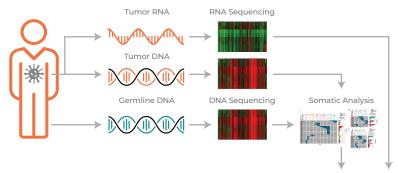




Complete The Genomic Picture By Including DNA+RNA To Obtain The Most Actionable Insights For Therapy Selection

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

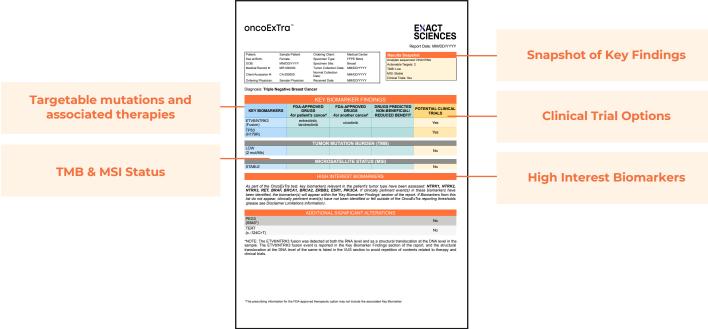
- Reports clinically actionable mutations, copy number alterations, transcript variants/fusions through DNA and RNA analyses.
- FDA-approved therapies and clinical trial options based on the patient's results are also reported.
- In a clinical utilization study, at least one clinically actionable variant 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: Ultra-comprehensive profiling reveals clinically actionable mutations in Advanced Breast Cancer

- A 40-year-old postmenopausal female presented to the emergency department with sudden onset of right sided weakness.
- CT brain was ordered, and a 2 cm left frontal lobe mass was identified. MRI confirmed the presence of an isolated brain lesion and surgical resection was recommended.
- Pathology from the brain lesion demonstrated metastatic carcinoma consistent with breast origin (ER/PR negative, HER2/neu negative). Subsequent breast examination confirmed left breast mass and a core needle biopsy confirmed invasive ductal carcinoma.
- CT of the chest revealed pulmonary nodules in both lungs consistent with metastatic disease.
- Comprehensive genomic profiling was ordered with the OncoExTra test on the resected brain lesion.
- Results from the WES/WTS detected an ETV6/NTRK fusion and NTRK inhibitor was recommended after taking into consideration the CNS disease. The patient was initiated onto a tyrosine kinase inhibitor.
- Three months later repeat imaging demonstrated decreasing size of pulmonary lesions.

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.



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; 12:1835-1847. 2. Nikanjam M, Okamura R, Barkauskas DA, Kurzrock R. Targetting 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

utilization of the comprehensive genomic profiling test, Orlocateget 2021,i2. 206-739

Disclaimer: The OncoExTra test is not a FDA cleared or approved IVD device or companion diagnostic for the referenced biomarkers and FDA approved therapies

Exact Sciences Corporation 445 N. 5th St, Suite 300 | Phoenix, AZ 85004



OncoExTra has been validated according to the guidelines set forth by the New York State Department of Health. Whole exome (DNA) events have been validated to include point mutations, indels, and copy number alterations, as well as MSI analysis and TMB calculation. Whole transcriptome (RNA) has been validated to report on select fusion genes and special transcripts.

OncoExTra is a trademark of Genomic Health, Inc., a wholly-owned subsidiary of Exact Sciences Corporation. Exact Sciences is a registered trademark of Exact Sciences Corporation.

© 2023 Genomic Health, Inc. All rights reserved. M-US-GEM-00085_1123