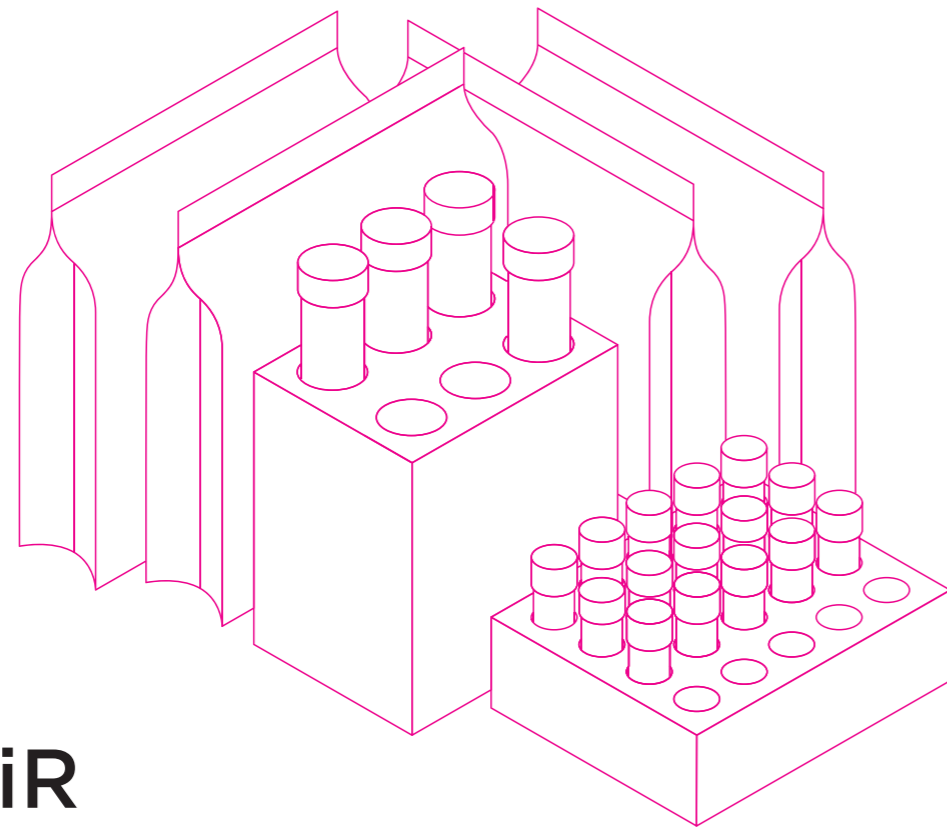




ID3EAL™
PanoramiR
microRNA
Knowledge
Panel

Generate impactful findings by targeting microRNAs with known disease associations.

ID3EAL™ PanoramiR microRNA Knowledge Panel



The fast track to impactful miRNA discoveries

The ID3EAL PanoramiR panel is an effective approach to screening for miRNAs important in signaling pathways, disease mechanisms, or biomarker discovery for disease diagnosis and subtyping.

PanoramiR targets 376 miRNAs expertly curated from miRBase 22, HMDD 3.2 and The Cancer Genome Atlas. This is further cross-referenced with high-impact publications and in-house research data.



Features & Benefits

- ✓ **Expertly curated disease-relevant** miRNA panel increases the success of generating impactful findings.
- ✓ **Highly sensitive and robust** ID3EAL™ RT-qPCR based technology.
- ✓ **Validated** multiplexed primer pools prevents resource wastage.
- ✓ **Relevance to multiple diseases and sample types** including plasma, serum and FFPE.

Relevant diseases include:

Cancers	Bladder, Stomach, Thyroid, Esophageal, Brain, CNS, Liver, Cervical, Breast, Leukemia, Lymphoma, Uterine, Lung, Colon & Rectum, Prostate, Ovarian, Pancreatic
Dementias	Alzheimer Disease, Dementia, Frontotemporal Dementia, Frontotemporal Lobar Degeneration
Cardiovascular Diseases	Stroke, Acute Coronary Syndrome, Acute Heart Failure, Acute Myocardial Infarction, Alcoholic Cardiomyopathy, Aortic Insufficiency
Liver Diseases	Acute Liver Failure, Alcoholic Hepatitis, Chronic Hepatitis, Chronic Hepatitis B, Chronic Hepatitis C, Fatty Liver
Others	Kidney disease, Diabetes, Depression Disorder

References

Key principles of miRNA involvement in human diseases. Discoveries (Craiova). 2014 Oct-Dec; 2(4): e34.



[View miRNA examples with disease associations and pathways/mechanisms
\(To visit, click or scan QR-Code on the right \).](#)



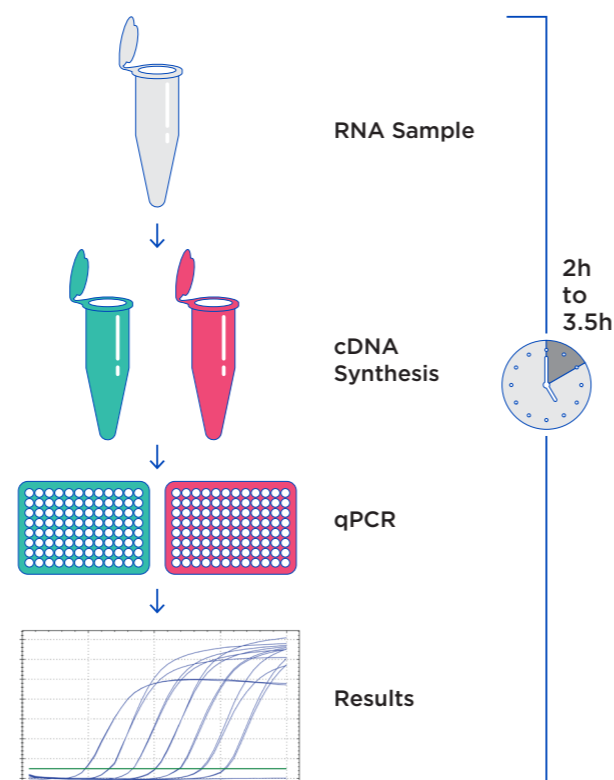
Fast and Convenient Workflow

Fast: RNA-to Ct in 2 hours

The proprietary ID3EAL™ RT-qPCR technology enables results from RNA samples in just 2 hours or 3.5 hours with a pre-amplification step for ultrasensitive detection.

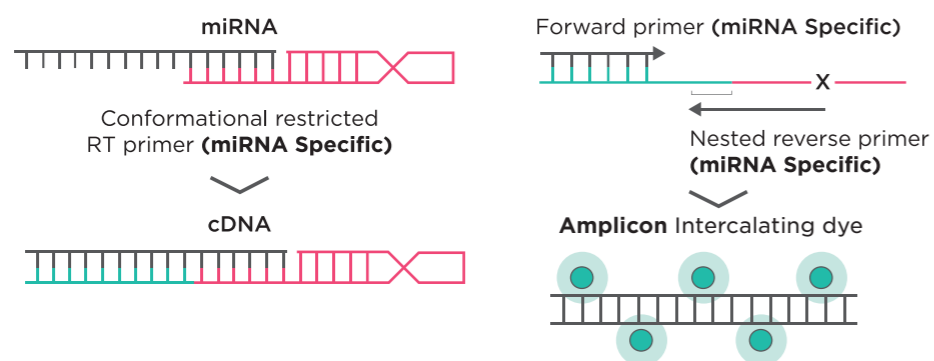
Convenient: Great User Experience

- ✓ Ready-to-use qPCR plate with pre-spotted primers
- ✓ Wet-lab validated assays
- ✓ Automated data analysis template
- ✓ Reagents provided in experimental proportion
- ✓ Spike-in RNAs and interplate PCR calibrators included



Ultrasensitive and Robust miRNA Detection

Achieve unparalleled sensitivity and specificity with wet-lab validated sequence-specific ID3EAL™ RT and qPCR forward and reverse primers.



ID3EAL™ assay primers are optimized by MiRXES' proprietary algorithm and wet-lab validated with synthetic miRNA templates and RNA from biological samples. Manufactured in ISO 13485 facility.

ID3EAL™ miRNA Knowledge Panel Profiling Service

The ID3EAL™ miRNA Knowledge Panel Profiling Service enables researchers to overcome time, resource and expertise challenges and generate high quality miRNA data for publishing in high impact journals.

→ Delivering Your microRNA Discoveries



ID3EAL™ miRNA Knowledge Panel Profiling Service

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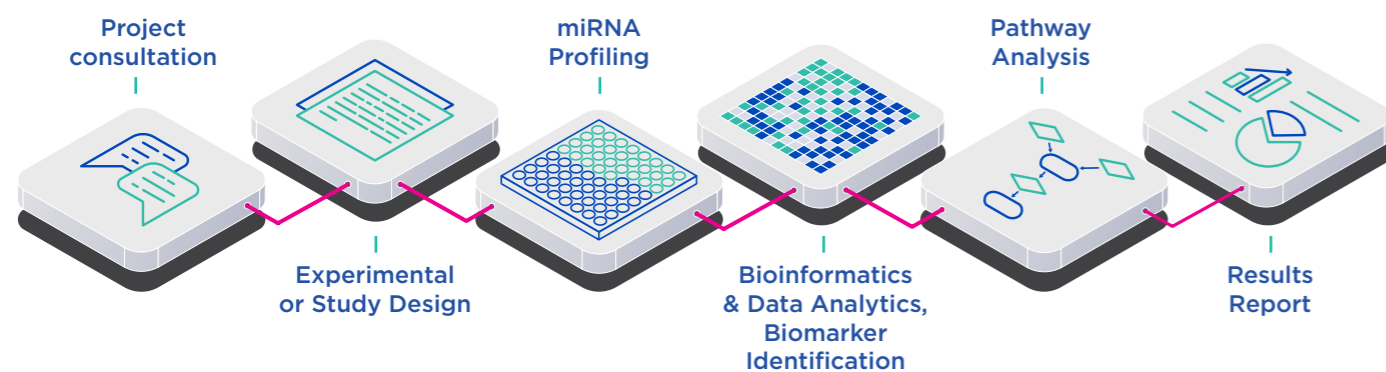
- ✓ Experienced Scientists with Expert Know-How
- ✓ High Quality Reliable and Reproducible Data
- ✓ Wide Dynamic Coverage - Over 7 logs concentration
- ✓ Stringent Quality Controls - Synthetic and biological
- ✓ Low Sample Volume - Low Sample Volume Requirement
- ✓ Publication-Ready Bioinformatics Analyses
- ✓ Data Confidentiality



Proprietary pre-analytical specimen quality check addresses largest source of variability in laboratory testing.

From Sample to Publication-Ready Results

Researchers may opt for selected service modules or engage our complete service workflow.

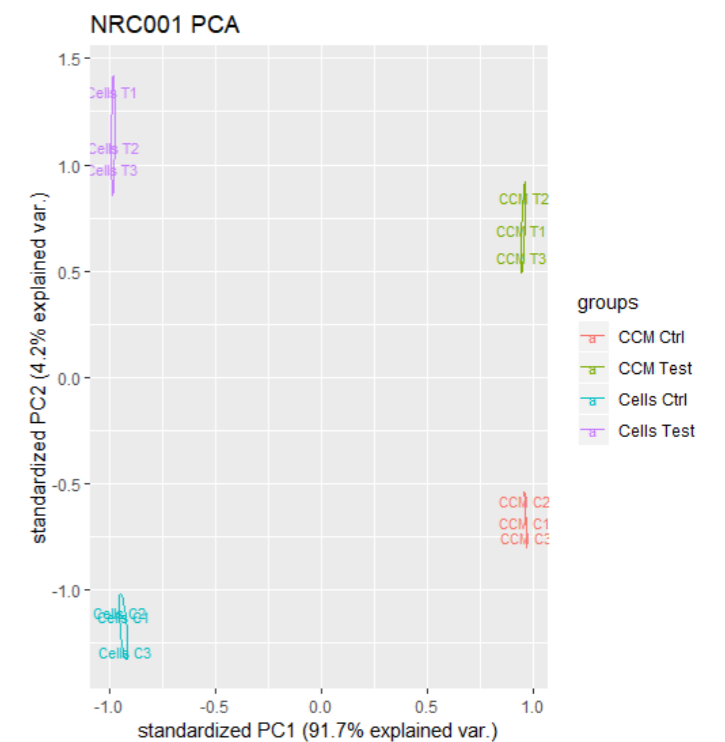


miRNA Expression Analyses by a MiRXES Partner Service Lab* using the ID3EAL™ miRNA Knowledge Panels.

PCA analysis of miRNA profiles show stratification into distinct sample types and groups

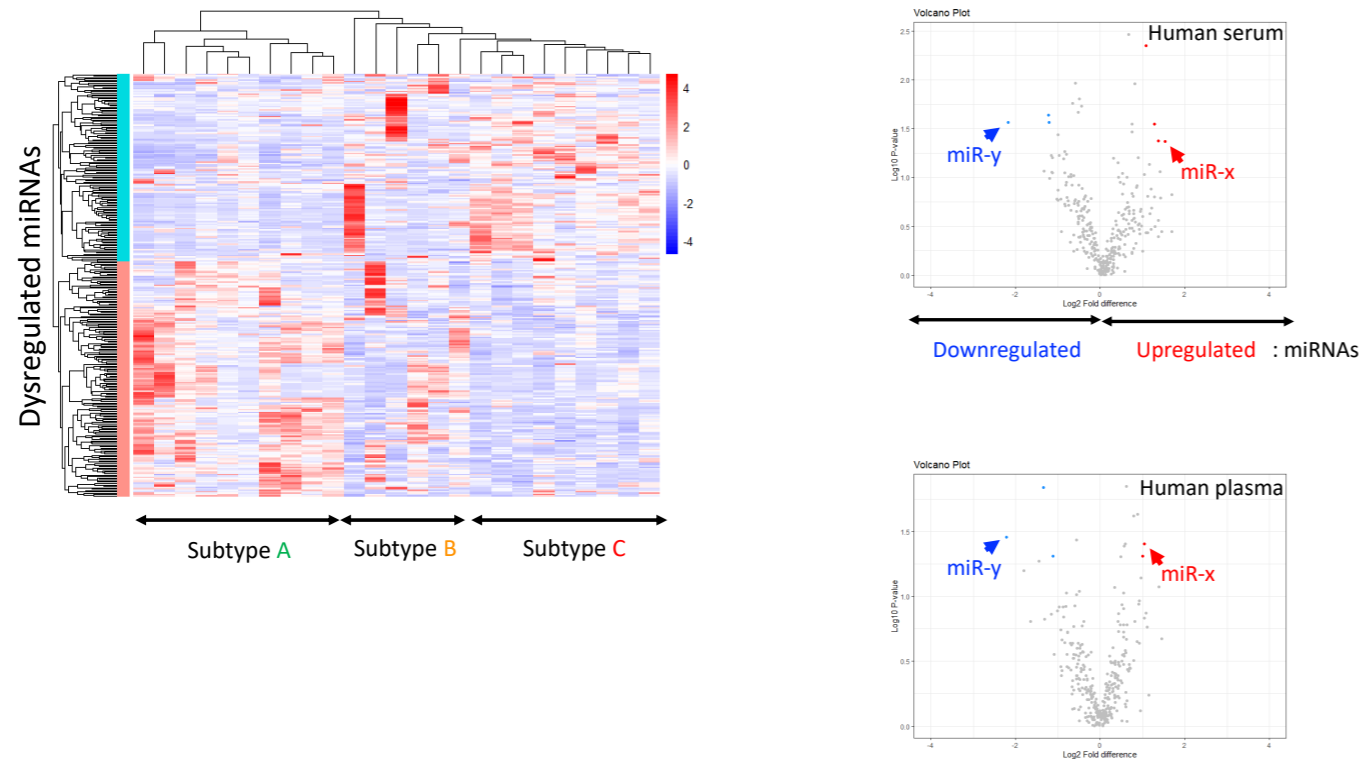
miRNA expression in cultured HCT116 cells and their spent cell culture media (CCM). Principle component analysis (PCA) of miRNA expression data showed clustering of biological replicates of the respective sample types and groups.

*The experiments and analyses were conducted by a MiRXES partner service lab, the National University of Singapore Yong Loo Lin School of Medicine ncRNA Core.



Clustering and Volcano plot analyses of blood cancer subtypes by miRNA profiling on serum or platelet-poor samples

Unsupervised hierarchical clustering of miRNA expression data stratified uterine cancer samples into various molecular subtypes. Volcano plots of miRNA expression in serum and PPP samples from the same patient revealed identical dysregulated miRNAs.



ID3EAL™ miRNA Profiling Panels

- ParanomiR Panel:** 376 disease-associated miRNAs selected from expert curation of miRNA databases, published literature and in-house research data.
- Biofluid Panel:** 176 miRNAs selected from in-house research of more than 20,000 human serum, plasma and urine specimens in both healthy and pathological conditions.
- Cancer Panel:** 352 miRNAs strongly associated with various cancer types and which regulate key onco- and tumor suppressor genes and pathways.

Standard Analyses

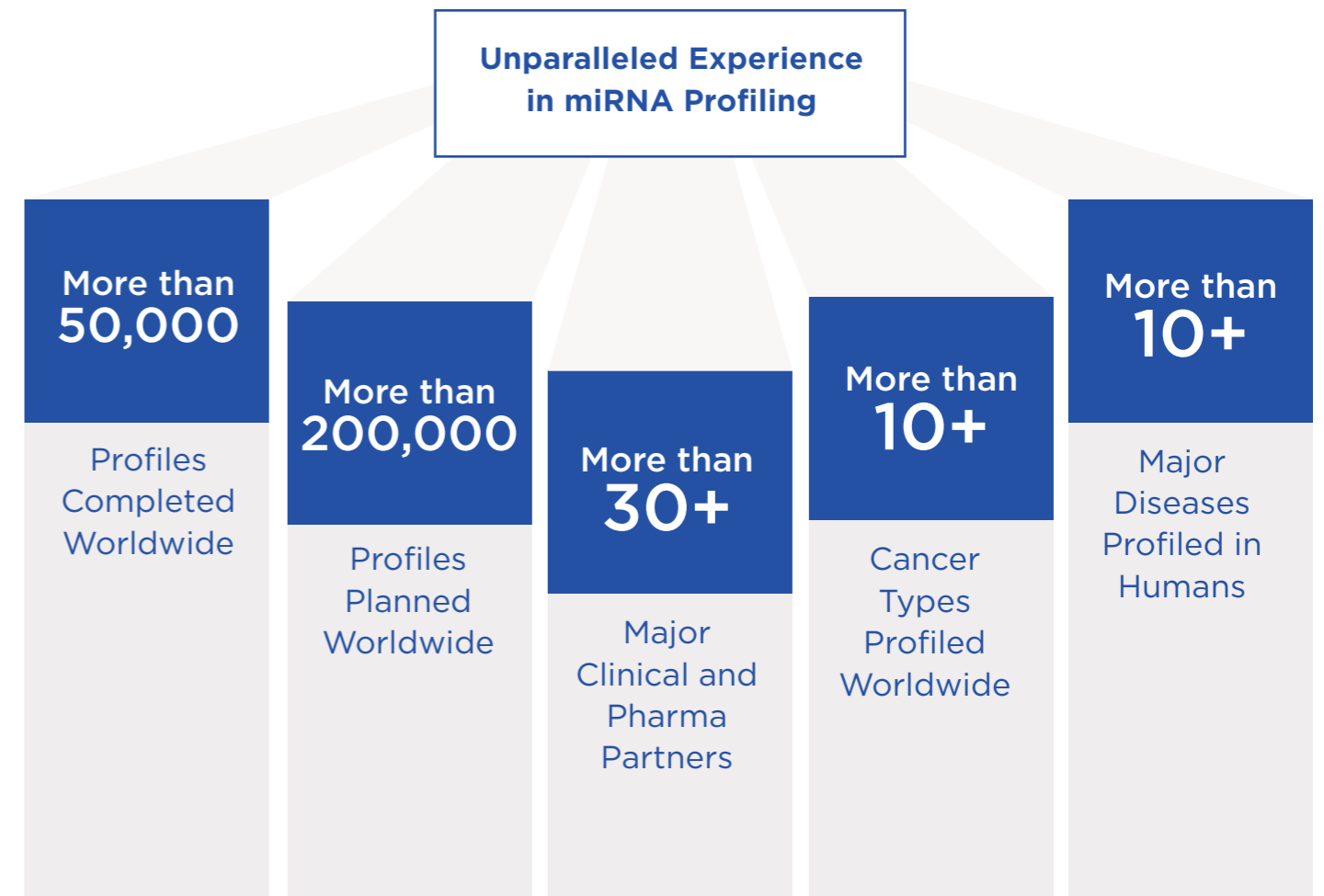
- Raw Data Cleaning • Normalization • Fold-change and p-values • Clustering, Principal Component Analysis • Volcano Plots • Gene Ontology on request

People, Experiences & Expertise

MiRXES scientists and collaborators from top academic and medical institutes have evaluated over 50,000 clinical samples in 30 disease areas and applications using the proprietary ID3EAL™ technology.

Ordering Information:

Product	Catalogue No.
ID3EAL PanoramiR miRNA Knowledge Panel	FGS0003
Panel Profiling Service - ID3EAL miRNA Knowledge Panel	SVC0006



Talk to Experts

Interested in learning more about our products and services? Our specialists are here to take the time to talk to you. From basic questions to complex inquiries, we're here to help!

Visit our website, send an email or simply pick up the phone and call us

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Sales: sales@mirxes.com
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