

by EXACT SCIENCES



Complete The Genomic Picture By Including DNA+RNA To Obtain The Most Actionable Insights For Therapy Selection

The OncoExTra[™] test is an **ultra-comprehensive genomic profiling assay** that incorporates tumor whole-exome (DNA) and whole-transcriptome^{*} (RNA) sequencing with paired tumor-normal analysis to identify alterations biomarkers in individuals diagnosed with advanced cancers. Findings are mapped to a knowledgebase of FDA-approved targeted treatment options as well as relevant clinical trial options.



Clinical Curation and Identification of Targeted Treatment Options (FDA-approved and experimental)

WES (DNA) - Allows for comprehensive analysis of all protein-coding genes in a sample.

WTS (RNA) - Allows the identification of transcript variants and fusion genes that may be undetectable through conventional CGP tests which only employ DNA analysis.



Comprehensive Without Compromise

- The OncoExTra test interrogates ~20,000 genes.³
- IO signatures including tumor mutational burden (TMB) and microsatellite instability (MSI).
- 15 optional immunohistochemistry (IHC) stains[†] including PD-L1 (SP142, 22C3, SP263) and MMR (Mismatch Repair) proteins.
- Patient-matched tumor-normal sample to rule out benign variants.³



All About Actionability

- Reports clinically actionable mutations, copy number alterations, transcript variants/fusions through DNA and RNA analyses.
- FDA-approved therapies and clinical trial options based on the patient's results are also reported.
- In a clinical utilization study, at least one clinically actionable variant was identified in 83.9% of reports (1267/1509).³

According to one estimate, 20% of cancer morbidity occurs in tumors driven by translocations and gene fusions. Many of these alterations are actionable and may be missed by panel-based tests and WES alone.^{1,2}

Case Study: OncoExTra[™] detects fusion event in NSCLC

- A 64-Year-old- male former smoker with a 50-pack year history presented to his primary physician with a 2-month history of fatigue, shortness of breath and unintentional weight loss.
- The patient previously had been offered lung cancer screening with a low dose CT scan of the chest but refused.
- A chest x-ray was ordered, and a suspicious nodule was noted in the left lung upper lobe. A CT of the chest demonstrated multiple nodules throughout both lungs suspicious for malignancy.
- CT guided lung biopsy confirmed adenocarcinoma consistent with pulmonary origin. PET/CT was completed and in addition to the lung lesions, 2 hypermetabolic hepatic lesions were also noted.
- The OncoExTra test was performed on the biopsy. It was discovered the patient harbored ROS1 fusion.
- Tyrosine Kinase Therapy was initiated and after 3 months repeat imaging demonstrated stable disease throughout the chest and abdomen.

This case study is for educational purposes only and is not clinical, diagnostic, or treatment advice for any particular patient. Results and outcomes may vary. Providers should use their clinical judgment and experience when deciding how to diagnose or treat patients. Exact Sciences does not recommend or endorse any particular course of treatment or medical choice.

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To Learn More: OncoExTra.com To Order: OncoExTra.com/order



References: 1. Drenner, Basu GD, Goodman LJ, et al. The value of comprehensive genomic sequencing to maximize the identification of clinically actionable alterations in advanced cancer patients: a case series. Oncotarget. 2021; 12:1836-1847. 2. Nikanjam M, Okamura R, Barkauskas DA, Kurzrock R. Targeting fusions for improved outcomes in oncology treatment. Cancer. 2020; 126:1315-1321. 3. White T, Szelinger S, LoBello J, et al. Analytic validation and clinical utilization of the comprehensive genomic profiling test, Oncotarget 2021;12:726-739 Disclaimer: The OncoExTra test is not a FDA cleared or approved IVD device or companion diagnostic for the referenced biomarkers and FDA approved therapies.

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OncoExTra has been validated according to the guidelines set forth by the New York State Department of Health Oftod-minimar/Debt automatic accounting to the guidelined account of the relevant data action of the operation of the intervention of the second of the seco [†]IHC testing not currently available in New York State

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