

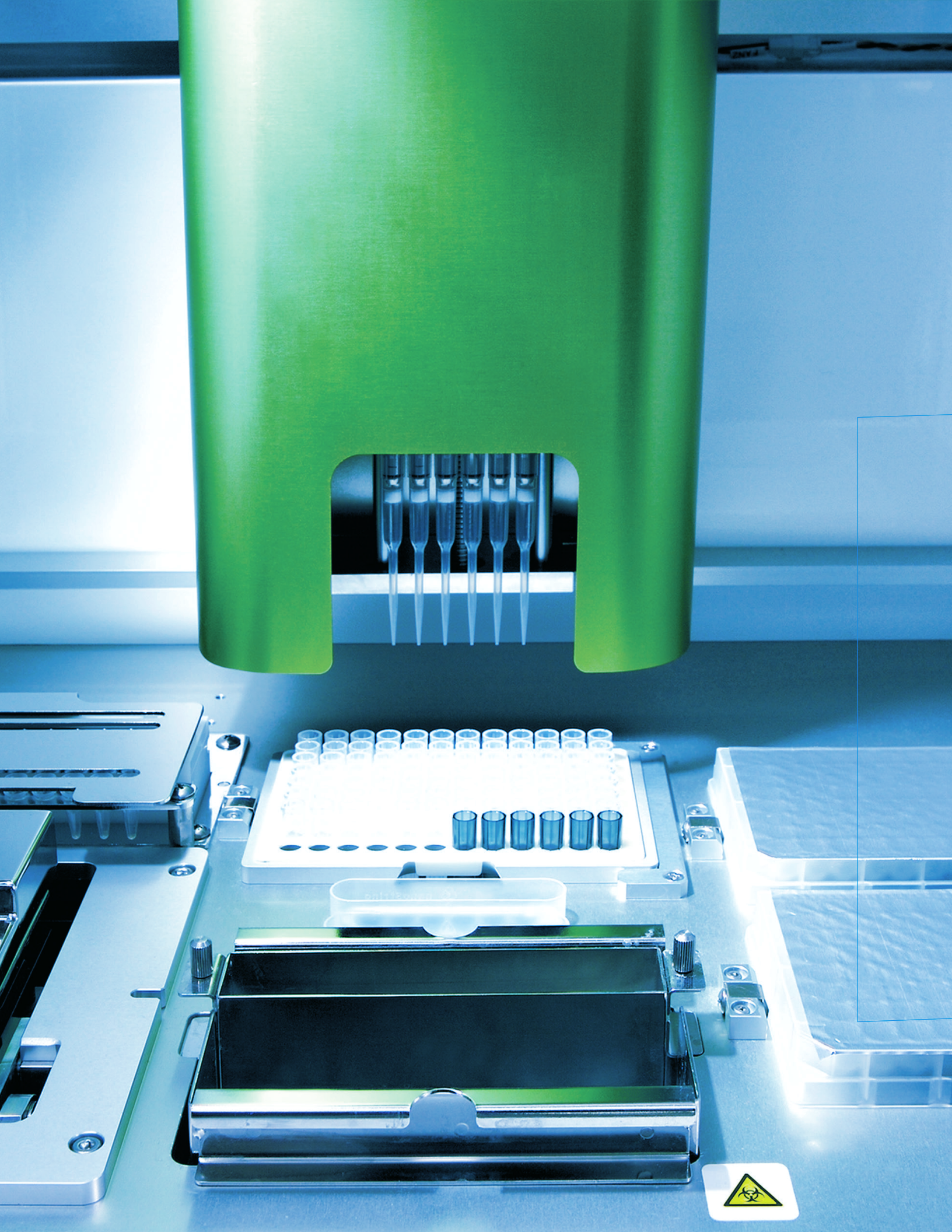


BRUKER SPATIAL BIOLOGY

nCounter® Analysis System

Accelerate Your Biomarker Validation and Development

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.



Gene expression you can Count On.

Accelerate your biomarker discovery and development with confidence and peace of mind. With robust performance on even the most difficult sample types, multiomics capabilities, and unparalleled flexibility in content and throughput, you can rapidly translate basic science discoveries into actionable clinical insights with the nCounter® Analysis System.

1

Robust Performance

- Gold standard technical reproducibility resulting from direct digital detection (no technical replicates needed)
- Dynamic range of five logs
- Compatibility across a wide variety of sample types, including difficult FFPE, blood, and biofluids
- Innovative technical design eliminates need for enzymatic steps, amplification, cDNA conversion, or complicated sample prep
- Over 8,000 peer-reviewed publications to date prove nCounter is highly trusted and ultra-productive in the lab

2

Flexible Assays

- Generate 800+ plex data covering highly relevant biology for targeted applications
- Utilize one easy workflow to analyze both RNA and protein from the same sample for multiomics analysis
- Extensive menu of ready-to-ship panels designed with input from industry leading experts in the field
- Expert bioinformatics team available to assist with custom panel design, including gene selection
- Option to customize existing panels with up to 55 user-defined targets of interest
- Overlapping content with Bruker Spatial Biology's spatial technologies offers broad biological insights from bulk to single cell spatial analysis

3

Efficient Workflow

- Walk-away automation and minimal hands-on time (<15 minutes on most assays)
- Rapid turnaround time with sample to answer in <24 hours for RNA or Protein only assays, and <48 hours for multiomics assays
- Highly scalable systems have option to increase throughput with additional Prep Stations
- Easy data analysis and minimal storage requirements eliminate the need for bioinformatics support or expensive data storage
- Screen up to 96 samples per run with PlexSet™ chemistry

Robust Performance

Gold Standard FFPE Performance

Unique Chemistry

The key to nCounter generating highly robust data lies in the technical design of the chemistry. nCounter technology uses unique optical barcodes that hybridize to each target to enable digital counting of individual oligonucleotides without any enzymatic steps. Each barcode is made up of six fluorophores enabling highly multiplexed, single molecule counting.

Chemistry Highlights

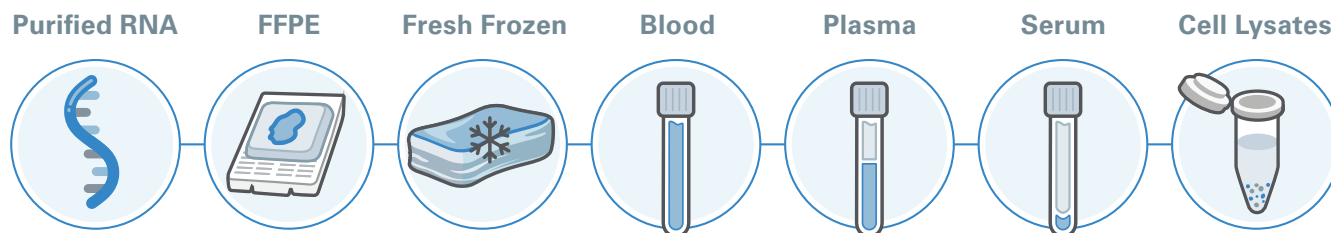
- No RT, enzymatic steps
- No technical replicates needed
- Superior performance on degraded samples

Elegant Chemistry Design



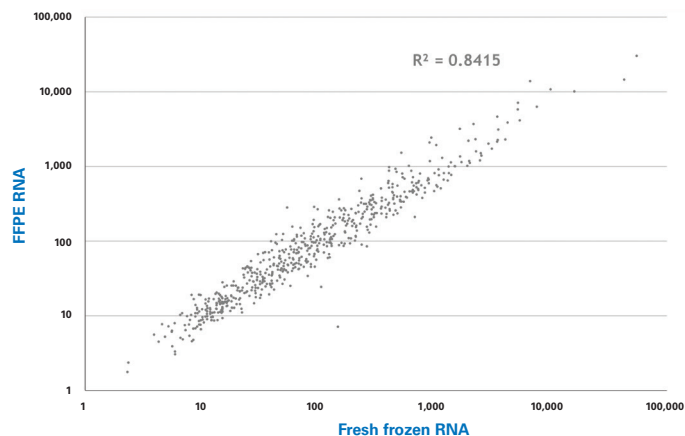
Broad Sample Compatibility

nCounter is compatible with most sample types, even decades old FFPE. It produces high quality data that would otherwise be difficult to produce with technologies that rely on high sample input. Consistent results can even be generated for longitudinal studies with a high degree of confidence on clinical-grade (often degraded) samples.



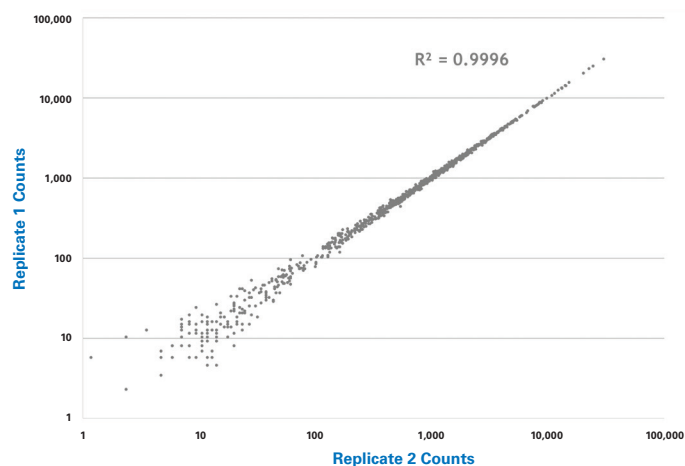
Superior performance on FFPE tissue sections

Since nCounter probes only require a 100 base pair region for hybridization, high quality results are produced even from degraded samples.



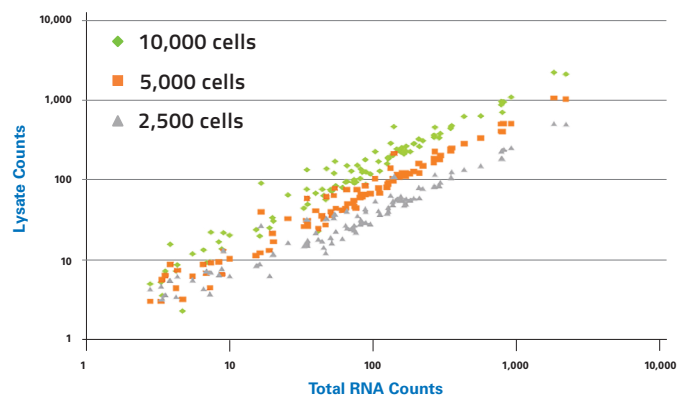
Reproducibility over a wide dynamic range

Direct, digital counting removes potential sources of variability from reverse transcription and amplification, enabling high precision and reproducibility over a wide dynamic range. Save reagents, sample, and money by eliminating technical replicates and confidently detect both high and low expressing genes.



Compatible with cell lysates

Zero enzymatic steps mean you can confidently analyze samples directly from cell lysates without any RNA purification, saving time and reagents.



nCounter Publication Library

There are over 8,000 publications written by researchers who have used nCounter in their labs. Filter by application, sample type, analyte, and more at brukerspatialbiology.com/resources/publications

Flexible Assays

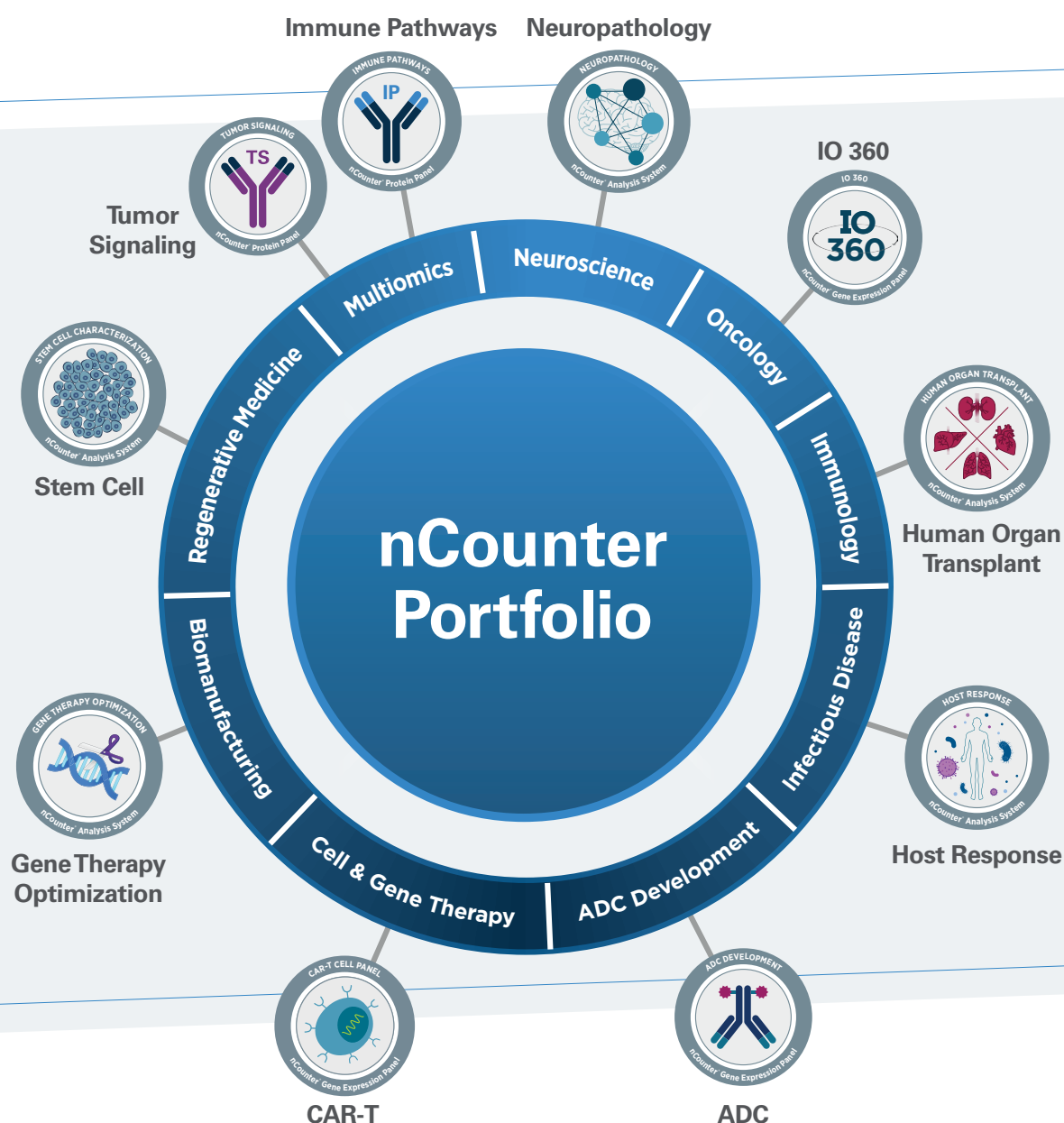
Comprehensive Panel Menu

Over 25 off-the-shelf gene expression panels, along with new protein panels to enable multiomics capabilities, are available for a wide variety of biological pathways and research areas. All panels are created with input from industry experts and current research topics and are updated regularly.

Panel Pro Selection Tool

Check out the Panel Pro Selection Tool to compare panel content and identify the right panel for your research.

<https://brukerspatialbiology.com/products/ncounter-assays-panels/panel-selection-tool/>



nCounter Multiomics Solutions

RNA + Protein

Measure RNA and protein together from the same FFPE sample - in a simple three-step workflow with results in just three days.

With nCounter multiomics assays, researchers can simultaneously quantify RNA expression and protein from the same FFPE sample, enabling a more complete view of biological mechanisms without the need for amplification or complex library prep.

Rapid, easy multiomics for actionable biology

- **Combine RNA and protein data on a single instrument for a unified molecular readout**

Interrogate mRNA and protein biomarkers together to understand how transcriptional programs align or diverge from functional protein states.

- **Leverage rapid, robust workflows for translational research**

The chemistry's tolerance to degraded RNA allows researchers to unlock data from valuable archived FFPE repositories for biomarker studies, retrospective analyses, and companion diagnostic discovery.

- **Perform simple multiomics data analysis with the new nCounter pipeline**

Simplify RNA and protein data analysis with an easy-to-use pipeline that delivers QC, statistics, and publication-quality figures.

See why looking at two analytes is better than just one

- **Analyze immune response and tumor signaling**

Quantify immune cell lineage genes, checkpoint markers, cytokines, signaling mediators, and corresponding protein markers for a more complete view of immune infiltration and activation states.

- **Assess individual proteins or pathway activation**

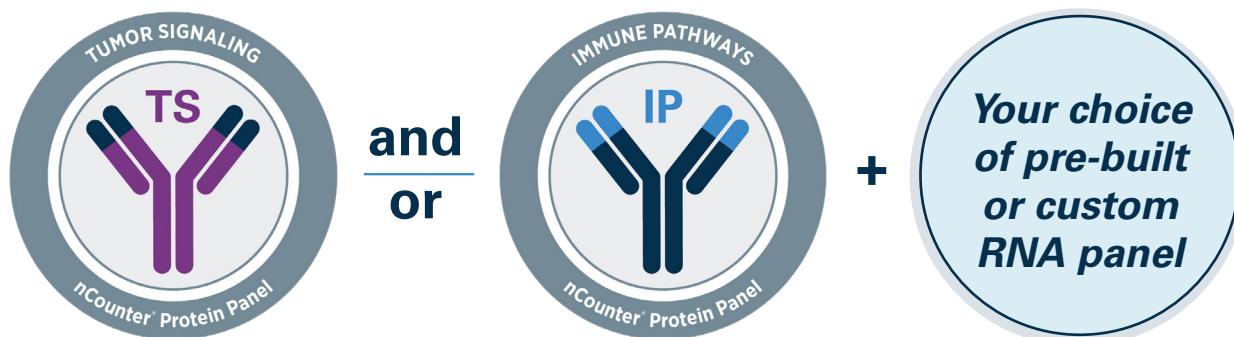
Measure transcriptional pathway signatures while simultaneously validating downstream protein-level effects, enabling clearer insight into drug response, resistance, and pathway modulation.

- **Measure post-translational modifications for functional protein analysis**

Get a direct readout of protein function and signaling activity, linking expression to phenotype and enabling deeper biological insights beyond total protein levels.

Curated content designed with purpose

The [nCounter Protein Panels](#) have been carefully curated to cover critical research areas. They include selected antibodies against key biomarkers and disease-relevant targets, giving you the flexibility to choose the panel that best matches your experimental needs. These stackable 200 to 300 plex protein panels can be combined with any [nCounter Gene Expression Panel](#).



Custom Solutions

Researchers have the flexibility to tailor gene expression assay content to meet individual project needs.

Build your own custom gene expression

nCounter is compatible with most sample types, even including decades old FFPE. It produces high quality data that would otherwise be difficult to produce with technologies that rely on high sample input. Consistent results can even be generated for longitudinal studies with a high degree of confidence on clinical-grade (often degraded) samples.

**Panel Plus:
Customizeable
Add-on to a Panel**

OR

**Build Content that is
Customized for Any
Gene, Any Organism**

**Gene
Expression
Panel**



**Up to 55
User-defined
Targets**



**Custom
CodeSets**

Turnkey Solution for Any Project

- Maximum target number: 800
- Daily sample throughput 24-96

Elements™

Increased Flexibility for Smaller Projects

- Maximum target number: 216
- Daily sample throughput: 24-96
- Optimized for validation projects

PlexSet™

High-Throughput Chemistry

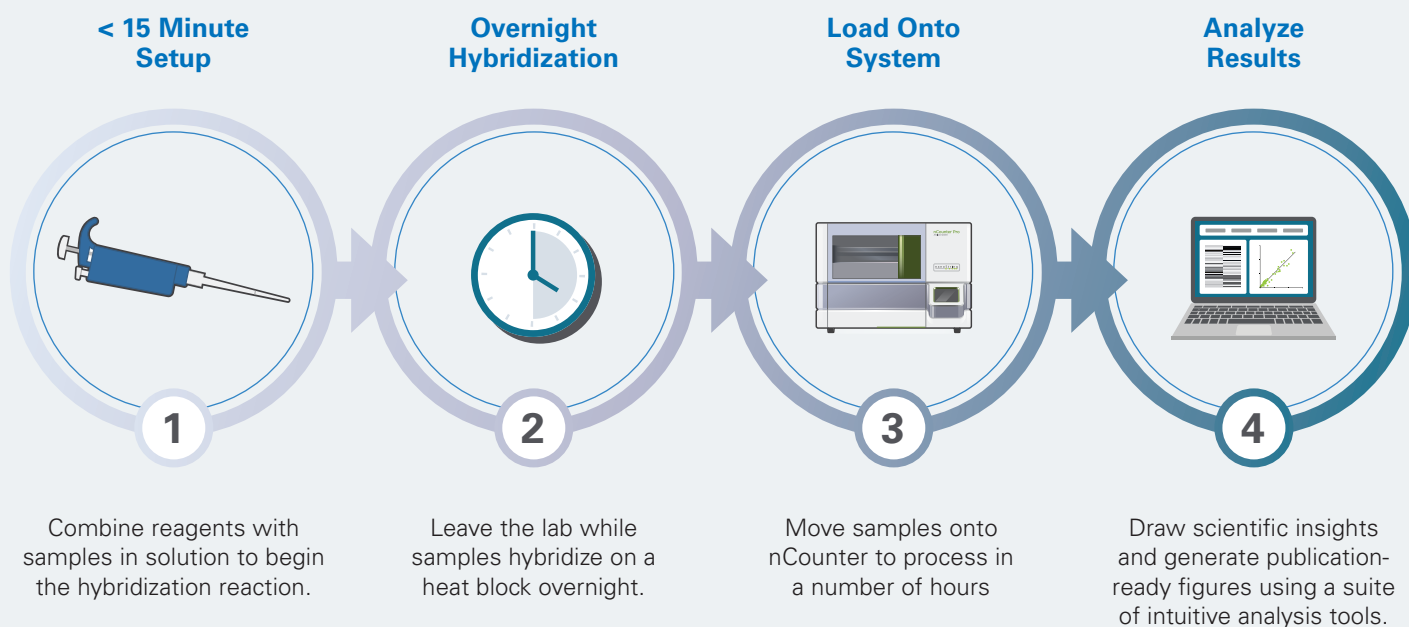
- Maximum target number: 96
- Daily sample throughput: 192-1,152
- Optimized for screening projects

Efficient Workflow

Scalable, Automated Time Saver

nCounter's seamless workflow enables you to regain independence over your research. Time spent on pipetting, monitoring systems, and getting lost in data can be spent doing what matters most – advancing your research. The workflow features a limited number of steps, reducing potential sources of variability, improving the reliability of results, and making training technicians easy.

Four Simple Steps Produce a Huge Amount of Data



Sample Throughput

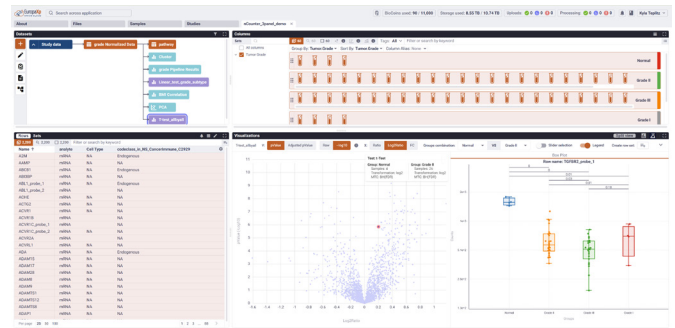
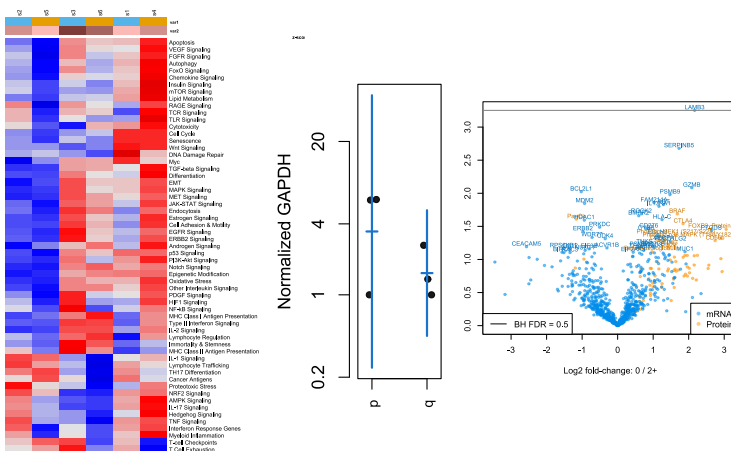
	1 Run/day	1 Run/day	3 Runs/day	3 Runs/day
Samples per Lane	Pro: 1 Prep Station	Pro: 2 Prep Stations	Pro: 1 Prep Station	Pro: 2 Prep Stations
1	12	24	36	72
8*	96	192	288	576

*With PlexSet reagents

Data Analysis

Multiple Options for Your Next Discovery

Bruker Spatial Biology offers a suite of intuitive analysis tools that enable you to gain insights from your data and share publication-quality figures and statistical outputs faster than ever.



nCounter Data Analysis Pipeline

The nCounter Data Analysis Pipeline (DAP) is our open-access analysis platform for all your nCounter data analysis needs. At your fingertips will be the power to run quality control, normalization, and statistical analysis, and produce publication-quality figures – all without the need for bioinformatics expertise. This tool is ideal for researchers who prefer an on-premises option with advanced analysis capabilities.

- Intuitive and easy-to-use interface
- Designed by Bruker Spatial Biology scientists
- Multiomics compatible with built-in modules for both RNA and Protein analysis (or combined)
- Tunable normalization and fold-change measurements
- Statistical significance testing

Learn more about the nCounter Data Analysis Solutions:

<https://brukerspatialbiology.com/products/ncounter-analysis-system/ncounter-analysis-solutions/>

EuropaXp Omics Cloud

EuropaXp OmicsCloud is a Bruker-approved cloud partner for nCounter Data Analysis, developed by EuropaDX for scalable, collaborative multiomics research workflows. Designed to help researchers move from raw data to biological insights faster, OmicsCloud combines intuitive no-code analysis with interactive visualization tools and direct traceability back to raw data and statistical outputs. OmicsCloud is ideal for researchers working across large datasets, multiple omics technologies, and distributed collaborative teams.

Researchers can rapidly perform:

- Quality Control
- Normalization & Filtering
- Principal Component Analysis
- Clustering
- Pathway Analysis
- Cell Type Profiling
- Differential Expression
- Gene Set Analysis
- Annotation
- Correlation Analysis
- Multiomic and Multi-Technology Comparisons
- Public Data Import
- Generate annotations with Smart Annotation

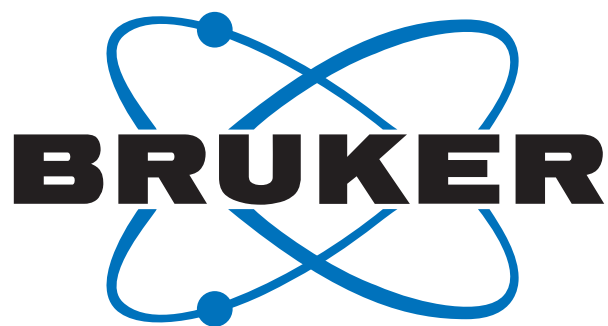
Data Analysis Services (DAS) for large projects are also available. For more information please contact: DAS@bruker.com

nCounter Analysis System

Product Specifications

Feature	Specification
	nCounter Pro Analysis System
Level of multiplexing	800+ targets for RNA, 500+ targets for Protein
Recommended amount of starting material (dependent on assay and sample type)	RNA: 100 ng DNA: 300 ng Protein: Whole slide
Sample types supported	Total RNA generated from FFPE, Fresh Frozen, Blood, Plasma, & Serum Protein generated from FFPE Direct Cell Lysates (in appropriate buffers) also supported
RNA limit of detection 0.5 fM spike-in control	15 zeptomole spike in control in 15 µL hybridization
RNA fold change sensitivity	> 1.5-fold (if > 5 copies per cell) >2-fold (if > 1 copy per cell) $R^2 > 0.95$
Spike in correlation	$R^2 > 0.95$
Linearity	Linear regression correlation coefficient $R^2 > 0.95$
Linear dynamic range	2×10^2 to 1×10^8 total counts
Controls	Assay dependent
Hands-on time	15 min
Processing time	Prep Station: 12 samples per 2.5 hours Digital Analyzer: 12 samples per 2.7 hours
Throughput	12-576* (6 cartridges x 3 runs/day)
Expandable throughput	Yes, with additional Prep Station
Enterprise package features	Yes
Dimensions	Prep Station: 67 x 89 x 63 cm Digital Analyzer: 66 x 66 x 48 cm
Weight	Prep Station: 120 kg Digital Analyzer: 67 kg

* Option to increase capacity by adding a second Prep Station; accelerate cell line screening and high-throughput applications by running multiple samples per lane with nCounter PlexSet reagents



Bruker Spatial Biology | For more information, visit brukerspatialbiology.com/ncounter

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