

08. The molecular basis of PZA resistance: from bench to bedside
Friday, 04 December 2015, 13:30-15:00

Chair(s): Daniel JOHNSON (USA), Kevin SCHWARTZMAN (Canada)

Track: Drug resistance determination - molecular and phenotypic

- OA-356-04** **Mutations in *gyrA* and *gyrB* among fluoroquinolone- and multidrug-resistant *Mycobacterium tuberculosis* isolates**
13:30-13:40
J-Y- Chien, S-T Chien, C-J- Yu, P-R- Hsueh (*Taiwan*)
- OA-357-04** **Identification of *pncA* gene regions associated with high-level pyrazinamide-resistant TB in China**
13:40-13:50
D Li, Yi Hu, J Werngren, M Mansjo, Sven Hoffner, B Xu (*China*)
- OA-358-04** **Prevalence of common and rare *Mycobacterium tuberculosis* resistance-conferring mutations in Uganda**
13:50-14:00
W Ssengooba, F Cobelens, D Lukoye, Gw Kasule, M Joloba, B De Jong (*Netherlands, Uganda, Belgium*)
- OA-359-04** **Construction and validation of a three-color single-tube assay for the detection of resistance to first- and second-line anti-tuberculosis drugs**
14:00-14:10
M De Vos, J Rice, N Ismail, B Kreiswirth, T Dolby, P Van Helden, R M Warren, L Wangh (*South Africa, USA*)
- OA-360-04** **Association between genotypic and phenotypic pyrazinamide resistance in INH and RMP mono-resistant and MDR-TB isolates**
14:10-14:20
M Whitfield, E Streicher, L Scott, W Stevens, S Sampson, P Van Helden, R M Warren, A Van Rie (*South Africa, USA*)
- OA-361-04** **Genotypic testing using next-generation sequencing is superior to phenotypic testing for pyrazinamide susceptibility testing**
14:20-14:30
S Omar, N Ismail, Aw Dreyer, N Ismail (*South Africa*)
- OA-362-04** **Large *pncA* gene deletions in *Mycobacterium tuberculosis*: a novel mechanism of pyrazinamide resistance**
14:30-14:40
E Streicher, R Van Der Merwe, S Sampson, A Dippenaar, M Whitfield, N Da Camara, P Van Helden, P Arnab (*South Africa*)
- OA-363-04** **Virtual sequencing of the entire *pncA* gene target in a single tube using Late-PCR and Lights-On/Lights-Off probes to predict PZA susceptibility**
14:40-14:50
B Kreiswirth, J Rice, L Wangh, M Whitfield, R M Warren, J Posey, P Bifani, S Marras (*USA, South Africa*)
- 14:50-15:00 Discussion