

**22. The nature of the beast: emerging molecular information about mycobacteria**  
**Sunday, 06 December 2015, 13:30-15:00**

Chair(s): Robin WARREN (South Africa), Amy PIATEK (USA)

Track: Basic science

- OA-467-06**      **Selective reconstitution of interferon-gamma gene function in T cells suffices to restore protection against mycobacterial lung infection**  
13:30-13:40  
P Blank, K Borst, E Grabski, T Frenz, U Kalinke (*Germany*)
- OA-468-06**      **Genomic and proteomic analysis of Mycobacterium tuberculosis lineage 7 strains from Ethiopia**  
13:40-13:50  
S Yimer, A Namouchi, T Riaz, Ed Zegeye, C Holm-Hansen, G Norheim, A Aseffa, Tone Tønjum (*Norway, Ethiopia*)
- OA-469-06**      **Single cell elucidation of mycobacterial replication dynamics**  
13:50-14:00  
S Sampson, J Mouton, S Helaine, Dw Holden (*South Africa*)
- OA-470-06**      **Next generation sequencing reveals hidden ethionamide resistance as a likely driver towards resistance beyond XDR-TB in a high-burden population**  
14:00-14:10  
M Klopper, G Hill-Cawthorne, R Van Der Merwe, S Sampson, E Streicher, A Abdallah, R M Warren, P Arnab (*South Africa*)
- OA-471-06**      **ASAP, an automated sequence analysis pipeline for whole genome sequencing data, initial applications in Mycobacterium tuberculosis**  
14:10-14:20  
R Van Der Merwe, R M Warren, A Dippenaar, M De Vos, P Van Helden, A Abdallah, P Arnab, S Sampson (*South Africa*)
- OA-472-06**      **Host targeted therapy for tuberculosis via aerosol administration of siRNA targeting IL-10 and STAT3**  
14:20-14:30  
R Upadhyay, A Sanchez-Hidalgo, J Arab, C Wilusz, A Lenaerts, M Gonzalez-Juarrero (*USA*)
- OA-473-06**      **Use of plasma metabolomics at diagnosis to identify metabolic pathways associated with pulmonary tuberculosis clearance: a pilot study**  
14:30-14:40  
J Frediani, E Chong, J Alvarez, T Yu, D Jones, N Tukvadze, H Blumberg, T Ziegler (*USA, Georgia*)
- OA-474-06**      **A web-based interface to explore and analyze Mycobacterium tuberculosis whole genome sequence data**  
14:40-14:50  
M Farhat, J Honaker, C Choirat, T Ioerger, M Murray (*USA*)
- 14:50-15:00      Discussion