3 VERSIONS available

22 RNA genes

MSI



HRD



Deliver on the promise of **precision medicine**

Identify the most relevant treatments for your cancer patients

Protein biomarkers

When your patients are diagnosed with any cancer type including aggressive cancer or rare cancer type, at diagnosis, after resection or when chemotherapy doesn't work or when cancer comes back, **OncoDEEP** can provide you with **clear clinical guidance**.

OncoDEEP covers the widest panel of clinically relevant genes existing today and offers a unique comprehensive and flexible offer with 3 new OncoDEEP types based on biological and/or scientific evidence.

Depending on your OncoDEEP formula (see table below), this 360-degree approach has proved to maximize the clinical benefits for patients and has matched patients with:





Why choose OncoDEEP?

- Map out the cancer treatment options that match your patient's tumor profile
- Reveal early indication of treatment resistance and spare non-responders toxicity of a treatment with no therapeutic benefit
- **Reduce cost of testing** as comprehensive testing is more cost-effective than sequential biomarker testing and delivers faster results
- Uncover opportunities to access drugs and clinical trials by leveraging OncoDNA proprietary, curated and up to date database and OncoDNA networks with pharma and clinical trial platforms
- Increase patients' understanding and access to clinical trials
- Publish patient case studies and develop academic papers with us

In what scenarios is OncoDEEP useful?

- Available for all solid tumors in adults and glioblastoma in children
- Recommended for early stages NSCLC after complete resection
- Recommended for maintenance Treatment of Patients with Advanced Ovarian Cancer
- Recommended for stage III or stage IV cancer patients:
 - > At initial diagnosis
 - > At disease progression after first-line treatment
 - > In case of a highly aggressive cancer or rare cancer type
 - > When primary location of the tumor is unknown

A **35-year-old man** was diagnosed with **metastatic NSCLC**

Due to the nature of NSCLC, the biopsy obtained was of limited quantity and questionable quality. With this in mind, his oncologist suggested to run a biomarker test and decided on OncoDEEP. The test confirmed the poor RNA quality and also revealed a METex-14 skipping, highlighting patient eligibility to be treated with capmatinib or tepotinib.

A **treatment-naive 40-year-old man** patient was diagnosed

with **pancreatic cancer** without any familial predisposition

The oncologist requested to perform a routine 45-gene NGS test in his local hospital suspecting that the likelihood to find an actionable mutation was very low. After a discussion with his patient, he decided to try OncoDEEP. The test revealed a positive HRD status Recombination (Homologous Deficiency) in the absence of a BRCA mutation, highlighting the patient's eligibility to a clinical trial in the USA for irinotecan, rucaparib, fluorouracil and leucovorin; into which his oncologist succeeded in getting him recruited.

A 65-year-old woman was diagnosed with a Cancer of Unknown Primary

She underwent an OncoDEEP test, which highlighted a Microsatellite Instability (MSI-high) and a high Tumor Mutational Burden (TMB-high). Based on these insights, the oncologist enrolled this lady onto a clinical trial focused on an innovative combination of immunotherapies (tiragolumab + atezolizumab). In just one month, the patient showed a partial response with a 25% decrease in the tumor size.

A unique combination of leading-edge tests



The OncoDEEP report helps oncologists understand how likely it is that an individual patient will respond to a specific treatment and flag potential resistance mechanisms.

Each report:

- Summarizes result in one page with clear indication of patient sample information and genomic findings
- Presents detected variants with clinical significant associated with potential therapeutic impact (or lack of) according to FDA/ EMA/NCCN/ESMO guidelines and/or based on our proprietary database
- Is actionable, concise and help inform therapy decisions according to the most recent clinical guidelines
- Aids in fueling research, by contributing and building clinical evidences, uncovering potential targets for cancer drug development



OncoDEEP step by step

Our teams are at hand to assist you every step of the way – from discussing the relevance of the test for your patient and easing the sample collection to understanding the clinical recommendations listed in the report.

Test selection based on patient's case

Cancer sample collection and test order confirmation

Sample shipment to OncoDNA testing laboratory and confirmation of receipt Sample processing

Final report available on a secured online platform in **10 working days**

Choose your OncoDEEP formula

PTEN p-4EBP1 ROS1

Chemo Panel: ERCC1/HENT1/RRM1/TLE3/ TOPO1/TOP2A/TS/TUBB3

*CUP male : AR + standard IHC panel for histological diagnosis

	OncoDEEP NGS	OncoDEEP	OncoDEEP Premium
Features			
Therapeutic prediction	At DNA and RNA level according to international guidelines	At DNA, RNA and protein level according to international guidelines and or scientific evidence	At DNA, RNA and protein level according to international guidelines • Non-tumor specific chemotherapy and exploration of mTOR pathway IHC panel
	0.0 DUI DUI	0.0 DW DW	
NGS panels	638 genes DNA + 22 genes RNA	638 genes DNA + 22 genes RNA	638 genes DNA + 22 genes RNA
Genomic signatures (MSI, TMB, HRD)	Included	Included	Included
TERT promotor	Included	Included	Included
Methylation (MGMT, MLH1)	Not included	Included for specific cancer types	Included for specific cancer types
Additional Biomarkers	Not included	Included Tumor-specific IHC Supported by clinical and/or scientific evidence	Included Tumor-specific IHC supported by clinical and/or scientific evidence * Non-tumor specific chemotherapy IHC panel and exploration of mTOR pathway IHC panel
Clinical Utility			
Targeted therapy	Based on NGS	Based on NGS + IHC	Based on NGS + IHC
Immunotherapy	Based on NGS (TMB & MSI)	Based on NGS (TMB & MSI) + Based on IHC : PD-L1, CD-8	Based on NGS (TMB & MSI) + Based on IHC : PD-L1, CD-8
Hormone therapy	Based on NGS (ESR1/AR genes and ARv7)	Based on NGS (<i>ESR1/AR</i> genes and ARv7) + IHC markers	Based on NGS (<i>ESR1/AR</i> genes and ARv7) + IHC markers
Clinical trials (II & III)	Based on NGS	Based on NGS + IHC markers	Based on NGS + IHC markers
Chemotherapy	Toxicity based in NGS	Toxicity based in NGS	Toxicity based on NGS + potential treatment responsiveness based on chemotherapy IHC panel
Sample Requisitions			
Sample type	Block or if not possible 7 slides of 10 µm Non-Superfrost™ Plus	Block or if not possible: 15 slides (7 slides of 10 µm Non-Superfrost [™] Plus and 8 slides of 5 µm Superfrost [™] Plus) <u>excepted for Breast HR+ cancer</u> : 20 slides (7 slides of 10 µm Non-Superfrost [™] Plus and 13 slides Superfrost [™] Plus) Block mandatory for CUP	Block
PRODUCT SPECIFICATIONS	BREAST CANCERHERZ BREAST CANCERHERZ TRIPLE MECATHER BREAST CANCERHHA. BREAST CANCERHHA. BREAST CANCER CHOLONING CANCER COLORECTAL CANCER COLONING OC	CANTRA CANARY CANCER ESOPHIAGEAL ALOGIASTONIA CLONIA ALOGIANO NECK CHNOGENUOCRINE CANCERALL CELLI	OlgRight - LUNG PRUCEBITC CANCER PROSTATE CANCER RENUL CEL CANCER RENUL CEL CARCINONG CANCER BLADDER CANCER BLADDER
NGS aloneHE IHCALKARCD8c-ERBB2ERMGMT methylationMLH1 methylationPD-L1 (sp142)PD-L1 (22C3)PD			

OncoDEEP

*CUP female: ER + PR + standard IHC panel for histological diagnosis

OncoDEEP NGS

OncoDEEP premium