

Synexa Biomarker and Bioanalytical Solutions

Complex solutions delivered
on time and within budget

Bespoke Biomarker and Bioanalytical Solutions

Synexa Life Sciences has supported large and emerging biopharma customers across the globe to achieve their clinical milestones through the delivery of innovative biomarker and bioanalytical solutions. Synexa specialises in the development, validation, and delivery of a wide range of complex and custom-designed assays across three laboratory locations. Our expertise is founded on decades of experience in immunology and impact of the immune system on human health and candidate drug performance.

Support Across the Therapeutic Continuum

Synexa's global lab footprint and vast expertise has enabled us to support our biopharma customers from preclinical translational research, into biomarker development, through to clinical bioanalysis, helping our customers achieve their clinical milestones.

Discovery	Pre-clinical	Translational	Clinical Phase I - III
Bioanalysis PK & Immunogenicity	Small molecules/oligos	- Lead candidate selection - Functional <i>in vitro</i> testing - LC-MS/MS TK & PK analysis - Ligand binding TK& PK analysis - ADA & NAb - Cell based assays - GMP/batch release testing - Radioimmunoassay, method development, validation & analysis - Cell activation & expansion - Long term cell persistence - Viral shedding & titre analysis - Quantification of transgene/CAR expression	
	Large molecules		
	Vaccines		
	Radiopharmaceuticals		
	Cell & Gene therapies		
Biomarkers	Translational	- Biomarker selection & strategy - Translational <i>in vitro</i> testing on human samples & integrated bioinformatics	
	Genomics	- PCR - Sequencing & NanoString	
	Proteomics	- ELISA, MSD, Gyrolab, Olink Target96 - LC-MS/MS	
	Cellular	- Functional immunophenotyping - Receptor occupancy assays	
	Tissue	<i>Histopathology</i> - Multiplex immunofluorescence, super resolution microscopy	

Laboratory & Business Sites Across the Globe



Our global purpose-built laboratories have been designed to meet the ever-evolving complexity of drug development pipelines.

Our Biomarker & Bioanalytical Services

Synexa specialises in providing bespoke biomarker and bioanalytical solutions, developed and validated to meet your specific needs.



✓ **Pre-clinical/Translational**

- Biomarker selection & strategy
- Functional in vitro testing
- Access disease-relevant patient samples
- Diverse sample matrices

✓ **Genetic**

- Targeted Sequencing
- ddPCR, qPCR and RT-PCR
- Microbiome profiling
- NanoString® gene expression

✓ **Soluble Biomarkers**

- Cytokines & Chemokines
- Complement
- Serology
- Multiplexed proteomic markers
- Bespoke immunoassays

✓ **Cellular**

- Immunophenotyping
- Intracellular cytokine staining
- Receptor occupancy
- Multimer analysis
- PhosphoFlow
- Cytotoxicity

✓ **Tissue**

- Multiplexed immunofluorescence
- Tissue lysate protein biomarker analysis
- NanoString® tissue gene expression

✓ **Data Analytics & Insights**

- Integrated bioinformatics
- Complex biosignatures & stratification

✓ **Large and Small Molecule Bioanalysis**

- Pharmacokinetics
- Immunogenicity

✓ **Novel Modality Bioanalysis**

- Gene therapy bioanalysis
- Radiotherapies
- Radioligand therapies
- Cell therapy bioanalysis

Technology Platforms

Our specialist bioassay solutions are paired with proven advanced technology platforms, capable of assessing biomarkers across the biological continuum.

Genetic

- Digital PCR (dPCR)
- qPCR
- Pharmacogenetics
- Targeted Sequencing

RNA

- NanoString®
- RT-qPCR

Cell

- ELISpot
- In vitro cell culture
- Flow Cytometry
- FluoroSpot

Protein

- AlphaLISA®
- DELFIA
- ELISA
- Fluorescence and luminescence based readouts
- Gyrolab®
- LC-MS/MS
- MesoScale
- Nephelometry
- Olink®
- Radioimmunoassays
- Surface Plasmon Resonance

Tissue

- Multiplex Immunofluorescence
- Tissue lysate protein biomarkers

Speak to a Scientist

 ContactUs@synexagroup.com

 synexagroup.com

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