



## New Diagnostics Working Group

New Diagnostics Working Group E-News  
January 2015

### News

[McGill Summer Institute in Infectious Diseases and Global Health – Registration Now Open!](#)

Deadline for applications: 28 February 2015

- 2<sup>nd</sup> TB Research Methods Course, July 6-10, 2015 [Course details](#)
- Global Health Diagnostics Course, July 6-10, 2015 [Course details](#)
- 5<sup>th</sup> Advanced Course in TB Diagnostic Research, July 13-17, 2015 [Course details](#)

### Resources of relevance

[High-priority target product profiles for new tuberculosis diagnostics: report of a consensus meeting. 2014](#)  
WHO

[Guidelines on the management of latent tuberculosis infection](#)  
WHO

[Tuberculosis diagnostics technology and market landscape – 3rd edition, 2014](#)  
UNITAID

[Market assessment of tuberculosis diagnostics in South Africa, 2012–2013.](#)  
TB Diagnostics Market Analysis Consortium (2015). Int J TB and Lung Dis 2015;19:216-22.

[Market Assessment of Tuberculosis Diagnostics in Brazil in 2012.](#)  
TB Diagnostics Market Analysis Consortium (2014), PLoS ONE 9(8): e104105.

[Replacing smear microscopy for the diagnosis of tuberculosis: what is the market potential?](#)  
Eur Respir J 2014; 43: 1793-1796.

### Scientific articles

[Genotypic Susceptibility Testing of Mycobacterium tuberculosis Isolates for Amikacin and Kanamycin Resistance by Use of 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. 2015 Jan

[Diagnostic Value of GeneChip for Detection of Resistant Mycobacterium tuberculosis in Patients with Differing Treatment Histories.](#)  
Zhu L, Liu Q, Martinez L, Shi J, Chen C, Shao Y, Zhong C, Song H, Li G, Ding X, Zhou Y, Zhu L, Whalen CC, Lu W. J Clin Microbiol. 2015 Jan

[False-negative interferon-γ 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; TBNET. Eur Respir J. 2015 Jan

[Optimization of a Nucleic Acid-Based Reporter System To Detect Mycobacterium tuberculosis Antibiotic Sensitivity.](#)

Mulvey MC, Lemmon M, Rotter S, Lees J, Einck L, Nacy CA. Antimicrob Agents Chemother. 2015 Jan

[Evaluation of the Cepheid Xpert MTB/RIF assay.](#)

Shinnick TM, Starks AM, Alexander HL, Castro KG. Expert Rev Mol Diagn. 2015 Jan

[Early diagnosis of pulmonary tuberculosis using serum biomarkers.](#)

Zhou J. Proteomics. 2015 Jan

[Measurement of phenotype and absolute number of circulating Heparin-binding hemagglutinin \(HBHA\), ESAT-6&CFP-10, and PPD antigen specific CD4 T cells can discriminate active from latent tuberculosis infection.](#)

Hutchinson P, Barkham TM, Tang W, Kemeny DM, Chee CB, Wang YT. Clin Vaccine Immunol. 2014 Dec

[Qualification of a whole blood intracellular cytokine staining assay to measure mycobacteria-specific CD4 and CD8 T cell immunity by flow cytometry.](#)

Kagina BM, Mansoor N, Kpamegan EP, Penn-Nicholson A, Nemes E, Smit E, Gelderbloem S, Soares AP, Abel B, Keyser A, Sidibana M, Hughes JE, Kaplan G, Hussey GD, Hanekom WA, Scriba TJ. J Immunol Methods. 2014 Dec

[Diagnostic accuracy of the Xpert MTB/RIF assay for extrapulmonary and pulmonary tuberculosis when testing non-respiratory samples: a systematic review.](#)

Maynard-Smith L, Larke N, Peters J, Lawn S. BMC Infect Dis. 2014 Dec

[The association of DST results for first- and second-line drugs with treatment outcomes in patients with MDR tuberculosis and XDR tuberculosis.](#)

Hong-Min W, Xiao-Hong Z. Clin Infect Dis. 2014 Dec

[Evaluation of the MeltPro TB/STR assay for rapid detection of streptomycin resistance in Mycobacterium tuberculosis.](#)

Zhang T, Hu S, Li G, Li H, Liu X, Niu J, Wang F, Wen H, Xu Y, Li Q. Tuberculosis (Edinb). 2014 Dec

[A new antibiotic kills pathogens without detectable resistance.](#)

Ling LL, Schneider T, Peoples AJ, Spoering AL, Engels I, Conlon BP, Mueller A, Schäberle TF, Hughes DE, Epstein S, Jones M, Lazarides L, Steadman VA, Cohen DR, Felix CR, Fetterman KA, Millett WP, Nitti AG, Zullo AM, Chen C, Lewis K. Nature. 2015 Jan

[Multidrug-resistant tuberculosis around the world: what progress has been made?](#)

Falzon D, Mirzayev F, Wares F, Baena IG, Zignol M, Linh N, Weyer K, Jaramillo E, Floyd K, Raviglione M. Eur Respir J. 2015 Jan

[Rifampicin and rifapentine significantly reduce concentrations of bedaquiline, a new anti-TB drug.](#)

Svensson EM, Murray S, Karlsson MO, Dooley KE. J Antimicrob Chemother. 2014 Dec

[Linezolid to treat MDR-/XDR-tuberculosis: available evidence and future scenarios.](#)

Sotgiu G, Pontali E, Migliori GB. Eur Respir J. 2015 Jan

[Low minimal inhibitory concentrations of linezolid against multidrug-resistant tuberculosis strains.](#)

Sotgiu G, Centis R, D'Ambrosio L, Castiglia P, Migliori GB. Eur Respir J. 2015 Jan

[Low minimal inhibitory concentrations of linezolid against multidrug-resistant tuberculosis strains.](#)

Weiss T, Schönfeld N, Otto-Knapp R, Bös L, Bettermann G, Mauch H, Bauer TT, Rüssmann H. Eur Respir J. 2015 Jan

## Other publications

[The WHO 2014 Global tuberculosis report-further to go.](#)

Zumla A, George A, Sharma V, Herbert RH; Baroness Masham of Ilton, Oxley A, Oliver M. Lancet Glob Health. 2015 Jan

[Tuberculosis post-2015: looking to the future with optimism.](#)

Burki T. Lancet Infect Dis. 2015 Jan

[Managing an extensively drug-resistant tuberculosis outbreak: the public health face of the medal.](#)

Codecasa LR, Ciconali G, Mazzola E, Ferrarese M, Cirillo D, Borroni E, Gesu GP, Zellweger JP, Centis R, Faccini M. Eur Respir J. 2015 Jan;

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