

14. Spelunking for treasure: searching for candidate biomarkers as prognostic indicators for treatment outcome

**THE 46TH UNION
WORLD CONFERENCE
ON LUNG HEALTH**

CAPE TOWN, SOUTH AFRICA
2-6 DECEMBER 2015

Friday, 04 December 2015, 13:30 - 15:00

Ballroom West-Westin

Type of session	Symposium
Track	TB diagnostics, including molecular methods
Track2 (optional)	TB other
Description	The discovery of biomarkers is an important goal in current TB research because the availability of such markers would have a significant impact on TB prevention and treatment. Many Mycobacterium tuberculosis and human biomarkers have been studied over the past decade, and yet we are still searching for the most highly predictive marker for treatment success. Identifying robust biomarkers will improve clinical management and assist in assessing new anti-TB agents under clinical trials. In this session, we explore the current research and developments leading to promising options.
Target audience	<ol style="list-style-type: none"> 1. Clinicians, clinical trial implementers, diagnostic product developers 2. TB researchers, diagnostic specialists
Objectives	<ol style="list-style-type: none"> 1. To provide an update on biomarker developments focused on treatment outcome 2. To showcase relevant and important breakthroughs in biomarker research 3. To promote diagnostic development and demonstration research for biomarkers
Keywords	Biomarker; molecular; Xpert MTB/RIF; T-cell; activation; treatment; monitoring; cure; suPAR
Coordinator(s)	Kathleen England (Netherlands)
Chair(s)	Frank Cobelens (Netherlands), Daniela Cirillo (Italy)
Presentations	<p>13:30 - 13:40 Potential and limitations of current candidate host biomarkers ?for treatment response Gerhard Walzl (South Africa)</p> <p>13:45 - 13:55 Static and dynamic measures of bacterial load using Xpert MTB/RIF as a prognostic marker of culture conversion and cure in pulmonary TB patients David Alland (USA)</p> <p>14:00 - 14:10 Molecular analysis of Mycobacterium tuberculosis (and host) in sputa Gary Schoolnik (USA)</p> <p>14:15 - 14:25 Prospective T-cell activation markers for monitoring treatment and predicting cure Christof Geldmacher (Germany)</p> <p>14:30 - 14:40 Use of the simple biomarker suPAR to assess severity of TB disease and to monitor treatment Christian Wejse (Denmark)</p> <p>14:45 - 15:00 Discussion</p>