Battelle **ExactID**® **2.0**

SOFTWARE FOR FORENSIC GENOMIC ANALYSIS

Battelle ExactID® 2.0 is the first and only kit and sequencer-independent next generation sequencing software for forensic DNA analysis. ExactID provides a revolutionary new way to solve cases that have never been solved before. **ExactID turns DNA into a witness, a very objective witness.**

ExactID ushers in the new era of investigative genetics where the power of DNA sequence data is forensically exploited; all while retaining backward compatibility with mainstream fragment analysis.

This software offers an intuitive and easy to use interface for processing sequence data for forensic applications, and provides analysts a way to view sequencing data in familiar and understandable forensically relevant formats.

ExactID was perfected by Battelle based on expertise gained developing similar forensic applications for the U.S. Government.

FEATURES

Accurate and Reproducible
A novel non-alignment signal processing method accurately types any allele sequence with > 99% sensitivity and specificity. Concordance to both CE and alternative NGS chemistries.

Robust Performance
Any STR allele can be typed, including previously unknown sequences. Capability to provide sequence data in regions flanking the STR repeat.

Database Functionality
Provides sequence data back-compatible for STR and Y-STR markers within NDIS database, with corresponding CODIS export files.

Universal NGS Marker Solution
Autosomal STR, Y-STR, X-STR, SNP, mtDNA

Intuitive User Interface
Friendly interface for basic as well as advanced data interpretation. Easy to use for staff training and technical competency.

Fast
Ten second processing for a 100 MB FASTQ file.

DNA QAS
Electronic and automated tracking of user analyses.

ISFG Allele Designation Compatible
Generates repeatable ISFG-compatible allele designations for STR alleles.
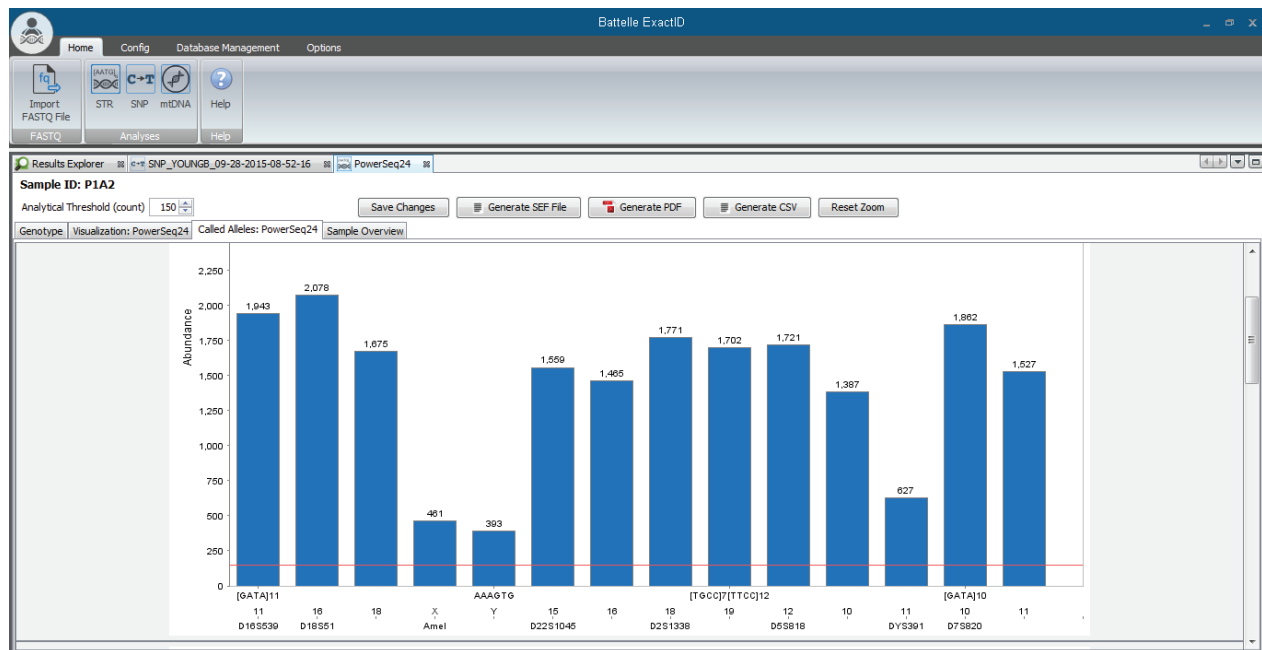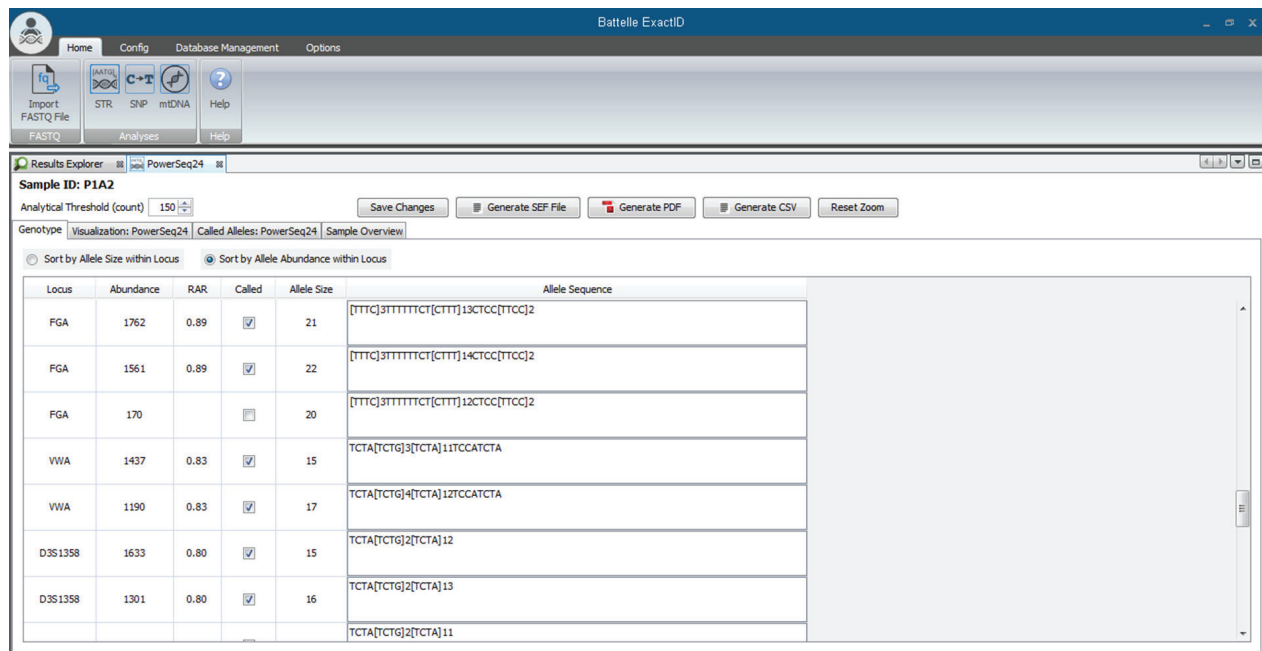
D21S11 Allele 29.3 Sequence

TCTATCTATCTATCTATCTGTCTGTCT-GTCTGTCTGTCTGTCTATCT ATCTATATCTATCTATCTATCATCTATC-TATCCATATCTATCTATCTATC TATCTATCTATCTATCTATCTA

ISFG Designation Produced by ExactID

$[TCTA]_4[TCTG]_6[TCTA]_3TA[TCTA]_3 TCA[TCTA]_2TCCATA[TCTA]_9$

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Translate Sequence Data into Recognizable Graphic Displays

Every day, the people of Battelle apply science and technology to solving what matters most. At major technology centers and national laboratories around the world, Battelle conducts research and development, designs and manufactures products, and delivers critical services for government and commercial customers. Headquartered in Columbus, Ohio since its founding in 1929, Battelle serves the national security, health and life sciences, and energy and environmental industries. For more information, visit www.battelle.org.

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It can be done