



New Diagnostics Working Group

New Diagnostics Working Group E-news (May 2014)

New scientific articles

[Rapid detection of isoniazid resistance in Mycobacterium tuberculosis isolates by use of real-time-PCR-based melting curve analysis.](#)

Hu S, Li G, Li H, Liu X, Niu J, Quan S, Wang F, Wen H, Xu Y, Li Q. J Clin Microbiol. 2014 May

[Use of mycobacteriophage quantitative PCR on MGIT broths for a rapid tuberculosisantibiogram](#)

Foongladda S, Klayut W, Chinli R, Pholwat S, Houpt ER. J Clin Microbiol. 2014 May

[Rolling circle amplification for direct detection of rpoB gene mutations in Mycobacterium tuberculosis isolates from clinical specimens](#)

Chen X, Wang B, Yang W, Kong F, Li C, Sun Z, Jelfs P, Gilbert GL. J Clin Microbiol. 2014 May

[Real-time PCR assay for rapid detection of epidemiologically and clinically significant Mycobacterium tuberculosis Beijing genotype isolates.](#)

Mokrousov I, Vyazovaya A, Zhuravlev V, Otten T, Millet J, Jiao WW, Shen AD, Rastogi N, Vishnevsky B, Narvskaya O. J Clin Microbiol. 2014 May

[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 May

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

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

[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 May

[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 May

[Rapid diagnosis of pyrazinamide-resistant MDR-TB using a molecular-based diagnostic Algorithm.](#)

Simons SO, van der Laan T, Mulder A, van Ingen J, Rigouts L, Dekhuijzen PN, Boeree MJ, van Soolingen D. Clin Microbiol Infect. 2014 May

[Whole-genome sequencing to detect recent transmission of Mycobacteriumtuberculosis in settings with a high burden of tuberculosis.](#)

Luo T, Yang C, Peng Y, Lu L, Sun G, Wu J, Jin X, Hong J, Li F, Mei J, DeRiemer K, Gao Q. Tuberculosis (Edinb). 2014 May

[The Molecular Bacterial Load Assay replaces solid culture for measuring early bactericidal response to anti-tuberculosis treatment.](#)

Honeyborne I, Mtafya B, Phillips PP, Hoelscher M, Ntinginya EN, Kohlenberg A, Rachow A, Rojas-Ponce G, McHugh TD, Heinrich N; On behalf of the Pan African Consortium for the Evaluation of Anti-tuberculosis Antibiotics (PanACEA). J Clin Microbiol. 2014 May

[The association between pncA gene mutations, pyrazinamidase activity, and pyrazinamide susceptibility testing in Mycobacterium tuberculosis.](#)

Aono A, Chikamatsu K, Yamada H, Kato T, Mitarai S. Antimicrob Agents Chemother. 2014 May

[Real time PCR quantification of viable Mycobacterium tuberculosis from sputum samples treated with propidium monoazide.](#)

de Assunção TM, Batista EL Jr, Deves C, Villela AD, Pagnussatti VE, de Oliveira Dias AC, Kritski A, Rodrigues-Junior V, Basso LA, Santos DS. Tuberculosis (Edinb). 2014 May

[Microfluidic Platform for Direct Capture and Analysis of Airborne Mycobacterium tuberculosis.](#)

Jing W, Jiang X, Zhao W, Liu S, Cheng X, Sui G. Anal Chem. 2014 May

[Detection of mutations associated with isoniazid resistance in multidrug-resistant Mycobacterium tuberculosis clinical isolates.](#)

Jagielski T, Bakula Z, Roeske K, Kamiński M, Napiórkowska A, Augustynowicz-Kopeć E, Zwolska Z, Bielecki J. J Antimicrob Chemother. 2014 May

[Diagnostic accuracy of the PURE-LAMP test for pulmonary tuberculosis at the county-level laboratory in China.](#)

Ou X, Li Q, Xia H, Pang Y, Wang S, Zhao B, Song Y, Zhou Y, Zheng Y, Zhang Z, Zhang Z, Li J, Dong H, Zhang J, Kam KM, Chi J, Huan S, Chin DP, Zhao Y. PLoS One. 2014 May

[Challenges and perspectives in the diagnosis of extrapulmonary tuberculosis.](#)

Norbis L, Alagna R, Tortoli E, Codecasa LR, Migliori GB, Cirillo DM. Expert Rev Anti Infect Ther. 2014 May

[In house reverse membrane hybridisation assay versus GenoType MTBDRplus and their performance to detect mutations in the genes rpoB, katG and inhA.](#)

Ferreira Junior SL, Costa ER, Santos PG, Gomes HM, Silva MS, Esteves LS, Oliveira MM, Maschmann RD, Kritski AL, Suffys PN, Rossetti ML. Mem Inst Oswaldo Cruz. 2014 May

[A pseudo-outbreak of pre-XDR TB in Kinshasa: A Collateral Damage of False Fluoroquinolone Resistant Detection by GenoType® MTBDRsl.](#)

Kaswa MK, Aloni M, Nkuku L, Bakoko B, Lebeke R, Nzita A, Muyembe JJ, de Jong BC, de Rijk P, Verhaegen J, Boelaert M, Ieven M, Van Deun A. J Clin Microbiol. 2014 May

[Diagnostic accuracy of a molecular drug susceptibility testing method for the anti-tuberculosis drug, ethambutol: a systematic review and meta-analysis.](#)

Cheng S, Cui Z, Li Y, Hu Z. J Clin Microbiol. 2014

[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

Other Publications

[Transmission of multidrug-resistant tuberculosis in the UK: a cross-sectional molecular and epidemiological study of clustering and contact tracing.](#)

Anderson LF, Tamne S, Brown T, Watson JP, Mullarkey C, Zenner D, Abubakar

[Critical research concepts in tuberculosis vaccine development.](#)

Delogu G, Manganelli R, Brennan MJ. Clin Microbiol Infect. 2014 May

[Isoniazid plus antiretroviral therapy to prevent tuberculosis: a randomised double-blind, placebo-controlled trial.](#)
Rangaka MX, Wilkinson RJ, Boulle A, Glynn JR, Fielding K, van Cutsem G, Wilkinson KA, Goliath R, Mathee S, Goemaere E, Maartens G. Lancet. 2014 May

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

[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; European national programme representatives. Eur Respir J. 2014 May

[Is tuberculosis elimination a reality?](#)
Sotgiu G, Migliori GB. Lancet Infect Dis. 2014 May

Key Publications

[Factsheet: Global strategy and targets for tuberculosis prevention, care and control after 2015](#)
WHO Headquarters

[Draft global strategy and targets for tuberculosis prevention, care and control after 2015](#)
WHO Headquarters

[Standards and benchmarks for tuberculosis surveillance and vital registration systems: Checklist and user guide](#)
WHO Headquarters

[TB CARE I Year 4 Quarter 2 Report \(Jan 2014 - Mar 2014\)](#)
TB CARE I

[The GLI Newsletter "Momentum". Issue 2 - April 2014](#)
Global Laboratory Initiatives

News

[Childhood obesity and tuberculosis on agenda on first day of World Health Assembly](#)

[WHA approves post-2015 global TB strategy and targets](#)