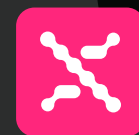# VoltaHyb™ for IDT xGen™ Hybridization Capture

Fully automated workflow reduces hands-on time and operator variability

The VoltaHyb™ App offers scalable hybridization captures for panels of all sizes. Callisto supports flexible batch sizes up to 24 captures with preloaded workflows to maximize utilization for Illumina sequencing. Fully automated hybridization, washes, and PCR setup deliver high-quality libraries without inter-operator variability.

Benefits of hybridization capture on Callisto

- Walk-away, automated solution for end-to-end hybridization capture workflow

- High-quality enrichment performance independent of operator

- Consistent coverage uniformity and high proportion of on-target bases for variable panel sizes

- Flexible throughput to support variable project sizes and needs

The Volta Labs Callisto™ Sample Prep System offers an automated, end-to-end solution for complex hybridization capture.

App specifications

Input: **500 ng to 10 μg of DNA libraries**

Output: **Amplification-ready libraries to sequence**

Hands-on time: **Less than 30 minutes**

Callisto processing time: **7 – 25 hours**

Throughput: **Flexible, 4 – 24 rxns in a single run**

Multiplexing: **Flexible, 1 – 20 libraries**

Panel Size: **~10k (Pan-Cancer) to ~400k (Exome) probes**

Chemistry: **IDT xGen™ Hybridization Capture**

Workflow steps

Input: IDT xGen™ DNA Libraries

Hyb Reaction Setup

Hybridization (4 – 22 hours)

Capture*

Heated Washes

RT Washes

PCR Setup

Walk-away processing on Callisto

Output: Post-Capture libraries ready for PCR amplification

*Load Volta consumables

The Callisto™ Sample Prep System achieves uniform and consistent sequence coverage compared to manual
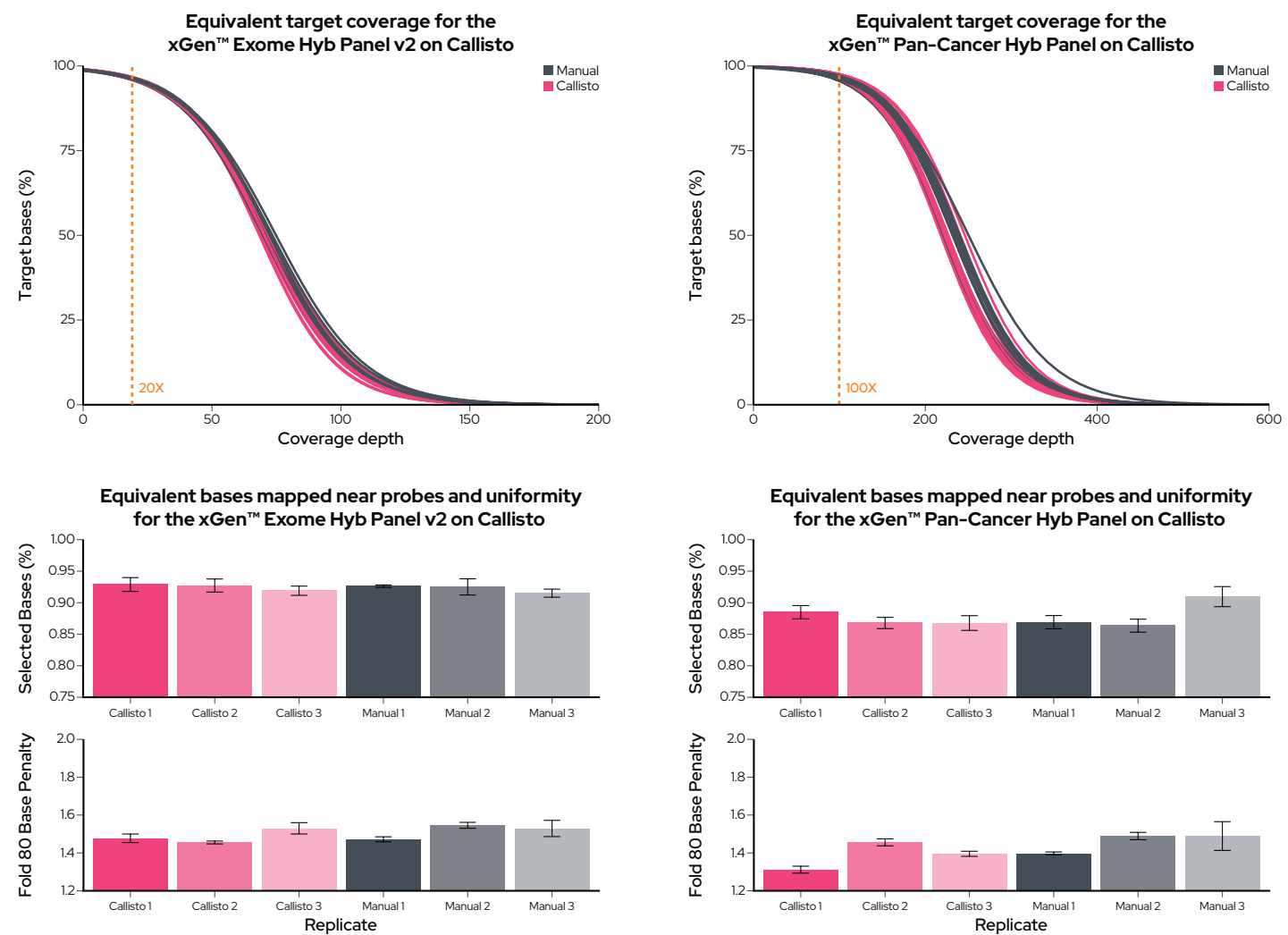

Figure 1. Libraries were manually prepared from 100 ng of HG002 using the xGen™ DNA Lib Prep EZ for the xGen™ Exome Hyb Panel v2 and 20 ng Horizon's OncoSpan using the xGen™ cfDNA & FFPE DNA Library Prep v2 MC Kit cfDNA for the Pan-Cancer panel. Each user prepared 4 replicates for Callisto and manual workflows.

Ordering information

Part number	Product	Description
C0001	Callisto™ Sample Prep System	Sample prep instrument
HC0001	VoltaHyb™ for IDT xGen™ (16 rxns)	Hybridization consumables for 16 reactions

HC0001 does not include IDT xGen™ reagents or probes, which should be purchased directly from IDT.

IDT DISCLAIMER: Unless otherwise agreed to in writing, IDT does not intend these products to be used in clinical applications and does not warrant their fitness or suitability for any clinical diagnostic use. Purchaser is solely responsible for all decisions regarding the use of these products and any associated regulatory or legal obligations.

Volta Labs™