MYCOBACTERIUM TUBERCULOSIS
GENOME SEQUENCING REPORT
NOT FOR DIAGNOSTIC USE

Patient Name	DOUGLAS JONES	Barcode	BARCODE
Birth Date	1890-01-01	Patient ID	12345678
Location	OXFORD	Sample Type	SPUTUM
Sample Source	PULMONARY	Sample Date	1916-12-25; 15:33
Sample ID	ABDH615D!	SequencedFrom	MGIT CULTURED ISOLATE
Reporting Lab	OXFORD	Report Date/Time	1917-01-03
Requested By	DR. REQUESTOR NAME	Requester Contact	CONTACT@GENOME.COM

Summary

The specimen was positive for **Doppelganglius Bob**. It is predicted to be **susceptible to all drugs**. It belongs to a cluster, suggesting **recent transmission**

Organism

The specimen was positive for *Doppelganglius Bob*, lineage 2.2.1 (**East-Asian Beijing**)

Drug Susceptibility

Resistance is reported when a high-confidence resistance-conferring mutation is detected. **"No mutation detected" does not exclude the possibility of resistance**

- ☑ No drug resistance predicted
- ☐ Mono-resistance predicted
- ☐ Multi-drug resistance predicted
- ☐ Extensive drug resistance predicted

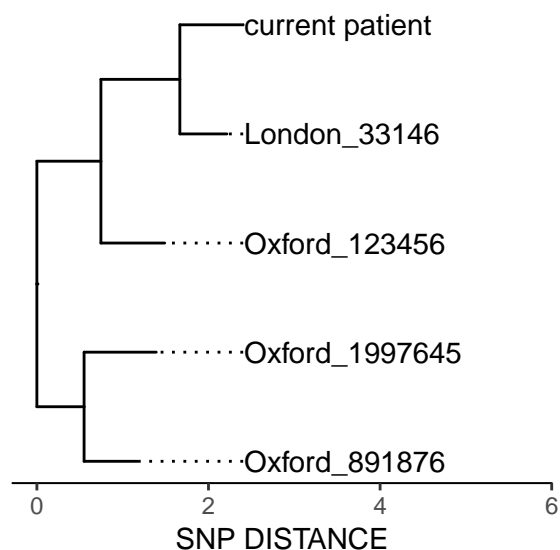| Drug class	Interpretation	Drug	Resistance Gene (Amino Acid Mutation)
First-line	Susceptible	Ethambutol	No resistance mutation detected
		Pyrazinimide	No resistance mutation detected
		Isoniazid	No resistance mutation detected
		Rifampin	No resistance mutation detected
Second-line	Susceptible	Streptomycin	No resistance mutation detected
		Ciprofloxacin	No resistance mutation detected
		Moxifloacin	No resistance mutation detected
		Amikacin	No resistance mutation detected
		Kanamycin	No resistance mutation detected
		Capreomycin	No resistance mutation detected

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Cluster Detection

Current specimen was found to be closely clustered with previous specimens suggesting **recent transmission**

Relatedness	Number of prior matching isolates
Likely Related (< 5 SNPS apart)	**2** isolates
Possibly Related (6 to 30 SNPS apart)	**2** isolates

current patient
London_33146
Oxford_123456
Oxford_1997645
Oxford_891876

0   2   4   6
SNP DISTANCE

Assay Details

Sample ID	A12345678	Barcode	
Sequencer	ILLUMINA HISEQ 2500	Method	WGS
Pipeline	RESEQTB V.3.2C	Reference	H37RV

Comments

No words needed

Standard Disclaimer: Low frequency hetero-resistance below the limit of detection by sequencing may affect typing results. The interpretation provided is based on the current understanding of genotype-phenotype relationships.

Authorised

Signature		Name	
Position		Date	