

AltheaDx Service Offerings

Gene Expression

Multiplex PCR Panels

	<i>Panel (# of Genes)</i>
Inflammation Assays	Immunotoxicity Plex (25) Inflammatory Plex (27) Sepsis Plex, 2 gene sets (44)
Cancer Assays	Breast Cancer Plex (29) Metastasis Plex (20)
Tox and Specialty	Chemo Response Plex (19) Growth Reg II Plex (24) Metabolism Plex (22) Multitox Plex (26) Multistress Plex (23) Nephrotoxicity Plex (24) Reference Plex (26) Transport Plex (27) Stem Cell Plex (24)

Custom Services

Custom Multiplex PCR Panels
Compound Testing/Screening (*in vivo, in vitro*)
siRNA Validation
Microarray Data Validation

Full incorporation of Quality Programs

GLP
Non-GLP
CLIA (Q1, 2009)

Sample Access

Prospective trials
Prospectively designed retrospective trials
Fixed sample collections
Formalin-fixed paraffin-embedded tissues
Fine needle aspirates
Cell culture
Animal models

Sample Prep and Process

Automated and manual methods
Blood/urine/tissue/cells
Microdissection from tissue sections
Robust quality control (QC) procedures
Sample processing using a barcode system

Genotyping

Single mutation detection
SNP analysis
Targeted PCR sequencing
Gene Mutation Panels:
EGFR (29 mutations)
k-Ras (7 mutations)
b-Raf (1 main mutation)
Custom panels (up to 44 mutations)
Cyp450 isoform variants (in development)
Drug resistance (in development)

Analysis Platforms

Gene Detection/Quantification
XP-PCR Multiplex quantitative PCR
XP-PCR Short Fragment (FFPE)
TaqMan
Affymetrix GeneChip (for regular samples, small-amount samples and FFPE samples)
Standard panels
Custom assay development
Tech transfer of developed assays to client labs

Data Analysis

Microarray Data Analysis

Standard and customized data summarization and normalization
Differentially expressed genes detection
Clustering and principal component analysis
Pathway and Gene Ontology enrichment analysis
Statistical graphics

XP-PCR Multiplex Data Analysis

Optimized data normalization (multiple control genes)
Customized outlier detection and reduction
Differentially expressed genes detection
Clustering and principal component analysis
Pathway and Gene Ontology enrichment analysis
Statistical graphics

Data Analysis Consulting

Experimental design and planning
Predictive signature modeling
Survival analysis
Advanced statistical graphics
Customized third-party data analysis

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