

Exatype Mtb supports the analysis of *Mycobacterium tuberculosis* NGS data

Exatype Mtb features:



Reports resistance data for 15 anti-TB drugs as well as the WHO drug-resistance profiles (e.g., MDR, XDR)



Various results and downloads available, e.g. lineage-typing, consensus sequences, and mutation prevalences



Streamlined workflow: requires no expert training or lengthy installation processes



High-throughput: scaled through parallel, cloud processing; results ~1h (dependent on sample size)

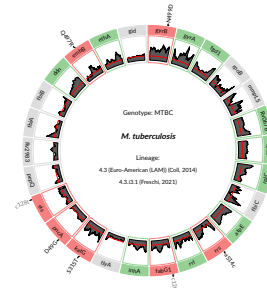


Supports the analysis of both targeted and WGS (whole-genome sequencing) data



Assay-agnostic & customisable to your assay needs; compatible with Illumina and Ion Torrent platforms

Example results:



MTBC-strain genotyping, coverage plot, and lineage typing (left); *Mtb* drug-susceptibility report (below).

Name: Targeted-02 Analysis date: 2024-05-10 09:30
 Product: Mtb (Targeted) Sample status: Completed
 Sequencing platform: Illumina Exatype version: 24.8.1.2
 Data structure: Paired-end Resistance algorithm: WHO Mtb Catalogue 2nd Ed v1.0.0
 Assay: Mtb WHO drug resistance category*: MDR-TB
 DRM prevalence cutoff: 10%

● Susceptible ● Resistance ● Low coverage

DRUG CLASS	DRUG	CALL ¹	DRMS ≥ 10% PREVALENCE
FIRST-LINE	EMB	R	[embB] M306V
	INH	R	[katG] S315T
	PZA	R	[pncA] H57R
	RIF	R	[rpoB] S450L
SECOND-LINE	AMK	S	
	BDQ	S	
	CAP	S	
	CFZ	S	
	DLM	S	
	ETO	S	
	KAN	R	[inter_eis_Rv2417c] g130a
	LEV	S	
LZD	S		
MXF	S		
STM	R	[rpsL] K43R	

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 *The WHO drug resistance category is based on the resistance profile of the sequencing data. The WHO defines these categories as: DR-TB (resistance to Isoniazid), RR-TB (resistance to Rifampicin), MDR-TB (resistance to Isoniazid and Rifampicin), preXDR-TB (resistance to Rifampicin and any Fluoroquinolone) and XDR-TB (resistance to Rifampicin, any Fluoroquinolone and at least one of the drugs: Bedaquiline and Linezolid).
 Exatype sample ID: 78302214-aa06-4ea4-a41f-3705deed8657

At **Hyrax Biosciences**, we believe in taking the complexity out of sequence data analysis. Our cloud-based NGS-analysis platform, **Exatype**, combines scalable tech and unique algorithms to deliver actionable results in a few simple steps.

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Visit hyraxbio.com or contact us at info@hyraxbio.com to discuss how we can support your assay needs.