MYCOBACTERIUM TUBERCULOSIS GENOME SEQUENCING REPORT



NOT FOR DIAGNOSTIC USE

Patient Name	ANDY BRENNAN	Barcode	BARCODE
Birth Date	1877-05-26	Patient ID	45678901
Location	LONDON	Sample Type	SPUTUM
Sample Source	PULMONARY	Sample Date	1917-01-01'08:30
Sample ID	10DBFH162784	SequencedFrom	MGIT CULTURED ISOLATE
Reporting Lab	OXFORD	Report Date/Time	1917-01-11
Requested By	DR. REQUESTOR NAME	Requester Contact	CONTACT@GENOME.COM

Summary

The specimen was positive for **Mycobacterium tuberculosis**. It is predicted to be **resistant to Isoniazid**. It belongs to a cluster, suggesting **recent transmission**

Organism

The specimen was positive for Mycobacterium tuberculosis, lineage 2.2.1 (East-Asian Beijing)

Drug Susce	ptibility		
conferring mutat	ported when a high-con tion is detected. "No n the possibility of resista	nutation detected"	 □ No drug resistance predicted ☑ Mono-resistance predicted □ Multi-drug resistance predicted □ Extensive drug resistance predicted
Drug class	Interpretation	Drug	Resistance Gene (Amino Acid Mutation)
Susceptible First-line	Ethambutol	No resistance mutation detected	
	Susceptible	Pyrazinimide	No resistance mutation detected
	Rifampin	No resistance mutation detected	
	Resistant	Isoniazid	katG (S315T)
		Streptomycin	No resistance mutation detected
Second-line Susceptible	Ciprofloxacin	No resistance mutation detected	
	Suscentible	Moxifloacin	No resistance mutation detected
	Cascoptible	Amikacin	No resistance mutation detected
		Kanamycin	No resistance mutation detected
		Capreomycin	No resistance mutation detected

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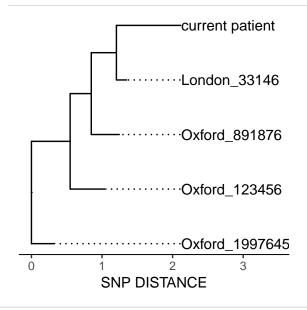




Cluster Detection

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



Assay Details

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

Comments

No additional comments

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.

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Signature	Name
Position	Date