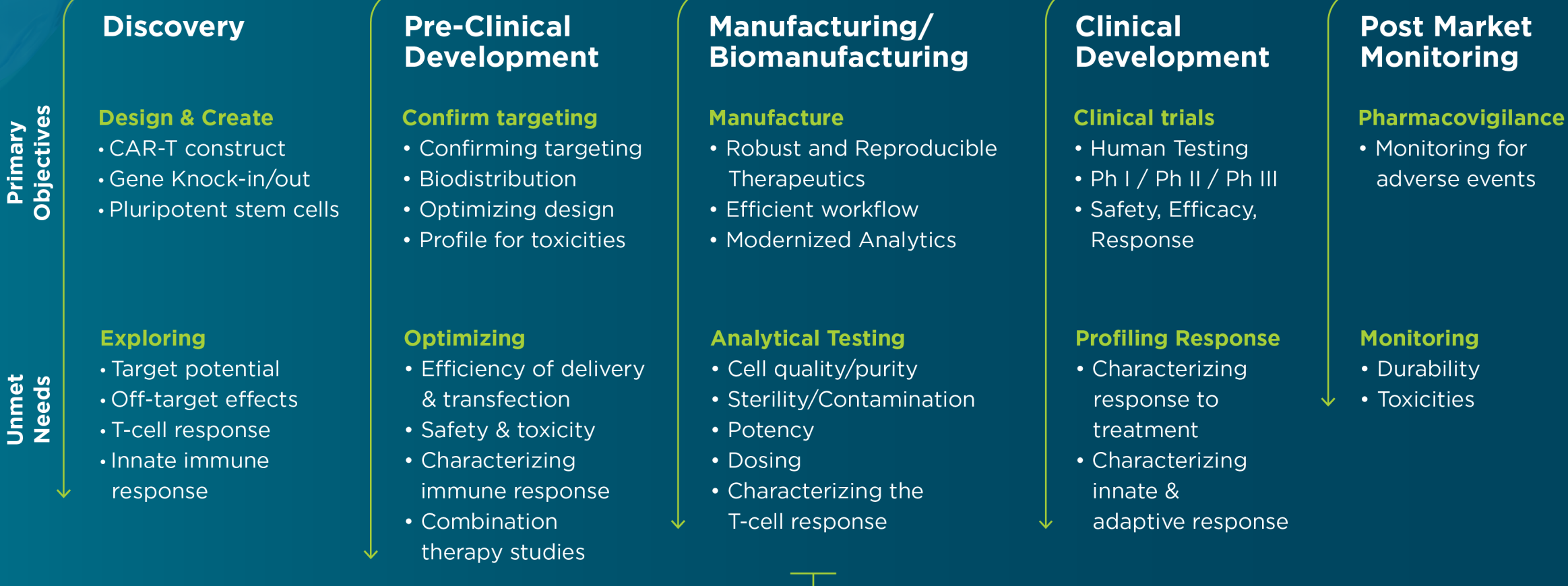


# Cell & Gene Therapy Solutions

## Addressing Needs Across the Drug Development Continuum



## Navigating The Many Challenges



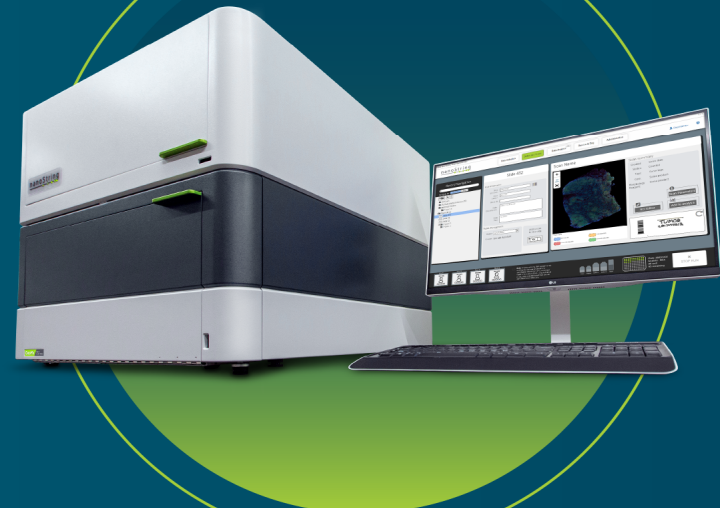
## Creating Novel Solutions

Three Platforms. Unlimited Potential



### nCounter Pro Analysis System

800+ plex pathway-based gene expression analysis in a single tube.



### GeoMx Digital Spatial Profiler

Morphological, spatial context for whole transcriptome and proteomics experiments from a single FFPE or Fixed/Fresh Frozen tissue section.



### CosMx Spatial Molecular Imager

Single cell profiling for RNA and proteins. Compatible with a single FFPE or Fixed/Fresh Frozen tissue section.

### Modernize Testing

- Improve time to results
- Characterize early and concurrently throughout drug development.
- Consolidate & customize assays

### Improve Product Quality

- Achieve consistent in-process results
- Design manufacturing efficiencies for speed
- Develop menu of assays using reliable platform
- Fully automated workflow

### Characterize upstream and downstream of manufacturing

- Identify the right drug target & candidate
- Discover biomarkers of response, and safety
- Accurately measure biodistribution and MOA with spatial platforms



### nCounter Pro

Fully automated workflow for rapid analytics



#### Simple

- 24 hour sample to data, 15 minutes lab time, and true multiplexing



#### High Quality

- Reproducible with over 6 logs dynamic range
- Limit of detection: 15 zeptomole



#### Secure

- Enables 21 CFR Part 11 environment
- State of the art encryption standards



#### Standardized

- Pre-built panels provide standardized tool for assay development
- Purpose driven content simplify assay development

## Data Integrity

The nCounter Pro has multiple systems in place that help ensure the integrity and security of your data.

State of the art encryption standards

Controlled Access

Enables a 21 CFR Part 11 Environment

Easy Networking

Protect User Data

## Modernize With Molecular Characterization

### Standardized Purpose-built Panels For Assay Development

#### nCounter CAR-T Characterization Panel

Allogenic-Autologous CAR-T Cell Therapies

- Cell Quality Purity
- Sterility Contamination
- Dosing Potency
- Transfection Confirmation
- TCR Diversity
- Toxicity

#### nCounter Stem Cell Characterization Panel

ISP, Mesenchymal Tissue Specific

- Pluripotency
- Sterility Contamination
- Differentiation Status
- Lineage Specification
- Stemness

#### nCounter Gene Therapy Optimization Panel

Viral and Non-viral

- Innate Immune Response
- Adaptive Immune Response
- Interferon Response
- Viral Integration
- Viral Secretion

## GeoMx Digital Spatial Profiler & CosMx Spatial Molecular Imager

Catalyze the next revolution Using Spatial Biology



#### High-plex

- Whole Transcriptome (GeoMx)
- 1,000-plex RNA (CosMx)
- 96+ plex protein (GeoMx and CosMx)

#### Multimic

- Simultaneous analysis of RNA and Protein with Spatial Proteogenomics

#### Morphologically resolved data

- Multicellular resolution: 20-200 cells (GeoMx)
- Single cell and subcellular resolution 1-10 cells (CosMx)
- Process up to 40 slides/week with GeoMx DSP

#### Novel Applications

- Biodistribution
- Biomarker Discovery
- Treatment Response
- Toxicity and Safety
- Transfection Efficacy
- Receptor-ligand and cell-cell interactions
- Phenotyping
- Transgene detection in cellular and subcellular context

## White Glove Support Through Assay Deployment

Translational scientist with expertise across all areas of Cell and Gene Therapy

Specialized Data Analysis Team to review and interpret validation data

Assay design with customization

To learn more, visit [nanosttring.com](http://nanosttring.com)