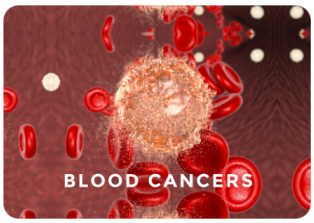
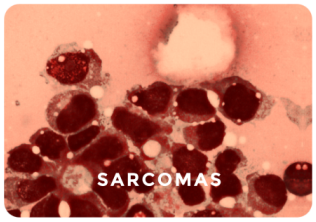
FUSIONPlex®

ARCHER®

RNA-BASED FUSION, EXPRESSION
AND VARIANT DETECTION

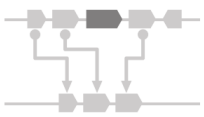
Comprehensive coverage of recurrent, rare and novel fusions



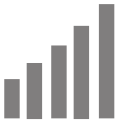


FUSIONS

SNVs & InDELs



SPLICING



EXPRESSION

NOVEL FUSIONS

AMP™ chemistry utilizes open-ended targeted amplification to identify gene fusions whether or not the partner is known.

LOW INPUT

AMP chemistry was purpose-built for library prep from low-input and degraded samples such as FFPE tissue.

EXPRESSION

Molecular barcoded fragments enable accurate RNA abundance calculations.

SPLICE VARIANTS & ISOFORMS OF INTEREST

Detect cancer-associated events such as METex14 skipping, EGFRvIII or kinase domain duplications.

QUIVER® FUSION DATABASE

Powerful fusion analysis combined with a curated database of relevant known translocations.

CUSTOMIZATION

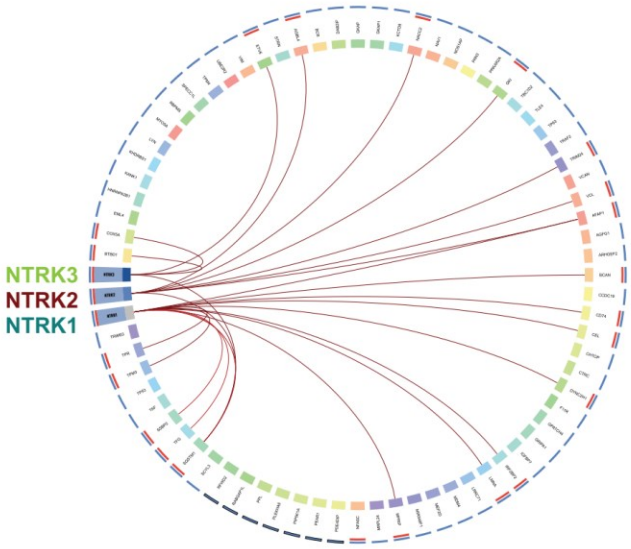
Create from scratch or modify any panel to keep up with the pace of discovery.

RUO **For Research Use Only. Not for use in diagnostic procedures.**

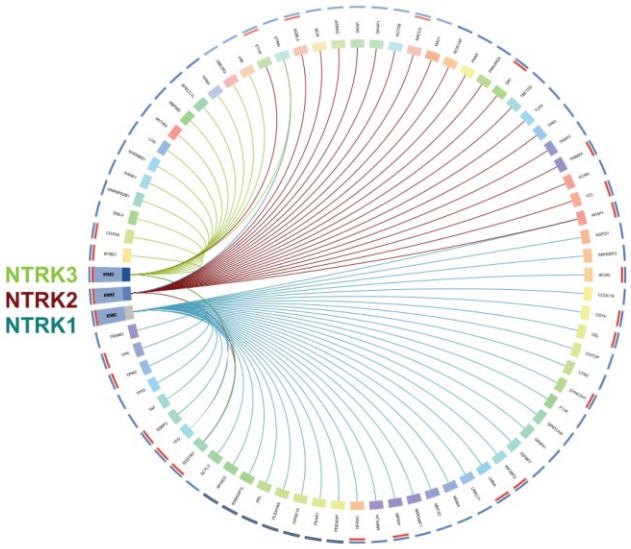
Sensitive fusion detection without prior knowledge of fusion partners.

ARCHER®

Standard NGS assays detect a limited number of NTRK1/2/3 fusion partners



Archer AMP™ chemistry can dectect all NTRK1/2/3 fusion partners



Wheels show known NTRK1/2/3 fusion partners

*Data on file

NCCN Clinical Practice Guidelines In Oncology (NCCN Guidelines®) for Non-Small Cell Lung Cancer recommend RNA-based NGS to maximize fusion detection

1

"It is recommended that testing be performed via a broad, panel-based approach, most typically performed by NGS. For patients who, in broad panel testing don't have identifiable driver oncogenes, **consider RNA-based NGS if not already performed, to maximize detection of fusion events."**[i†]

2

"Various methodologies can be used to detect NTRK gene fusions, including: FISH, IHC, PCR, and NGS; false negatives may occur. IHC methods are complicated by baseline expression in some tissues. FISH testing may require at least 3 probe sets for full analysis. **NGS testing can detect a broad range of alterations. DNA-based NGS may under-detect NTRK1 and NTRK3 fusions."**[i†]

[i]The NCCN Guidelines for NSCLC provide recommendations for individual biomarkers that should be tested and recommend testing techniques but do not endorse any specific commercially available biomarker assays.

RUO **For Research Use Only. Not for use in diagnostic procedures.**

ARCHER®

ARCHER® Analysis

ARCHER™ Analysis Unlimited

Archer Analysis provides deep analytical metrics in an easy to interpret interface.

Powerful Bioinformatics

Ultimate Adaptability

User-Friendly Analysis

Secure Platform

Available for ***local*** or private ***cloud-based*** installation

Analyze

- Simple, Intuitive Web-Based Interface
- Integrate LIMS Data
- Automate Sample Processing
- Customize Outputs

Interpret

- Comprehensive Sample and Fusion QC Metrics
- Visualize Fusions, Variants, Expression
- Dynamic Post-Processing Filtering Sets
- Third-Party or Locally Curated Annotations

Report

- Assignment and Tracking
- Customize PDF Reports
- Automate With Third-Party Software
- Easy to Interpret Reporting

RUO **For Research Use Only. Not for use in diagnostic procedures.**