

EXATYPE™

Enabling rapid, accurate drug resistance testing and real-time surveillance of resistance outbreaks.

<https://exatype.com>



South African Patent No. 2013/05467

What is Exatype?

Drug resistance threatens the successful treatment of many infectious diseases. For example, antimicrobial resistance (AMR) is estimated to be responsible for as many as 700,000 deaths worldwide each year. Both accurate diagnosis and resistance testing, as well as consistent surveillance, are needed to stem this tide.

Exatype is a cloud-based software platform that enables the interpretation of next-generation sequencing (NGS) drug resistance data from all major sequencing platforms (Ion Torrent, Roche/454, Illumina and PacBio). **Exatype** facilitates both accurate resistance testing and anonymised real-time incidence and resistance surveillance.

Benefits of Exatype

ACCURATE

Corrects errors inherent in NGS data generation (e.g. homopolymers) for unrivalled mutation detection.

SENSITIVE

Can detect resistant mutations at as little as 1% prevalence in viral populations.

EASY TO USE

No bioinformatics expertise required.

FAST

Typical analysis takes under 30 minutes and an unlimited number of samples can be analysed concurrently.

COST-EFFECTIVE

Highly competitive pricing structure.

Try it for yourself - <https://exatype.com>



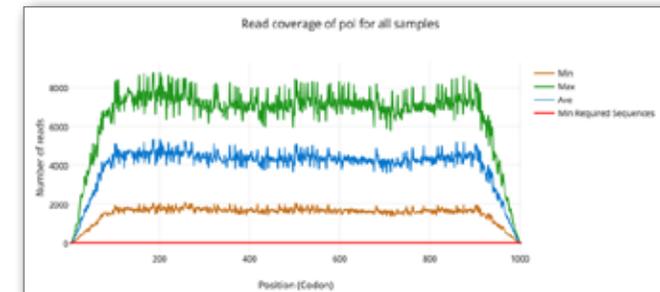
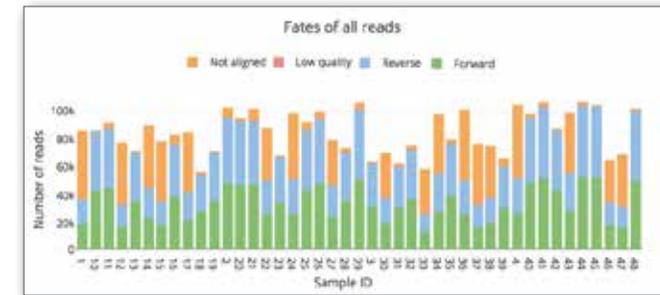
HYRAX
BIOSCIENCES

Hyrax Biosciences creates user-friendly, end-to-end DNA analysis software solutions with unrivalled accuracy, reducing complex sequencing data to clear clinical reports.

Our product portfolio includes analysis of HIV, TB and antibiotic-resistant bacteria.

For more information visit www.hyraxbio.com or contact our team at info@hyraxbio.com.

Example result data (HIV)



CLASS	DRUG	CALL	DRMS ≥ PREVALENCE
NRTI	3TC	S	
	ABC	S	
	AZT	S	
	D4T	S	
	DDI	S	
	FTC	S	
	TDF	S	
NNRTI	EFV	R	K103N, E138A
	ETR	S	
	NVP	R	
	RPV	I	
PI	ATV/R	S	
	DRV/R	S	
	FPV/R	S	
	IDV/R	S	
	LPV/R	S	
	NFV	S	
	SQV/R	S	
INI	TPV/R	S	
	DTG	S	
	EVG	S	
	RAL	S	

How Exatype works

 **Exatype** provides an easy-to-use web-based interface for the upload and subsequent analysis of sequencing EXATYPE data. However, NGS machines can also integrate directly with **Exatype**, where the data are uploaded for analysis automatically.

The design of **Exatype** allows for rapid development and deployment of new diagnostic tests.

Cloud-based processing ensures rapid results and seamless scalability. Data are transferred and stored using high-grade security and privacy protocols.

