

celldxTM

Deep genomic analysis
of solid tumours



For professional use only



About celldx™

celldx™ is a tissue based comprehensive molecular profiling of solid tumours with the aim to personalise therapy options. celldx™ also provides information on the benefit of immune checkpoint inhibitors.

To individualise the cancer treatment, celldx™ detects genetic alterations suited for the application of targeted therapies. In addition, immunostaining is performed on the provided tissue samples for PD-L1 suitability in combination with tumour mutational burden and MSI/MMR.

celldx™ is performed at our state of the art laboratories which are ISO 15189, CLIA and CAP as well as UKAS accredited.

celldx™ provides molecular analysis for patients with advanced cancer.

SNVs | INDELS
392 Genes

CNAs
333 Genes

Fusions
51 Genes

TMB | PDL1

511 Genes

MSI | MMR

celldx™ provides advantages whenever ...



... there has to be a fast decision about a targeted therapy.



... an immunotherapy is an option for the patient.

SNV = Single nucleotide variation
MSI = Micro satellite instability

INDEL = Insertion / Deletion
MMR = Mismatch repair

CNA = Copy number alteration

Examples for Biomarker-Based Drug Indications

INDICATIONS	BIOMARKER	US FDA-APPROVED THERAPY
Non-Small Cell Lung Cancer (NSCLC)	EGFR exon 19 deletions/ exon 21 L858R	Gefitinib, Erlotinib, Afatinib, Dacomitinib, Osimertinib
	EGFR exon 20 insertion	Amivantamab, Mobocertinib
	EGFR T790M	Osimertinib
	KRAS G12C	Sotorasib
	ALK rearrangements	Alectinib, Crizotinib, Ceritinib, Lorlatinib, Brigatinib
	BRAF V600E	Dabrafenib in combination with Trametinib
	ROS1 rearrangements	Entrectinib, Crizotinib
	RET rearrangements	Selpercatinib, Pralsetinib
	MET exon 14 skipping alterations	Capmatinib, Tepotinib
	NTRK1/2/3 fusions	Larotrectinib, Entrectinib
PD-L1	Pembrolizumab, Nivolumab, Atezolizumab	
Colorectal Cancer (CRC)	KRAS wild-type	Cetuximab, Panitumumab
	MSI-H/dMMR	Nivolumab ± Ipilimumab or Pembrolizumab
	BRAF V600E	Encorafenib
Breast Cancer	ERBB2 (HER2) amplifikation	Lapatinib, Neratinib, Trastuzumab, Ado-Trastuzumab emtansine, Pertuzumab, Margetuximab, Tucatinib, Fam-Trastuzumab deruxtecan
	BRCA1/2 alterations	Olaparib, Talazoparib
	PIK3CA	Alpelisib
Ovarian Cancer	BRCA1/2 alterations	Olaparib, Rucaparib, Niraparib
	HRR deficient tumours	Niraparib
Melanoma	BRAF V600E	Dabrafenib or Vemurafenib
	BRAF V600E oder V600K	Trametinib or Cobimetinib in combination with Dabrafenib or Vemurafenib
Urothelial Carcinoma	FGFR2, FGFR3 alterations	Erdafitinib
	PD-L1	Pembrolizumab, Atezolizumab
Gastric or GE junction adenocarcinoma	ERBB2 (HER2) amplifikation	Trastuzumab, Fam-Trastuzumab deruxtecan
Cholangiocarcinoma	FGFR2 (fusion/rearrangement)	Ivosidenib
	IDH1 mutations	Olaparib
Pancreatic Cancer	BRCA1/2 mutation	Olaparib
Prostate Cancer	HRR deficient tumours, BRCA1/2 mutations	Olaparib
Thyroid Cancer	RET fusions	Selpercatinib, Pralsetinib
Solid Tumours	NTRK1/2/3 fusions	Entrectinib, Larotrectinib
	MSI-H/sMMR	Pembrolizumab

Sample requirements

Sample requirements:

- FFPE block with at least 5% tumour content or 10 unstained slides

Turn Around Time (TAT):

- Analysis based on fresh tissue –
10 working days from receipt of the sample

FAQ's



How long does it take to receive the results and how will they be provided?

The turnaround time, after which the patient or his treating doctor will receive the results, is usually 10 working days from the day the laboratory receives the tissue sample. The test report contains all genomic highlights and lists the particular therapy options.



Which analytes are included?

SNVs, INDELs, CNAs, Fusions, TMB, PD-L1, MSI, MMR, HRD (Homologous recombination deficiency).



Is celldx™ suited as a companion diagnostic tool?

Yes, celldx™ can provide information if a target alteration is present. Evaluation of therapies in the need of companion diagnostics across several cancer indications is available as well as clinical trial matching across all solid tumours.



Is celldx™ of advantage when selecting an immunotherapy?

celldx™ provides informed decisions if an immunotherapy is beneficial using genomic signatures like microsatellite instability (MSI), tumor mutational burden (TMB) and PD-L1 status via immunostaining.

Publication

Akolkar D, Patil D, Srivastava N, Patil R et al. (2021) Development and validation of a multigene variant profiling assay to guide targeted and immuno therapy selection in solid tumors. PLoS ONE 16(2): e0246048. <https://doi.org/10.1371/journal.pone.0246048>.

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