

Xbiom™ A Workbench for Translational and Biomarker Research

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Xbiom™ Workbench for Translational and Biomarker Research is a tried and proven module of Xbiom currently in production use at Big Pharma and Biotech clients. The workbench unifies clinical trial data and their patient’s biomarkers obtained during the studies or later from the bio-samples. The Xbiom workbench provides biomarker researchers trying to discover new biomarkers or validating known or suspected markers a powerful search and query system to find finely stratified cohorts and then visualizing the results and data with onboard or external analysis tools. Learn more about Xbiom Workbench for Translational and Biomarker research by [downloading our white paper](#).

Some reasons why your Biotech should consider subscribing to Xbiom Workbench:

- It is a searchable workbench for unifying biomarker data from patients and clinical trial data
- It respects confidential patient data obtained under an ICF
- Rich list of Biomarkers, Genes, RNAs, Proteins and Metabolomes include:
 - Referenced checked lists from global registries,
 - Potential markers from patient bio-samples, and
 - Your unpublished but suspect/identified biomarkers
- Discover new or potential biomarkers for companion diagnostics, predictors, or therapies by testing hypothesis against stratified cohorts selected from your data
- Crunch time to market with adaptive trials
- All your clinical trial data will be ingested into Xbiom for indexing and availability for search.

Omics Data currently supported in Xbiom’s ontologies:

OMICS	Measurement	Measurement Types	Assays, Technologies, Methods	Data Vendors	Reference Dictionaries	Current Biomarker Counts
Genomics	Genetic Variation	Short Variant	DNA Targeted Sequencing, Digital PCR	Foundation Medicines; Sysmex	NCBI Gene Info, COSMIC	
		Copy Number Alteration				

Version 2.0

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		Rearrangements		Inostics; Applied Biosystems		
Transcriptomics	Sequencing	Targeted RNA Sequencing	Targeted RNA Sequencing	Illumina	NCBI Gene Info	59670 ^{**} (Genes)
	Expression	Gene Expression; Targeted mRNA expression	Microarray, Nanostring	AltheaDx; NanoString Technologies	NCBI Gene Info	
		miRNA expression	qRT-PCR	Covance	miRBase	2656 (miRNA)
		*Targeted mRNA detection	In situ Hybridization			
Proteomics	Expression	Expression of Proteins	Immunohistochemistry	Mosaic Laboratories	UniProt (SwissProt)	20214 (Proteins)
	Concentration	Concentration of Proteins	Immunoassay, ELISA, Multiplex Assay	Myriad RBM		
	Immune cells Population	*Cell Sorting (Cluster of Differentiation) Cell surface proteins	Flow cytometry			
Metabolomics	Concentration	Concentration of Metabolites	Liquid Chromatography-Mass Spectrometry	BIOCRATES Life Sciences AG	Human Metabolome Database (HMDB)	114100 (Metabolites)

In addition to omics data, Xbiom also unifies clinical trial data from SDTM and AdAM sets as well as by ingesting from your EDCs from trial specific Operational Data Models. Xbiom includes smart transformation tools and PointCross provides data services to help you ingest data quickly and efficiently.

Xbiom Workbench is available with all the standard tools and reference data for known biomarkers on a dedicated instance set up on our AWS (Amazon Web Services) hosted SaaS (Software as a Service) environment. All pricing and set up processes indicated here is for a SaaS installation. If you need an on-premise or private dedicated hosting please inform us at insights@pointcross.com.