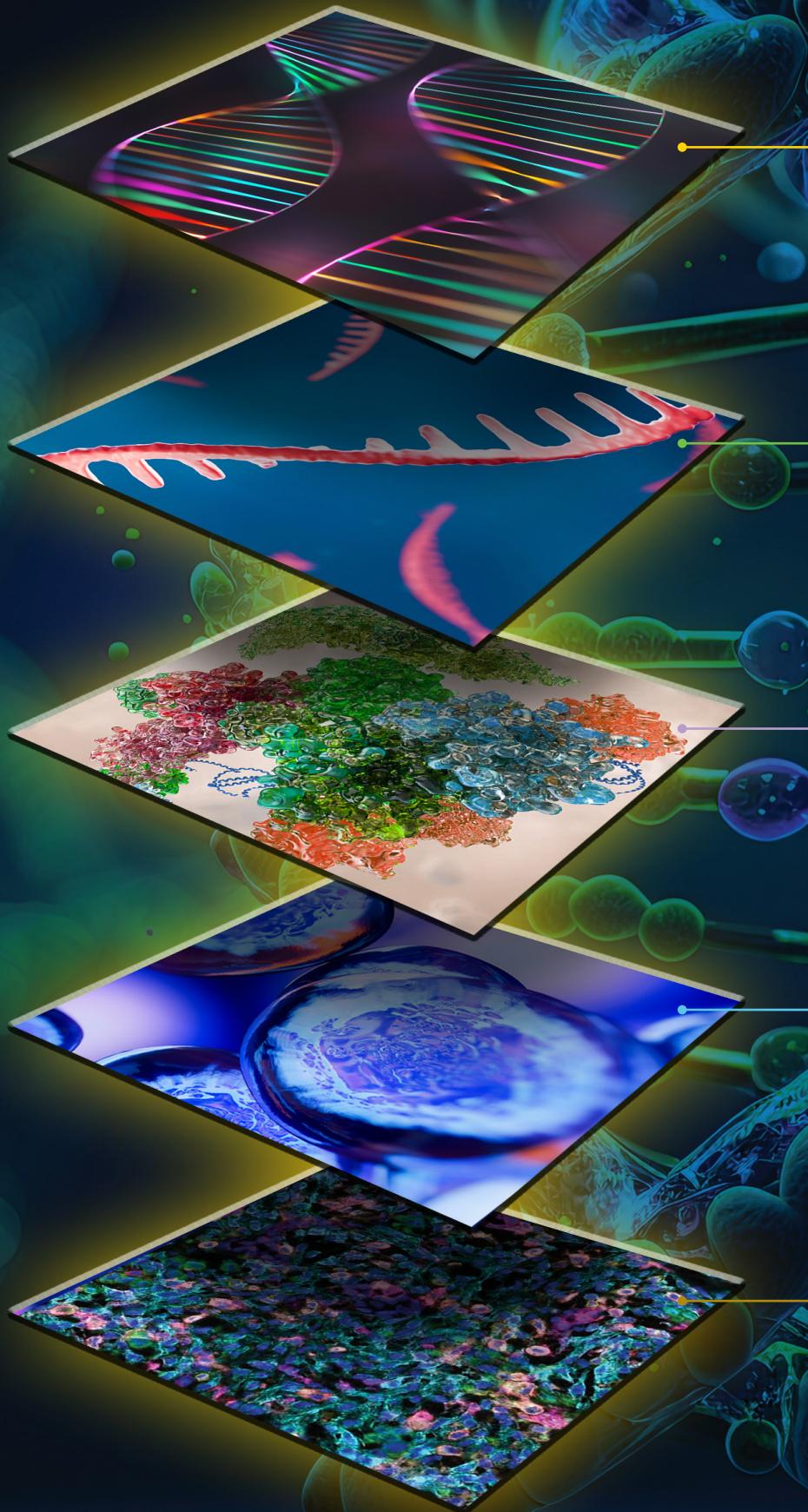# Comprehensive Multi-Omics Approach to Support Biomarker Programs

PRECISION for medicine ®

## Genomics

Comprehensive genomic profiling for patient stratification, pharmacogenomics, and ctDNA monitoring across oncology and rare disease programs through our NGS, ddPCR, qPCR, and FISH offerings

- NGS
- ddPCR
- qPCR
- FISH/ISH
- MSK-IMPACT/ACCESS

## Transcriptomics

Profile gene expression, immune responses, track transgene expression, and identify mechanism-of-action biomarkers critical for understanding therapeutic impact through bulk RNA-seq, single-cell RNA-seq, and targeted expression panels.

- RNASeq
- Single cell RNASeq
- NanoString nCounter
- RT-qPCR/ddPCR
- RNAscope-ISH

## Proteomics

Map pathways, monitor pharmacodynamics, and identify functional biomarkers that bridge genomic potential with biological reality by measuring protein abundance and post-translational modifications.

- Olink
- MSD
- ELISA/WB
- Multiplex immunofluorescence (mIF)
- Immunohistochemistry (IHC)

## Cytomics

Monitor immune cell dynamics, detect circulating tumor cells, track CAR-T expansion, and characterize cellular responses for immunotherapy and cell therapy development using spectral flow and our Epiontis ID® and ApoStream® platforms.

- Flow cytometry (multiplexing)
- Circulating tumor cell isolation (ApoStream)
- Epiontis ID
- EliSpot Assays

## Spatialomics & Pathomics

See tumor-immune interactions, identify resistance niches, and characterize the microenvironmental factors that influence therapeutic response by mapping the spatial architecture of tissues at single-cell resolution.

- mIF (Akoya Phenolmager HT – up to 8 markers, PhenoCycler Fusion – 60+ markers)
- Digital Pathology Scanning and Algorithms (PathAI, Indica Labs, Visiopharm)