

New Diagnostics Working Group E-news
November 2014

New scientific articles

[A multi-centre feasibility study to assess External Quality Assessment panels for Xpert\(R\) MTB/RIF assay in South Africa.](#)

Scott L, Albert H, Gilpin C, Alexander H, Degruy K, Stevens W. J Clin Microbiol. 2014

[Automated liquid culture system misses isoniazid heteroresistance in Mycobacterium tuberculosis isolates with mutations in the promoter region of the inhA gene.](#)

Zhang Z, Lu J, Wang Y, Pang Y, Zhao Y. Eur J Clin Microbiol Infect Dis. 2014

[Genotypic susceptibility testing of Mycobacterium tuberculosis for Amikacin and Kanamycin resistance using a rapid Sloppy Molecular Beacon based assay identifies more cases of low level drug resistance than phenotypic Lowenstein-Jensen testing.](#)

Chakravorty S, Lee JS, Cho EJ, Roh SS, Smith LE, Lee J, Kim CT, Via LE, Cho SN, Barry CE 3rd, Alland D. J Clin Microbiol. 2014

[Mycobacterium tuberculosis Pyrazinamide Resistance Determinants: a Multicenter Study](#)

Miotto P, Cabibbe AM, Feuerriegel S, Casali N, Drobniowski F, Rodionova Y, Bakonyte D, Stakenas P, Pimkina E, Augustynowicz-Kopeć E, Degano M, Ambrosi A, Hoffner S, Mansjö M, Werngren J, Rüsç-Gerdes S, Niemann S, Cirillo DM. MBio. 2014

[Prospective Genotyping of Mycobacterium tuberculosis from Fresh Clinical Samples](#)

Bidovec-Stojkovič U, Seme K, Zolnir-Dovč M, Supply P. PLoS One. 2014

[Xpert MTB/RIF assay for diagnosis of pulmonary tuberculosis in children: a prospective, multi-centre evaluation.](#)

Reither DK, Manyama C, Clowes P, Rachow A, Mapamba D, Steiner A, Ross A, Mfinanga E, Sasamalo M, Nsubuga M, Aloï F, Cirillo D, Jugheli L, Lwilla F. J Infect. 2014

[Point-of-care diagnostics, a major opportunity for change in traditional diagnostic approaches: potential and limitations.](#)

McPartlin DA, O'Kennedy RJ. Expert Rev Mol Diagn. 2014

[Serum interleukin 6 \(IL-6\) as a potential biomarker of disease progression in active pulmonary tuberculosis following anti-tuberculosis drug therapy.](#)

Chowdhury IH, Choudhuri S, Sen A, Bhattacharya B, Ahmed AM, Hazra A, Pal NK, Bahar B. Mol Immunol. 2014

[False-positive rifampicin resistance on Xpert® MTB/RIF caused by a silent mutation in the rpoB gene.](#)

Mathys V, van de Vyvere M, de Droogh E, Soetaert K, Groenen G. Int J Tuberc Lung Dis. 2014

[Role of pre-Xpert® screening using chest X-ray in early diagnosis of smear-negative pulmonary tuberculosis.](#)

Somashekar N, Chadha VK, Praseeja P, Sharada MA, Chandrakala GR, Srivastava R, Kumar P, Japananda S. Int J Tuberc Lung Dis. 2014

[Novel biomarkers for paediatric tuberculosis.](#)

Van Rie A, Moultrie H. Lancet Infect Dis. 2014

[Whole-genome sequencing of the Mycobacterium tuberculosis Manila sublineage results in less clustering and better resolution than mycobacterial interspersed repetitive-unit-variable-number tandem-repeat \(MIRU-VNTR\) typing and spoligotyping.](#)

Jamieson FB, Teatero S, Guthrie JL, Neemuchwala A, Fittipaldi N, Mehaffy C. J Clin Microbiol. 2014

[The Combined Use of M. tuberculosis-specific CD4 and CD8 T-Cell Responses Is a Powerful Diagnostic Tool of Active Tuberculosis.](#)

Rozot V, Patrizia A, Vigano S, Mazza-Stalder J, Idrizi E, Day CL, Perreau M, Lazor-Blanchet C, Ohmiti K, Goletti D, Bart PA, Hanekom W, Scriba TJ, Nicod L, Pantaleo G, Harari A. Clin Infect Dis. 2014

[How is Xpert MTB/RIF being implemented in 22 high tuberculosis burden countries?](#)

Qin ZZ, Pai M, Van Gemert W, Sahu S, Ghiasi M, Creswell J. Eur Respir J. 2014 Oct

[False-negative interferon- \$\gamma\$ release assay results in active tuberculosis: a TBNET study.](#)

de Visser V, Sotgiu G, Lange C, Aabye MG, Bakker M, Bartalesi F, Brat K, Chee CB, Dheda K, Dominguez J, Eyuboglu F, Ghanem M, Goletti D, Dilektasli AG, Guglielmetti L, Koh WJ, Latorre I, Losi M, Polanova M, Ravn P, Ringshausen FC, Rumetshofer R, de Souza-Galvão ML, Thijsen S, Bothamley G, Bossink A; for the TBNET. Eur Respir J. 2014

[The diagnostic accuracy of the GenoType\(®\) MTBDRsl assay for the detection of resistance to second-line anti-tuberculosis drugs.](#)

Theron G, Peter J, Richardson M, Barnard M, Donegan S, Warren R, Steingart KR, Dheda K. Cochrane Database Syst Rev. 2014

Key Publications

[Global Tuberculosis Report 2014](#)

[GLI training package on Xpert MTB/RIF](#)

[High-priority target product profiles for TB diagnostics](#)

Other Publications

[Shortening treatment for tuberculosis--to basics.](#)

Warner DF, Mizrahi V. N Engl J Med. 2014

[The novel tuberculosis vaccine, AERAS-402, is safe in healthy infants previously vaccinated with BCG, and induces dose-dependent CD4 and CD8T cell responses.](#)

Kagina BM, Tameris MD, Geldenhuys H, Hatherill M, Abel B, Hussey GD, Scriba TJ, Mahomed H, Sadoff JC, Hanekom WA; 018-402 Clinical Lab study team; 018-402 Clinical Lab study team. Vaccine. 2014

[Successful '9-month Bangladesh regimen' for multidrug-resistant tuberculosis among over 500 consecutive patients.](#)

Aung KJ, Van Deun A, Declercq E, Sarker MR, Das PK, Hossain MA, Rieder HL. Int J Tuberc Lung Dis. 2014

[Short-course Bangladesh regimen for multidrug-resistant tuberculosis: a step in the right direction?](#)

Laloo UG. Int J Tuberc Lung Dis. 2014

News

[Global epidemic of diabetes threatens progress in TB control](#)

[Reflecting on the WHO global TB report 2014](#)