New Diagnostics Working Group E-news (Jan 2014)

New scientific articles

**Diagnostic accuracy of interferon gamma-induced protein 10 for tuberculosis: a meta-analysis.**

**GeneXpert MTB/RIF Version G4 for Identification of Rifampin-Resistant Tuberculosis in a Programmatic Setting.**

**Point-of-Care System for Detection of Mycobacterium tuberculosis and Rifampin Resistance in Sputum Samples.**

**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.**

**Gold nanoprobe for multi locus assessment of multi-drug resistant tuberculosis.**

**Phylogenetic polymorphisms in antibiotic resistance genes of the Mycobacterium tuberculosis complex.**

**A rapid fluorescence polarization-based method for genotypic detection of drug resistance in Mycobacteriumtuberculosis.**

**Xpert® MTB/RIF assay for pulmonary tuberculosis and rifampicin resistance in adults**

**Point-of-care urine test for assessing adherence to isoniazid treatment for tuberculosis.**

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

**Application of lipoarabinomannan antigen in tuberculosis diagnostics: current evidence.**

**Performance of the MTBDRsl assay in Georgia.**
Second-line drug susceptibility breakpoints for *Mycobacterium tuberculosis* using the MODS assay.
Int J Tuberc Lung Dis. 2014 Feb

**Evaluation of Xpert MTB/RIF for the diagnosis of tuberculous meningitis.**

**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**

**Significant reduction in the rate of indeterminate results of QuantiFERON-TB Gold In-Tube test by shortening incubation delay**

**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.**

**Evolution and transmission of drug-resistant tuberculosis in a Russian population.**

**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.**

**Tuberculosis elimination: theory and practice in Europe**
**ERS/WHO Tuberculosis Consilium: reporting of the initial 10 cases**

**Circulating Mycobacterium bovis Peptides and Host Response Proteins as Biomarkers for Unambiguous Detection of Subclinical Infection.**

**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**

**Sterilization of granulomas is common in active and latent tuberculosis despite within-host variability in bacterial killing**

**Mycobacteria manipulate macrophage recruitment through coordinated use of membrane lipids**

**Role of clofazimine in the treatment of multidrug-resistant tuberculosis: a retrospective observational cohort assessment**

**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**

**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**