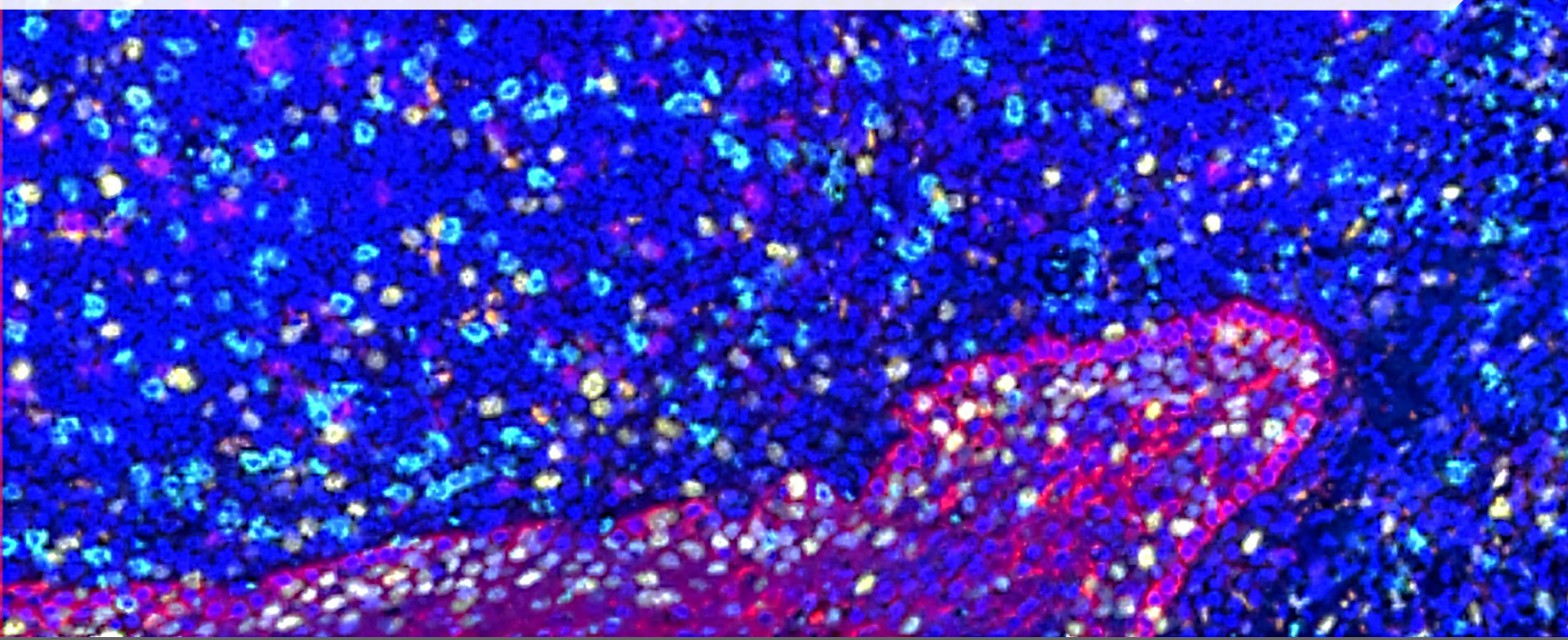
Aliri
BIOANALYSIS

BROCHURE

READY TO USE BIOMARKER PANELS

Immunology & Inflammation Collection



From disease onset to therapeutic response, **Immunology and Inflammation research increasingly relies on biomarker data that must be robust, translatable, and biologically meaningful**. Clinicians and translational teams now require the simultaneous assessment of growing numbers of biomarkers to better capture disease complexity, patient heterogeneity, and treatment response.

At the same time, **understanding biological processes within the tissue microenvironment has become essential**, as spatial context and cellular interactions play a critical role in immune-driven pathologies. Yet developing and validating biomarker panels that combine scale and translational relevance remains time-consuming, costly, and scientifically challenging.

Over the last two decades, Aliri has partnered with Immunology/Inflammation researchers to develop and apply high-quality biomarker panels across translational and clinical studies. Leveraging multiple advanced analytical platforms, we enable the detection of anything from a single biomarker to several hundred markers, across tissue sections (imaging/profiling), tissue homogenates, cell suspensions, and biological fluids.

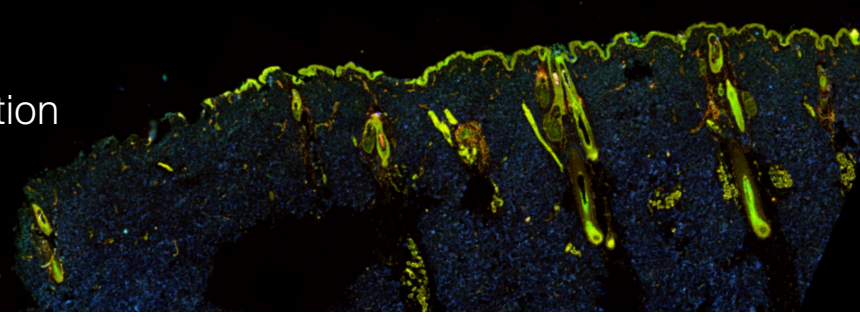
To expedite your research and minimize development costs, we have translated our years of immunology and inflammatory biomarker expertise into 23 ready-to-use panels. These panels are designed to address key disease-relevant questions about disease onset, progression, and response to therapy, including for example:

- Immune cell activation and differentiation
- Cytokine and chemokine signaling
- Tissue inflammation
- Pathway dysregulation
- Patient stratification

What truly sets Aliri apart is our ability to **customize with precision**. In addition to our ready-to-use panels, we offer **more than 200 standalone biomarkers** and the flexibility to add markers of interest or design fully bespoke panels tailored to your specific scientific objectives.

Every biomarker is carefully selected and rigorously verified for its intended biological context. While all markers included in the panels are precisely targeted, their actual detection may vary depending on tissue type, disease state, and marker abundance. **Aliri's expertise ensures robust assay design and scientifically sound interpretation, so you can move forward with confidence in your data**.

Immunology & Inflammation Collection



HUMAN SOLID TISSUE IMAGING & PROFILING PANELS

MOLECULES	PANEL NAME	PLEX	APPLICATION	PLATFORM	PAGE
Transcripts	Whole Transcriptome Atlas	18,000	Biomarker discovery & disease mechanisms	GeoMX DSP	4
	Whole Transcriptome	18,000	Biomarker discovery & disease mechanisms	Visium	5
	Human Immune Response	1,800	Immune and inflammatory mechanisms discovery	Visium	6
	Immune Pathways	84	Immune activity and inflammation characterization	GeoMX DSP	7
Proteins	Discovery Proteome Atlas	1,200	Biomarker discovery & pathway analysis	GeoMX DSP	8
	Immune Cell	20	Immune Profiling & MoA	Imaging Mass Cytometry	9
	Fibrosis	20	Disease Biology & MoA	Imaging Mass Cytometry	10
	TILs	18	MoA	Imaging Mass Cytometry	11
	T Cell Exhaustion	14	MoA	Imaging Mass Cytometry	12
Metabolites	Amino Acids	20	Amino acid metabolism, Tissue heterogeneity, Therapy response, MOA	Mass Spectrometry Imaging	13
	Glycolysis	9	Tissue metabolism, Resistance, MoA	Mass Spectrometry Imaging	14
	Krebs Cycle	9	TCA metabolism, Tissue heterogeneity, Therapy response, MOA	Mass Spectrometry Imaging	15
	ATP Pathway	5	Energy metabolism, Tissue heterogeneity, Therapy response, MoA	Mass Spectrometry Imaging	16
Lipids	Lipidomics (Negative)	166	Tissue metabolism, Resistance, MoA	Mass Spectrometry Imaging	17
	Lipidomics (Positive)	84	Tissue metabolism, Resistance, MoA	Mass Spectrometry Imaging	18

HUMAN FLUIDS, SOLID TISSUE HOMOGENATES, & CELL SUSPENSION PANELS

MOLECULES	PANEL NAME	PLEX	APPLICATION	PLATFORM	PAGE
Transcripts	Autoimmune Discovery	770	Biomarker discovery & MoA	nCounter	19
	Immunology	579	Immune response characterization & MoA	nCounter	20
	Human Inflammation	249	Biomarker discovery & MoA	nCounter	21
Proteins	Next Generation Immune Profiling	46	Immune Profiling & MoA	CyTOF	22
	Immune Profiling	30	Immune Profiling & MoA	CyTOF	23
	Myeloid & B Cell Subsets	14	Innate immunity and B-cell biology characterization	CyTOF	24
	T Cell Costimulation and Exhaustion Activation	12	T-cell functional modulation characterization	CyTOF	25
	T Cell Activation	11	T cell characterization	CyTOF	26

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WHOLE TRANSCRIPTOME ATLAS PANEL

Profiling Panel:

The GeoMx DSP Whole Transcriptome Atlas (WTA) is a spatial transcriptomics assay that enables unbiased RNA profiling of approximately 18,000 human genes from spatially defined regions of interest within tissue sections. Using UV-photocleavable probes and NGS readout, it preserves spatial context while providing whole-transcriptome coverage, making it well suited for biomarker discovery and translational research.

Tissue preparation:

FFPE and frozen tissue samples.

Included in the Panel:

BIOLOGICAL PATHWAY	NUMBER OF BIOMARKERS
Immune cell signaling and activation	**18,000 Genes**
Cytokine and chemokine signaling	
Tumor proliferation and survival	
Stress and cell death pathways	
Stromal and extracellular matrix biology	
Antigen presentation and immune regulation	

WHOLE TRANSCRIPTOME PANEL

Imaging Panel:

Visium HD Whole Transcriptome enables high-resolution spatial gene expression profiling across tissue sections, measuring the whole transcriptome (~18,000 human genes) while preserving precise spatial location at near-cellular resolution. It allows researchers to map gene expression and biological pathways directly onto tissue architecture.

Tissue preparation:

FFPE and frozen tissue samples.

Included in the Panel:

BIOLOGICAL PATHWAY	NUMBER OF BIOMARKERS
Immune cell signaling and activation	**18,000 Genes**
Cytokine and chemokine signaling	
Tumor proliferation and survival	
Stress and cell death pathways	
Stromal and extracellular matrix biology	
Antigen presentation and immune regulation	

HUMAN IMMUNE RESPONSE PANEL

Imaging Panel:

The Human Immune Response Panel is a targeted spatial transcriptomics panel designed to profile ~1,800 immune- and inflammation-related genes while preserving spatial context within tissue sections. The panel focuses on the most biologically and clinically relevant pathways of innate and adaptive immunity, enabling high-resolution mapping of immune activity, inflammatory signaling, and immune–tissue interactions.

Tissue preparation:

FFPE and frozen tissue samples.

Included in the Panel:

BIOLOGICAL PATHWAY	NUMBER OF BIOMARKERS
Cytokine & Chemokine Signaling	**1,800 Genes**
Interferon Signaling	
Innate Immune Activation	
Adaptive Immune Activation (T/B cells	
Antigen Presentation	

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IMMUNE PATHWAYS PANEL

Profiling Panel:

The GeoMx DSP Immune Pathways Panel is a targeted spatial transcriptomics 84-plex assay optimized to profile key aspects of the immune response, tumor microenvironment, and inflammation from a single tissue section with spatial resolution.

Profiling Panel:

FFPE and frozen tissue samples.

Included in the Panel:

BIOLOGICAL PATHWAY	NUMBER OF BIOMARKERS
Global Immune Response	**30-35**
Microenvironment Immune Activity	**20-25**
Immune Effector Functions	**10-15**

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DISCOVERY PROTEOME ATLAS PANEL

Profiling Panel:

The GeoMx Discovery Proteome Atlas (DPA) is a high-plex, antibody-based spatial proteomics panel comprising over 1,200 pre-validated human protein targets. Protein expression is quantified within user-defined regions of interest, which can range from multicellular regions down to single-cell–scale ROIs, depending on tissue architecture. This enables discovery-level spatial proteomics across immune and microenvironment pathways and can be integrated with GeoMx RNA assays within the same regions.

Tissue preparation:

FFPE and frozen tissue samples.

Included in the Panel:

BIOLOGICAL PATHWAY	NUMBER OF BIOMARKERS
Immune cell activation and signaling	**250-300**
Cytokine and inflammatory signaling	**150-200**
Stromal and extracellular matrix biology	**150-200**
Cell stress, apoptosis, and cell death	**120-160**
Angiogenesis and vascular biology	**89-120**
Cell adhesion, migration, and invasion	**120-160**
Post-translational modifications (phospho, glyco, ubiquitin, etc.)	**130+**

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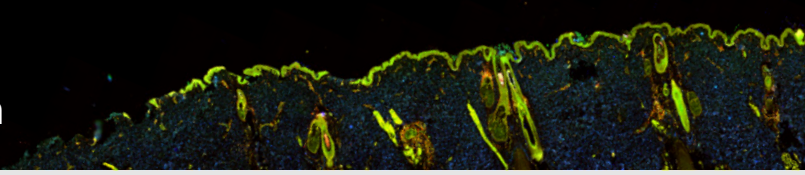

IMMUNE CELL PANEL

Imaging Panel:

The imaging mass cytometry (IMC) Immune Cell Marker panel characterizes the major immune cell lineages and their activation states in tissue.

The panel captures

- General Immune Cell Content
- T cell Subsets
- B cells
- Innate & Myeloid cells
- NK cells
- Immune Checkpoints / Activation

Tissue preparation:

FFPE tissue samples.

Included in the Panel:

20 BIOMARKERS			
CD45	**CD14**	**CD3**	**CD15**
CD4	**CD56**	**CD8**	**CD57**
CD20	**PD-1**	**CD79a**	**PD-L1**
CD68	**TIM-3**	**CD163**	**LAG-3**
CD11c	**ICOS**	**CD11b**	**OX40**

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FIBROSIS PANEL

Imaging Panel:

The imaging mass cytometry (IMC) Fibrosis panel characterizes the fibrotic niche, specifically the interplay between fibroblasts, extracellular matrix remodeling, vasculature, immune infiltration, and epithelial integrity.

The panel captures

- Fibroblast Activation & ECM Remodeling
- Epithelium Integrity & Damage
- Immune Infiltration in Fibrotic Tissue
- Vascular Remodeling
- Stromal Architecture
- Cell Proliferation & Apoptosis

Tissue preparation:

FFPE tissue samples.

Included in the Panel:

20 BIOMARKERS			
Podoplanin	**COMP**	**CD14**	**ki67**
CD16	**CD3**	**CD11b**	**LoxL2**
CD45	**HLA-DR**	**DPT**	**PDGFR alpha**
FoxP3	**α-SMA**	**E- cadherin**	**CD68**
SPARC	**Collagen Type I**	**CD20**	**CD31**

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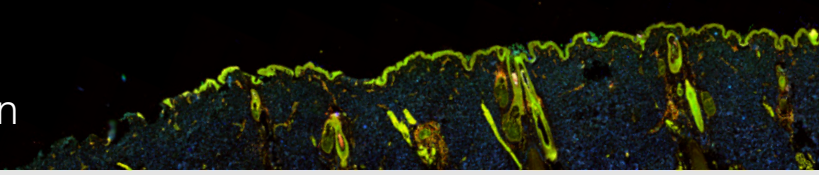

TILs PANEL

Imaging Panel:

The imaging mass cytometry (IMC) TILs panel enables detailed characterization of infiltrating lymphocytes by assessing T-cell abundance, functional activation, exhaustion states, and cytotoxic activity within the tumor microenvironment.

The panel captures

- Total T cell infiltration
- T-cell activation & function
- T-cell exhaustion / immunosuppression

Tissue preparation:

FFPE tissue samples.

Included in the Panel:

16 BIOMARKERS			
HLAABC	**CD3**	**HLADR**	**CD68**
PanCK	**CD56**	**Collagen Type I**	**Granzyme B**
CTLA4	**CD8a**	**Lag3**	**FoxP3**
CD28	**CD20**	**PD-1**	**CD86**

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T CELL EXHAUSTION PANEL

Imaging Panel:

This imaging mass cytometry (IMC) T-cell exhaustion panel characterizes exhausted, dysfunctional, and checkpoint-high T cells and mapping inhibitory immune pathways within the tumor microenvironment.

The panel captures

- Immune Checkpoint Inhibition / T-cell Dysregulation
- Effector Function / Cytotoxicity
- Activation and Proliferation
- T-cell Identity & Subsets

Tissue preparation:

FFPE tissue samples.

Included in the Panel:

14 BIOMARKERS			
PD-1	**IL2**	**Lag3**	**CD4**
TIM3	**CD3**	**INF gamma**	**CD25**
TNF alpha	**iCOS**	**Granzyme B**	**CD127**
CD160	**CTLA4**		

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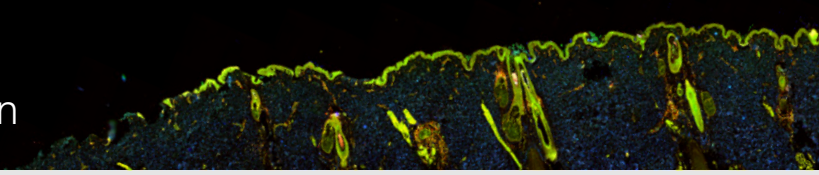

AMINO ACIDS PANEL

Imaging Panel:

The Amino Acid Panel is a Mass Spectrometry Imaging (MSI) solution designed to spatially profile key metabolic pathways involved in immune and inflammatory processes. By enabling the visualization of amino acid metabolism directly within intact tissues, this panel provides critical insights into immune cell activation, differentiation, and functional states within inflammatory microenvironments. It supports the study of immune-driven diseases by revealing tissue-specific metabolic adaptations associated with inflammation, immune regulation, and chronic immune activation. This panel is particularly well suited for investigating mechanisms of action of immunomodulatory therapies, assessing treatment response, and identifying spatial metabolic biomarkers linked to immune and inflammatory pathologies.

Tissue preparation:

Frozen tissue samples.

Included in the Panel:

20 BIOMARKERS			
Alanine	**Glutamic acid**	**Leucine**	**Serine**
Arginine	**Glutamine**	**Lysine**	**Threonine**
Asparagine	**Glycine**	**Methionine**	**Tryptophan**
Aspartic acid	**Histidine**	**Phenylalanine**	**Tyrosine**
Cysteine	**Isoleucine**	**Proline**	**Valine**

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GLYCOLYSIS PANEL

Imaging Panel:

The Glycolysis Panel is a spatial metabolomics imaging solution designed to characterize glycolytic activity within intact tissue sections using mass spectrometry imaging (MSI). By capturing key steps of the glycolytic pathway, this panel provides a functional spatial readout of cellular energy metabolism associated with immune cell activation and inflammatory responses.

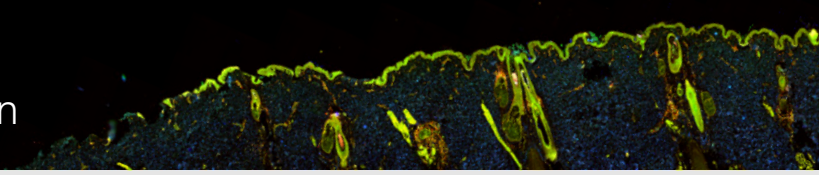
It enables the investigation of metabolic reprogramming occurring in inflamed tissues, highlighting spatial heterogeneity linked to immune cell infiltration, hypoxic or nutrient-stressed microenvironments, and immune–stromal interactions. This panel supports the study of immune and inflammatory disease mechanisms, evaluation of immunomodulatory or anti-inflammatory therapies, and identification of spatial metabolic biomarkers associated with disease activity, treatment response, or resistance.

Tissue preparation:

Frozen tissue samples.

Included in the Panel:

9 BIOMARKERS		
Fructose-1,6-bisphosphate	**Glyceraldehyde-3-phosphate**	**3-Phosphoglycerate**
Fructose-6-phosphate	**1,3-Bisphosphoglycerate**	**Hexose**
Glucose-6-phosphate	**2-Phosphoglycerate**	**Phosphoenolpyruvate**



KREBS CYCLE PANEL

Imaging Panel:

The Krebs Cycle Panel is a spatial metabolomics imaging solution based on mass spectrometry imaging (MSI), designed to characterize tissue energy metabolism associated with immune and inflammatory processes. By enabling spatial mapping of central metabolic pathways within intact tissue sections, this panel provides insights into immune cell metabolic states, inflammatory activation, and metabolic adaptations within diseased tissues.

It supports the investigation of immune-driven and inflammatory conditions by revealing spatial heterogeneity linked to immune cell infiltration, tissue stress, and microenvironmental constraints. This panel is particularly suited for studying mechanisms of action of immunomodulatory or anti-inflammatory therapies, evaluating treatment response or resistance, and identifying spatial metabolic biomarkers associated with inflammation and immune regulation.

Tissue preparation:

Frozen tissue samples.

Included in the Panel:

9 BIOMARKERS		
2-oxoglutarate	**Fumarate**	**Malate**
Acetyl CoA	**Isocitrate**	**Pyruvate**
Citrate	**Lactate**	**Succinate**

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ATP PATHWAY PANEL

Imaging Panel:

The ATP Pathway Panel is a spatial metabolomics imaging solution based on mass spectrometry imaging (MSI), designed to assess cellular energy states within intact tissue sections in immune and inflammatory contexts. By enabling spatial visualization of energy-related metabolic dynamics, this panel provides insights into immune cell activation, functional status, and metabolic stress within inflamed tissues.

It supports the study of immune and inflammatory diseases by revealing spatial heterogeneity linked to immune cell infiltration, tissue damage, and microenvironmental constraints. This panel is particularly suited for investigating mechanisms of action of immunomodulatory or anti-inflammatory therapies, evaluating treatment response or resistance, and identifying spatial energy-related biomarkers associated with immune regulation and inflammation.

Tissue preparation:

Frozen tissue samples.

Included in the Panel:

5 BIOMARKERS	
Adenosine	**ATP**
ADP	**Inosine**
AMP	

LIPIDOMICS (NEGATIVE IONIZATION) PANEL

Imaging Panel:

The Spatial Lipidomics (Negative Ionization) Panel is a mass spectrometry imaging (MSI) based solution, enabling spatially resolved profiling of lipid metabolism across intact tissue sections in immune and inflammatory settings. By capturing localized lipid metabolic states, this panel provides critical insights into immune cell signaling, inflammatory regulation, and tissue-specific lipid remodeling within diseased microenvironments.

It enables the investigation of immune-driven and inflammatory pathologies by revealing spatial heterogeneity linked to immune cell infiltration, inflammatory activation, and immune–tissue interactions. This panel supports the assessment of mechanisms of action of immunomodulatory or anti-inflammatory therapies, evaluation of treatment response or resistance, and discovery of spatial lipid biomarkers associated with immune regulation and inflammation.

Tissue preparation:

Frozen tissue samples.

Included in the Panel:

CLASS OF LIPIDS	NUMBER OF BIOMARKERS
Ceramides	**8**
Free fatty acids	**15**
Galactosyl Ceramides	**8**
Lysophosphatidic Acid and Phosphatidic Acid (LPA and PA)	**30**
Lysophosphatidylglycerol and Phosphatidylglycerol (LPG and PG)	**30**
Lysophosphatidylinositol and Phosphatidylinositol (LPI and PI)	**30**
Lysophosphatidylserine and Phosphatidylserine (LPS and PS)	**30**
Sterols	**1**
Sulfatides	**8**
Bile acids	**6**

LIPIDOMICS (POSITIVE IONIZATION) PANEL

Imaging Panel:

The Spatial Lipidomics (Positive Ionization) Panel is a mass spectrometry imaging (MSI) based solution, enabling spatially resolved profiling of lipid metabolism across intact tissue sections in immune and inflammatory settings. By capturing localized lipid metabolic states, this panel provides critical insights into immune cell signaling, inflammatory regulation, and tissue-specific lipid remodeling within diseased microenvironments.

It enables the investigation of immune-driven and inflammatory pathologies by revealing spatial heterogeneity linked to immune cell infiltration, inflammatory activation, and immune–tissue interactions. This panel supports the assessment of mechanisms of action of immunomodulatory or anti-inflammatory therapies, evaluation of treatment response or resistance, and discovery of spatial lipid biomarkers associated with immune regulation and inflammation.

Tissue preparation:

Frozen tissue samples.

Included in the Panel:

CLASS OF LIPIDS	NUMBER OF BIOMARKERS
Acyl carnitines	**15**
Lysophosphatidylcholine and Phosphatidylcholine (LPC and PC)	**30**
Lysophosphatidylethanolamine and Phosphatidylethanolamine (LPE and PE)	**30**
Sphingomyelin	**8**
Sterols	**1**

AUTOIMMUNE DISCOVERY PANEL

Human Fluids, Solid Tissue Homogenates, and Cell Suspension Panel:

The nCounter Autoimmune Discovery Panel is a targeted gene expression panel designed to support discovery and mechanistic studies in autoimmune and inflammatory diseases. It profiles ~755 genes covering the core biological pathways involved in innate and adaptive immune responses, cytokine signaling, immune cell activation, and immune regulation.

Tissue preparation:

Pathway activity is measured from bulk gene expression profiles generated from the input sample.Compatible with RNA from both FFPE-derived samples and frozen tissue.

Included in the Panel:

BIOLOGICAL PATHWAY	NUMBER OF BIOMARKERS
Cytokine & Chemokine Signaling	**180**
Innate Immune Response	**140**
Adaptive Immune Response	**130**
Antigen Presentation	**70**
Interferon Signaling	**60**

IMMUNOLOGY PANEL

Human Fluids, Solid Tissue Homogenates, and Cell Suspension Panel:

The nCounter Immunology Panel profiles over 500 immune-related genes. These cover key classes like cytokines, chemokines, interferons and their receptors, TNF receptor family members, and KIR family genes making it useful for broad immunology research such as allergy, autoimmunity, infectious disease responses, and general immune signaling studies.

Tissue preparation:

Pathway activity is measured from bulk gene expression profiles generated from the input sample. Compatible with RNA from both FFPE-derived samples and frozen tissue.

Included in the Panel:

BIOLOGICAL PATHWAY	NUMBER OF BIOMARKERS
Cytokines & Interleukins	**500+ GENES**
Chemokines and chemokine receptors	
Interferons and interferon receptors	
TNF receptor superfamily	
Killer immunoglobulin-like receptor (KIR) genes	
Major immune signaling families and enzymatic regulators	
General immune response and cell-cell signaling mediators	

HUMAN INFLAMMATION PANEL

Human Fluids, Solid Tissue Homogenates, and Cell Suspension Panel:

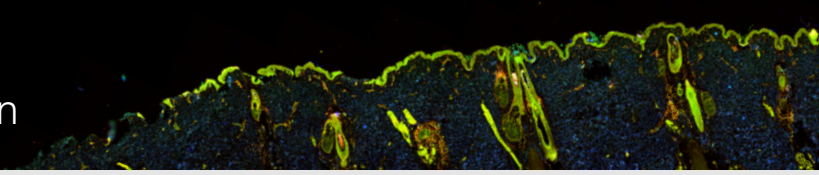
The nCounter Human Inflammation Panel is a targeted gene expression panel designed to profile genes associated with the inflammatory response in human samples. It includes a curated set of ~250 genes selected for their differential expression in inflammatory conditions, representing key biological pathways involved in immune and inflammatory signaling.

Tissue preparation:

Pathway activity is measured from bulk gene expression profiles generated from the input sample. Compatible with RNA from both FFPE-derived samples and frozen tissue.

Included in the Panel:

BIOLOGICAL PATHWAY	NUMBER OF BIOMARKERS
Cytokine & Chemokine Signaling	**70**
Interleukin Signaling	**50**
Toll-like Receptor (TLR) Signaling	**30**
T-Cell Receptor & Adaptive Signaling	**40**
Apoptosis & Cell Stress Responses	**30**
EGF / Ras / Growth Factor Signaling	**25**



NEXT GENERATION IMMUNE PROFILING PANEL

Human Fluids, Solid Tissue Homogenates, and Cell Suspension Panel:

This CYTOF Next-Generation Immune Profiling Panel characterizes the full immune architecture, while also capturing activation, proliferation, cytotoxicity, and checkpoint-regulated states.

The panel captures

- T-Cell Landscape
- B-cell and Plasma Cell Compartments
- NK Cell Populations
- Myeloid System
- Neutrophils and Granulocytes
- Dendritic Cell Subsets
- Activation / Proliferation / Regulation Axes
- Overall “Immune Contexture”

Tissue preparation:

Compatible with both fresh blood and frozen PBMCs.

Included in the Panel:

46 BIOMARKERS				
CD45	CD14	CD161	CD8a	CD3
IL-2	CD20	CD27	IFN alpha	HLA-DR
IFN beta	IgD	CD185/CXCR5	CD196/CCR6	CD127/IL-7R alpha
IL-4	IL-1b	CD56/NCAM	CD19	Tbet
CD11c	GATA3	CD294/CRTH2	CD45R0	IL-22
CD45RA	CD4	IL-13	CD194/CCR4	FoxP3
CD25	IL-6	CD66b	CD57	
CD183/CXCR3	IFN gamma	TNF alpha	CD28	
CD38	CD123/IL-3R	IL-12p70	TCR gamma delta	
IL-10	CD16	IL-17A	CD197/CCR7	

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IMMUNE PROFILING PANEL

Human Fluids, Solid Tissue Homogenates, and Cell Suspension Panel:

This CyTOF Immune Profiling Panel captures the full systemic immune landscape, enabling comprehensive immune monitoring in oncology, inflammation, and immunotherapy studies.

The panel captures

- Major Immune Lineages
- Maturation & Differentiation States
- Immune Activation & Functional Readouts
- Trafficking
- T Helper & T Regulatory Architecture
- Innate & Adaptive Crosstalk

Tissue preparation:

Compatible with both fresh blood and frozen PBMCs.

Included in the Panel:

30 BIOMARKERS				
CD3	CD45	CCR7	CD20	CD127
CD11c	CD45RO	CXCR5	CD27	CD294
CD8a	CD57	IgD	CD38	CCR6
CD19	CD123	CD4	CD45RA	CXCR3
CD25	CD161	CD14	CD56	HLA-DR
CD28	CCR4	CD16	CD66b	TCR$\gamma\delta$

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MYELOID & B CELL SUBSETS PANEL

Human Fluids, Solid Tissue Homogenates, and Cell Suspension Panel:

The CYTOF Myeloid and B cells panel characterizes the myeloid and B-cell compartments enabling characterization of innate immunity, antigen presentation, and B-cell maturation.

The panel captures

- Myeloid Compartment
- B-cell Compartment

Tissue preparation:

Compatible with both fresh blood and frozen PBMCs.

Included in the Panel:

14 BIOMARKERS			
CD181	CD24	CD163	MAC-1
CD80	CD3	PD-1	CD25
CD33	iCOS	CD40	CD127
CD11B	CD22		

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T CELL COSTIMULATION & EXHAUSTION ACTIVATION PANEL

Human Fluids, Solid Tissue Homogenates, and Cell Suspension Panel:

The CYTOF T cell co-stimulation and exhaustion panel characterizes T-cell activation, co-stimulatory signaling and early inhibitory/exhaustion pathways while defining T-cell differentiation states.

The panel captures

- T-cell activation & co-stimulation
- Early T-cell exhaustion / inhibitory signaling
- T-cell differentiation context

Tissue preparation:

Compatible with both fresh blood and frozen PBMCs.

Included in the Panel:

12 BIOMARKERS			
OX40	**CD135**	**TIGIT**	**IL-2**
CD69	**TNFα**	**PD-1**	**IFNg**
TIML-3	**Perforin**	**iCOS**	**Granzyme B**

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T CELL ACTIVATION PANEL

Human Fluids, Solid Tissue Homogenates, and Cell Suspension Panel:

The CYTOF T-cell Activation Panel characterizes T-cell identity, activation status, and differentiation providing a detailed view of T-cell activation, maturation, and immune engagement.

The panel captures

- T-cell identity
- T-cell activation status
- T-cell differentiation states
- T-cell proliferation

Tissue preparation:

Compatible with both fresh blood and frozen PBMCs.

Included in the Panel:

12 BIOMARKERS			
CD107A	**CTLA-4**	**IL-2**	**IL-10**
CD69	**IL-17A**	**TNFα**	**IFNg**
IFNγ	**Granzyme B**	**IL-4**	**Perforin**