

# TEMPUS

## Tempus xF Liquid Biopsy Assay Demonstrates Extensive Analytical and Clinical Validity in npj Precision Oncology Study

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Tempus, a leader in artificial intelligence and precision medicine, today announced results from validation studies demonstrating the reliable analytical performance of the Tempus|xF liquid biopsy. When validated against methods such as ddPCR, the Roche AVENIO kit, and the Tempus|xT solid tumor assay, xF demonstrated high sensitivity and specificity for calling SNVs, indels, CNVs, and gene rearrangements, making the liquid biopsy next-generation sequencing assay a preferred sequencing option should tumor tissue not be available.

xF is Tempus' non-invasive, 105-gene liquid biopsy panel focused on oncogenic and resistance mutations in cell-free DNA. Designed to provide clinical decision support for solid tumors, xF is an alternative to tissue-based biopsies in identifying biomarkers, detecting resistant mutations, monitoring response to treatment or disease progression, and spotting early recurrence in real time. [npj Precision Oncology](#) published xF's analytical validation, highlighting the assay's high sensitivity and specificity for detecting single-nucleotide variants, insertions/deletions, copy number variants, and gene rearrangements. The validation results show high accuracy in detecting clinically-actionable targets compared to orthogonal testing methods.

"This study underscores the clinical value of liquid biopsies, a non-invasive sequencing option and another powerful tool for oncologists to determine clinically-actionable alterations necessary for highly-effective and personalized treatment options," said Dr. Kimberly Blackwell, Chief Medical Officer at Tempus. "At Tempus, we have also found that xF is especially beneficial when used in combination with standard tissue sequencing for patients with advanced cancer, and therefore it is important to offer oncologists both a liquid biopsy and solid tumor assay on a single platform."

xF is part of Tempus' library of assays conducted in its CLIA-certified and CAP-accredited laboratory, which also includes xE, an assay that analyzes the whole exome and xT, an assay that analyzes 648 genes in solid tumor and hematologic malignancies.

### About Tempus

Tempus is a technology company advancing precision medicine through the practical application of artificial intelligence in healthcare. With one of the world's largest libraries of clinical and molecular data, and an operating system to make that data accessible and useful, Tempus enables physicians to make real-time, data-driven decisions to deliver personalized patient care and in parallel facilitates discovery, development and delivery of optimal therapeutics. The goal is for each patient to benefit from the treatment of others who came before by providing physicians with tools that learn as the company gathers more data. For more information, visit [tempus.com](https://tempus.com).