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
- 2nd TB Research Methods Course, July 6-10, 2015 [Course details]
- Global Health Diagnostics Course, July 6-10, 2015 [Course details]
- 5th 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](#)
- [Guidelines on the management of latent tuberculosis infection](#)
- [Tuberculosis diagnostics technology and market landscape – 3rd edition, 2014](#)
- [Market Assessment of Tuberculosis Diagnostics in Brazil in 2012](#)
- [Replacing smear microscopy for the diagnosis of tuberculosis: what is the market potential?](#)

Scientific articles

- [Diagnostic Value of GeneChip for Detection of Resistant Mycobacterium tuberculosis in Patients with Differing Treatment Histories](#)
False-negative interferon-γ release assay results in active tuberculosis: a TBNET study.

Optimization of a Nucleic Acid-Based Reporter System To Detect Mycobacterium tuberculosis Antibiotic Sensitivity.

Evaluation of the Cepheid Xpert MTB/RIF assay.

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.

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

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

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.

A new antibiotic kills pathogens without detectable resistance.

Multidrug-resistant tuberculosis around the world: what progress has been made?

Rifampicin and rifapentine significantly reduce concentrations of bedaquiline, a new anti-TB drug.

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.

Low minimal inhibitory concentrations of linezolid against multidrug-resistant tuberculosis strains.
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.