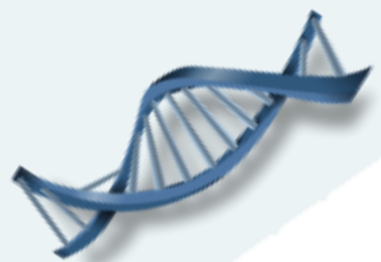


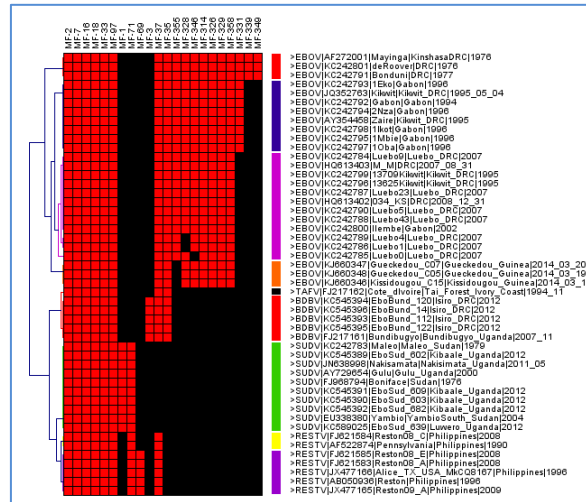
# Genomics Motif Fingerprinting Platform

next-generation genome analysis to develop vaccines, diagnostic kits, natural products biosynthesis



Too much genomic data?  
GF Platform – *finds the needle in the haystack!*

Benefits	
Speed	100x faster than large platforms
Accuracy	Minimize false results
Sensitivity	Finds your target
Whole genomes Metagenomes	Analyzes all public DB
Ease of use	Powerful data interpretation tools



- Platform as a Service
- Advanced Consulting & Collaborations

## Why?

- Converts BIG data into useful information to create products and services
- Provides most relevant results to reduce time-to-market

## Who?

- US & UK agencies: support key biosecurity activities
- Industry: Scientific Discovery and R&D
- Academia: basic discovery research for biomarkers, natural product biosynthetic pathways, environmental monitoring



## Genome Analyses

### GF Platform

State-of-art algorithms

### Others

Outmoded: BLAST, FASTA, SSEARCH ...

### Time

Minutes

Days

### Dataset

Whole genomes;  
all public DB

Reference genome /  
genes

### Analysis

Unbiased

Biased

### interpretation

Easy

Difficult

### Outcomes

Fast to  
products

More research  
required



GF Platform

Others

## Diagnostic

Kits



High resolution;  
True target;  
quantitative

High accuracy  
Less false +, -

Every motif,  
gene, organism

Single genes /  
organisms

Low accuracy

Low resolution;  
qualitative

## Vaccines



Candidates in  
weeks!

High specificity -  
low cross-  
reactivity

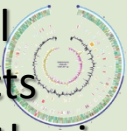
Better efficacy  
More clinical  
success

Costly failures in  
clinical

High cross-  
reactivity

Candidates in  
years

## Natural Products Biosynthesis



Superior  
characterization  
of candidates

Find many  
signatures

Parallel screen  
of multiple  
genomes

Sequential  
screen

Grow many  
organisms

Limited  
characterization  
of candidates