiol. 2014 Jan

[Nitrate reductase assay for rapid detection of isoniazid, rifampicin, ethambutol and streptomycin resistance in Mycobacterium tuberculosis: a systematic review and meta-analysis](#)

Coban AY, Deveci A, Sunter AT, Martin A. J Clin Microbiol. 2014 Jan

[Interferon-gamma immunospot assay of pleural effusion mononuclear cells for diagnosis of tuberculous pleurisy](#)

Liao M, Yang Q, Zhang J, Zhang M, Deng Q, Liu H, Graner MW, Kornfeld H, Zhou B, Chen X. Clin Vaccine Immunol. 2014 Jan

[Significant reduction in the rate of indeterminate results of QuantiFERON-TB Gold In-Tube test by shortening incubation delay](#)

Yun JW, Chung HS, Koh WJ, Chung DR, Kim YJ, Kang ES. J Clin Microbiol. 2014 Jan

Key Publications

[WHO Executive Board recommends post-2015 global TB strategy to Assembly](#)

- [Resolution developed by the Executive Board](#)
- [WHO report on the proposed post-2015 TB Strategy and targets \(as presented to the Executive Board\)](#)
- [Short summary of the proposed post-2015 TB Strategy and targets](#)

WHO

[Review of the National Tuberculosis Programme in the Republic of Moldova](#)

WHO Europe

[New report: Collaborative action on tuberculosis and alcohol abuse in Estonia](#)

WHO Europe

[TB Care I Annual Report Year 3](#)

TB Care I

Other Publications

[Spectinamides: a new class of semisynthetic antituberculosis agents that overcome native drug efflux.](#)

Lee RE, Hurdle JG, Liu J, Bruhn DF, Matt T, Scherman MS, Vaddady PK, Zheng Z, Qi J, Akbergenov R, Das S, Madhura DB, Rathi C, Trivedi A, Villellas C, Lee RB, Rakesh, Waidyarachchi SL, Sun D, McNeil MR, Ainsa JA, Boshoff HI, Gonzalez-Juarrero M, Meibohm B, Böttger EC, Lenaerts AJ. Nat Med. 2014 Jan

[Evolution and transmission of drug-resistant tuberculosis in a Russian population.](#)

Casali N, Nikolayevskyy V, Balabanova Y, Harris SR, Ignatyeva O, Kontsevaya I, Corander J, Bryant J, Parkhill J, Nejentsev S, Horstmann RD, Brown T, Drobniowski F. Nat Genet. 2014 Jan

[Encoded library technology as a source of hits for the discovery and lead optimization of a potent and selective class of bactericidal direct inhibitors of Mycobacterium tuberculosis InhA.](#)

Encinas L, O'Keefe H, Neu M, Remuñán MJ, Patel AM, Guardia A, Davie CP, Pérez-Macías N, Yang H, Convery MA, Messer JA, Pérez-Herrán E, Centrella PA, Alvarez-Gómez D, Clark MA, Huss S, O'Donovan GK, Ortega-Muro F, McDowell W, Castañeda P, Arico-Muendel CC, Pajk S, Rullás J, Angulo-Barturen I, Alvarez-Ruiz E, Mendoza-Losana A, Pages LB, Castro-Pichel J, Evindar G. J Med Chem. 2014 Jan

[Tuberculosis elimination: theory and practice in Europe](#)

D'Ambrosio L, Dara M, Tadolini M, Centis R, Sotgiu G, van der Werf MJ, Gaga M, Cirillo D, Spanevello A, Raviglione M, Blasi F, Migliori GB; on behalf of the European national programme representatives. Eur Respir J. 2014 Jan

[ERS/WHO Tuberculosis Consilium: reporting of the initial 10 cases](#)

D'Ambrosio L, Tadolini M, Dupasquier S, Tiberi S, Centis R, Dara M, Blasi F, Migliori GB. Eur Respir J. 2014 Jan

[Circulating Mycobacterium bovis Peptides and Host Response Proteins as Biomarkers for Unambiguous Detection of Subclinical Infection.](#)

Lamont EA, Janagama HK, Ribeiro-Lima J, Vulchanova L, Seth M, Yang M, Kurmi K, Waters WR, Thacker T, Sreevatsan S. J Clin Microbiol. 2014 Feb

[Infectious disease: New leads for resistant tuberculosis.](#)

Harrison C. Nat Rev Drug Discov Jan 2014

[Mozambique faces challenges in the fight against tuberculosis.](#)

García-Basteiro AL, López-Varela E, Manhiça I, Macete E, Alonso PL. Lancet. 2014 Jan

[Tuberculosis: progress and challenges in product development and delivery.](#)

Pai M, Dowdy D. Lancet Respir Med. 2014 Jan

[Long-term outcomes of patients with extensively drug-resistant tuberculosis in South Africa: a cohort study](#)

Pietersen E, Ignatius E, Streicher EM, Mastrapa B, Padanilam X, Pooran A, Badri M, Lesosky M, van Helden P, Sirgel FA, Warren R, Dheda K. Lancet. 2014 Jan 16.

[Sterilization of granulomas is common in active and latent tuberculosis despite within-host variability in bacterial killing](#)

Lin PL, Ford CB, Coleman MT, Myers AJ, Gawande R, Ioerger T, Sacchetti J, Fortune SM, Flynn JL. Nat Med. 2014 Jan

[Mycobacteria manipulate macrophage recruitment through coordinated use of membrane lipids](#)

Cambier CJ, Takaki KK, Larson RP, Hernandez RE, Tobin DM, Urdahl KB, Cosma CL, Ramakrishnan L. Nature. 2014 Jan

[Role of clofazimine in the treatment of multidrug-resistant tuberculosis: a retrospective observational cohort assessment](#)

Xu HB, Jiang RH, Tang SJ, Li L, Xiao HP. J Antimicrob Chemother. 2014 Jan

[Improving the health of the tuberculosis drug pipeline](#)

Burki T. The Lancet Inf Dis. 2014 Jan

[Tuberculosis drug discovery in the post-post-genomic era](#)

Lechartier B, Rybniker J, Zumla A, Cole ST. EMBO Mol Med. 2014 Jan

[Fluoroquinolone resistance in Mycobacterium tuberculosis. What have we learnt?](#)

Yew WW, Lange C. Int J Tuberc Lung Dis. 2014 Jan

News

[Tackling drug-resistant TB in London](#)

[TB: how many young children are wrongly diagnosed as disease-free?](#)

[When Tb research meets innovative ideas](#)