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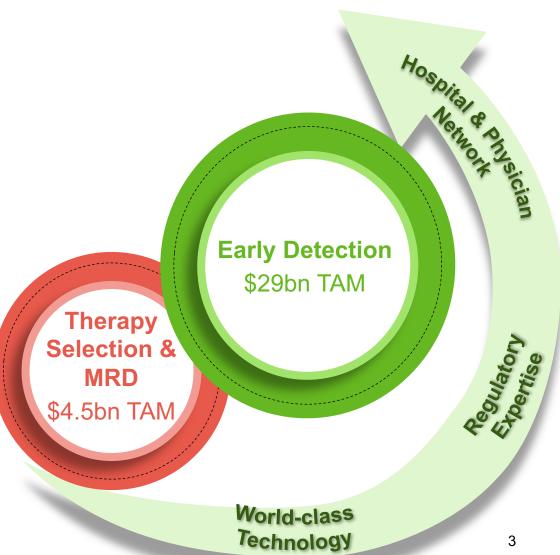
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China's molecular diagnostics leader for precision oncology



Today's topics

- 2020 recap
- Blood-based multi-cancer early detection from lab to commercialization
- Liquid biopsy therapy selection testing strengthening our position for long-term success
- 2021 priorities
- Financials

2020 recap

Therapy Selection

Leader in China's NGS-based precision oncology diagnostics market

- 273k cumulative tests completed. 72k tests completed in-hospital¹
- +33% YoY revenue growth in 2H20, +43% gross profit growth
 - +26% central-lab revenue in 2H20. 44% tests were blood-based during 2020
 - +63% in-hospital revenue in 2H20. 29 contracted hospitals for reagent kits², +10 during 2020
- Strong performance in the FDA-led SEQC2 study, results pending publication
- Leadership in NMPA's NGS approval programs in ctDNA, large tissue-based panels and CDx³

Early Detection

At the forefront of blood-based, multi-cancer early detection

- Progressed from internal R&D into large-scale clinical programs, building off our proprietary methylation-based assay
- Strong product development execution
 - 6-cancer product development completed
 - o 9-cancer test development with performance improvement in progress
 - o Preparation under way for further product development
- Accelerating commercialization

Notes:

¹ As of 31 Dec 2020, cumulative number of tests completed since inception, including multiple testing for a single patient

² As of 31 Dec 2020, excluding pipeline hospitals that are still in the process of completing contracts, excluding hospitals with only instrument sales

³ Companion diagnostics development, working alongside pharmaceutical partners

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Bringing multi-cancer early detection from lab to the real world 6-cancer test product development completed, early access initiated

Product development

Intended-use validation

Commercial roll-out

BR 6-cancer test

- Training and casecontrolled validation (completed)
- Capacity ramp-up ongoing

- Early access in progress
- Prospective validation
- Revenue generation targeted for 2022, subject to early-access feedback

BR competitive advantages

Best multi-cancer product in China

Through highly-sensitive methylation assay and large training dataset

2 Strong validation dataset

Through research collaboration with leading physicians and real-world data

First mover advantage

Increasing volume / data enables improved product performance and unit cost reduction

Path to commercialization

Positive feedback from commercial insurers and hospitals

Commercial channels



Commercial insurers

Payor market with commercial insurers



Hospitals

High-end self-pay market with top comprehensive hospitals, leveraging existing commercial relationships built as part of the therapy selection business



Cost savi

Value propositions to commercial partners

- Cost savings by discovering and treating cancers early
- Addressing unmet end-customer needs on cancer screening, with a unique multi-cancer product



- Physical check-up revenue generation, meeting unmet end-customer needs for multi-cancer screening
- Downstream revenue generation out of follow-up diagnostics and treatment
- Meeting top hospitals' demand for innovative products, leading the forefront of oncology research

Product development roadmap

Multi-year effort, high entry barriers. Real-world use provides feedback loop for product development

Single-cancer 2016 - 2019

- Results released at AACR 2019
- Lung cancer, proof of concept on assay and bioinformatics methodology
- · Manuscript on methodology under peer review

3-cancer 2017 - Jan 2020

- Results released at AACR Special Conference on Liquid Biopsy, Jan 2020
- Lung, CRC, HCC

6-cancer

2018 - Nov 2020

95.1% specificity and 80.8% sensitivity¹



Product development completed, capacity ramp-up, building validation dataset

- Results released at ESMO Asia, Nov 2020
- Lung, CRC, HCC, Ovarian, Pancreatic, Esophageal
- 98.3% specificity and 80.6% sensitivity²
- Tissue-of-origin (TOO) result in 98.6% cases; among those 81.0% were correct

Product development in progress

9-cancer 2019 – Ongoing

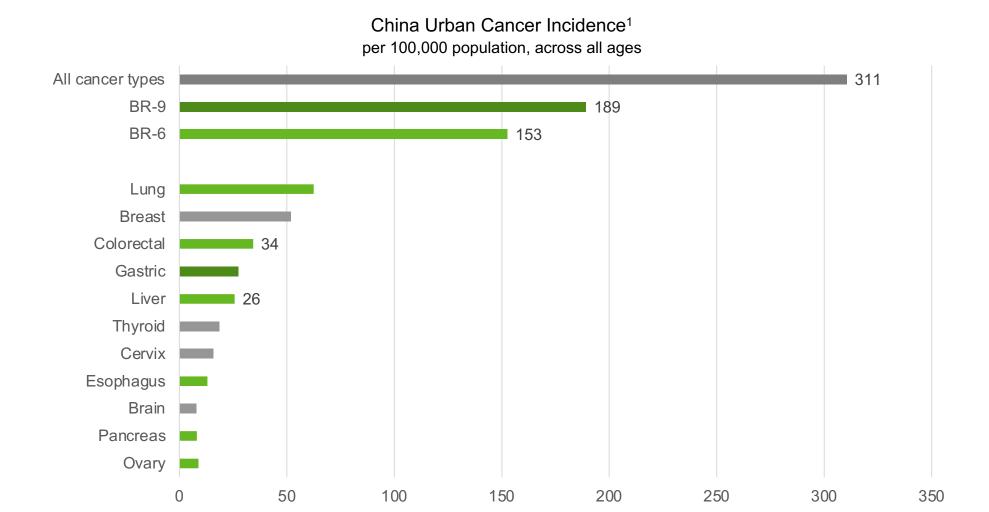
- Assay under development; training and validation to follow
- Lung, CRC, HCC, Ovarian, Pancreatic, Esophageal, Gastric, Cholangio, Head & Neck

Future product To be announced

² Validation cohort, 351 cancer samples, 288 control samples. Sample size is aggregated through a series of case-control studies. 98.3% specificity (95% CI 95.8-99.4) and 80.6% sensitivity (95% CI 76.0-84.6). Further details in Appendix.

¹ Training and validation cohorts combined, 490 cancer samples, 226 control samples. Sample size is aggregated through a series of case-control studies. 95.1% specificity (95% CI 91.2-97.4) and 80.8% sensitivity (95% CI 77.0-84.1)

Multi vs. single cancer early detection in China Multiple times larger TAM



BR-6 covers 49% of China's urban incidence by cancer type

Note:

¹ Incidence data per "2018 China Cancer Registry Annual Report", J. He et al., ISBN 978-7-117-28585-8

Multi vs. single cancer early detection in China Significantly higher technology barrier

Single-cancer test

- Established technology, typically PCR based, with readily available products
 - US First FDA approved product in 2014 (first submission in 2012)
 - China NMPA approved products (class-III, including tissue and blood-based) in 2017, 2018, 2019, 2020, 2021, etc
- Small panel, low cost
- Relatively simple genomic data analytics

Multi-cancer test

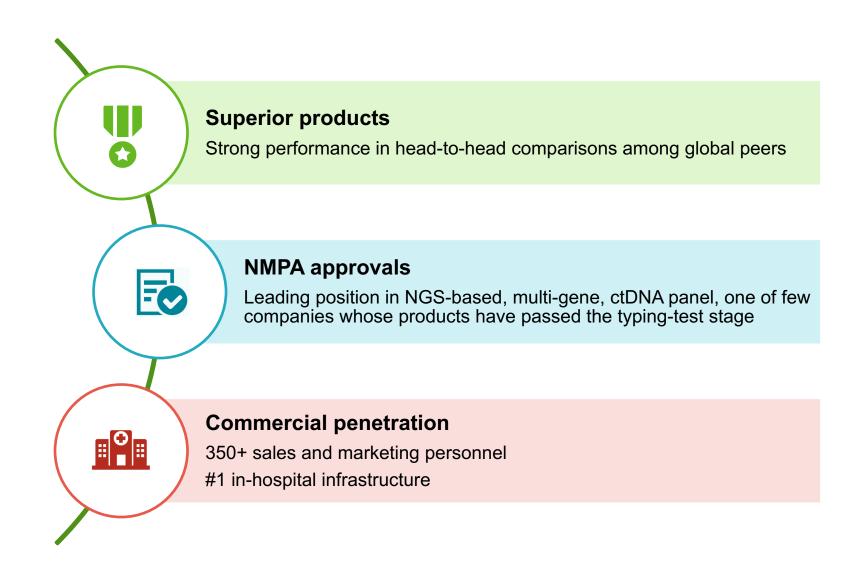
- Biologically, blood-based tests are multi-cancer in nature
- Highly complex technology with product risk
 - Globally, only a small number of innovators have locked-down products going under intendeduse validation
- Data as a key factor for development and validation
 - Evolving dataset leads to continuous product improvement and greater validation
- Unprecedented commercial potential
 - Possibility to fundamentally shift oncology landscape from late-stage therapeutics to earlier stage intervention

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Factors for long-term success

Product as the core factor. NMPA approvals enable competitive differentiation



FDA-led SEQC2 (sequencing quality control) consortium study

SEQC2 Study Overview

MAQC/SEQC Consortium Projects – An Overview



Issues and Study Objectives



- An FDA-led community-wide consortium effort to assess technical performance and application of emerging technologies (e.g., genomics).
- Accomplishments (2005 2014):
 - Evaluated 3 genomics technologies: microarrays (MAQC1-2), GWAS (MAQC2) and RNA-seq (MAQC3/SEQC1)
 - Best practice recommendation papers published at Nat Biotech
 - Supported the FDA development of the guidance document
- SEQC2 (2016 2021):
 - 4 Working Groups Somatic Mutations, Oncopanel Sequencing, Germline WGS, Epigenetics QC
 - Over 20 manuscripts, five of them have been accepted by Nat **Biotech**





- FDA approved several NGS tests with sensitivity for AF ~5%
- Hundreds lab developed tests (LDT): sensitivity ~ 2-10%
- FDA approved ctDNA tests with sensitivity for AF ~0.3%
- Publications claimed detection sensitivity for deep NGS tests (of ctDNA through UMI) could reach lower AF and even 0.01%
 - Lack of concordance reported b/w liquid biopsy test labs
 - Key concerns for LBx: concordance with tissue sequencing, concordance across labs, concordance across LBx panels/tests

Comprehensive QC with Reference Samples is crucial for translating oncopanels from lab dev to clinical application !!!

Liquid **Biopsy** Section

Objectives for Liquid Biopsy Core Study

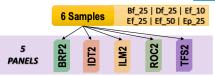


Samples for Liquid Biopsy Panels



- Aim to evaluate
 - Reproducibility
 - Sensitivity of Known Positives
 - False positive rate estimate through Known Negatives
 - All of them by VAF ranges:
 - 0.1 0.5%, 0.5 2.5%, >2.5%
 - Finer VAF ranges for sensitivity: 0.1 0.2%, 0.2 0.3%, 0.3 0.5%
- Evaluate the impact of DNA input amount
 - Three levels of input for Ef: 10ng, 25ng, 50ng
- Evaluate the impact of synthetic plasma (DNA extraction)
 - Qubit HS calibration and quantification
 - Calculate extraction vield

- ➤ Centralized sample preparation
 - ➤ Enzymatic fragmentation -> better ligation efficiency
 - ➤ Gel-based size selection (160bp-180bp) to mimic cfDNA
 - ▶1ng/ul to mimic concentration after DNA extraction from plasma
 - ➤ Ep: 40ng/ml Ef in synthetic plasma



BRP2: Burning Rock Dx LungPlasma IDT2: IDT xGen Non-Small Cell Lung

Cancer **ILM2:** Illumina TruSight 170 with

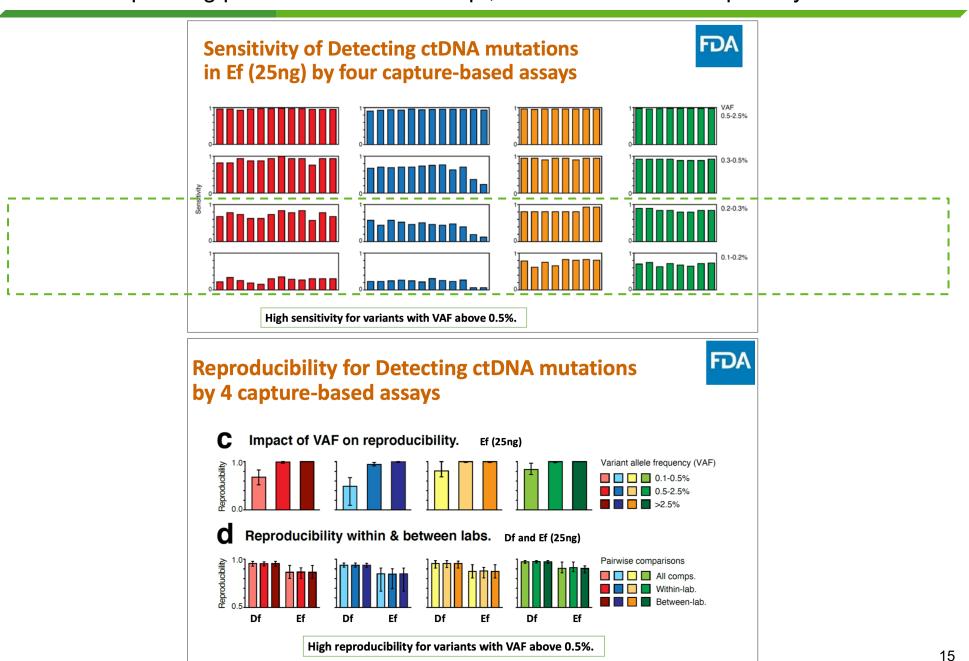
UMI ROC2: Roche AVENIO ctDNA

Expanded Kit

TFS2: Thermo Fisher Oncomine Lung cfDNA Assay

Liquid biopsy results

Full results pending publication of manuscript, which has been accepted by Nature Biotech



Source:

Liquid biopsy NMPA progress update BR OncoCompass Target in leading position for multi-gene ctDNA NMPA approval process

NMPA¹ diagnostics approval process overview









Analytical Validation

Typing Test

Clinical Validation

- Concordance study
- CDx collaborations

Review & Approval

BR's OncoCompass™ Target kit & software

- √ 101 genes + bMSI
- ✓ Multiple CDx co-development collaborations
- ✓ Typing test passed in Oct 2020
- ✓ Concordance study planned for 2H2021

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2021 priorities

Therapy Selection

Driving increased penetration of NGS-based diagnostics through product and commercial strengths

- Expansion of product menu
 - Completing tech transfer and validation of in-licensed products (myChoice HRD testing¹, DetermaRx²)
 - Additional products under R&D
- NMPA registration program execution, laying the foundation of long-term competitive barrier
- Further in-hospital penetration

Early Detection

Bringing multi-cancer early detection towards real-world use

- Ramping up 6-cancer test capacity, in preparation for commercialization
- Multi-channel commercial team build-out
- Ongoing NMPA dialogues
- Roll-out of additional large clinical programs for product development and validation
- Additional R&D on future products

Notes

¹ Myriad myChoice CDx test enables physicians to identify patients with tumors that have lost the ability to repair double-stranded DNA breaks, resulting in potentially increased susceptibility to DNA-damaging drugs such as platinum drugs or PARP inhibitors. In May 2020, the FDA approved myChoice CDx for use as a companion diagnostic to identify patients with advanced ovarian cancer with HRD-positive status, who are eligible or may become eligible for first-line maintenance treatment with Lynparza (olaparib) in combination with bevacizumab.

² DetermaRx is a treatment stratification test that identifies stage I-IIA non-squamous NSCLC patients at high-risk of recurrence despite ostensibly curative surgery, who may benefit from the addition of chemotherapy.

Today's topics

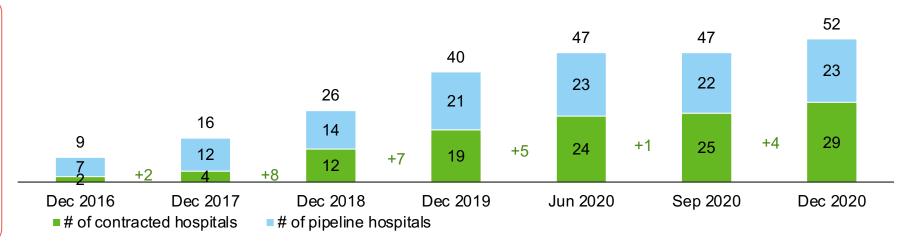
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Operating metrics

Centrallab channel

	2018	2019	2020	1Q19	2Q19	3Q19	4Q19	1Q20	2Q20	3Q20	4Q20
# of ordering hospitals	263	335	312	249	265	281	304	232	284	289	294
# of ordering physicians	1,135	1,632	1,318	984	1,059	1,155	1,222	810	1,175	1,194	1,114
# of patients tested1	15,821	23,075	25,262	5,336	6,047	6,769	7,576	4,680	7,252	8,644	7,989
YoY	67%	46%	9%					-12%	20%	28%	5%
QoQ									55%	19%	-8%





Note:

⁽¹⁾ A patient who took multiple tests in different quarters of a given year is counted only once for that year

Financials

RMB millions	2019	2020	18 YoY	19 YoY	20 Yo Y	1Q19	2Q19	3Q19	4Q19	1Q20	2Q20	3Q20	4Q20	2H20 YoY	4Q20 YoY	4Q20 QoQ	2021 Guide
Revenue	381.7	429.9	88%	83%	13%	104.5	84.8	103.7	88.7	67.3	107.0	123.9	131.7	33%	49%	6%	610
Central lab	276.3	297.3	83%	71%	8%	72.8	63.4	69.3	70.8	46.1	74.6	89.9	86.7	26%	23%	(4%)	
In-hospital	87.7	117.9	209%	164%	34%	26.6	16.3	30.7	14.1	17.1	27.6	31.7	41.5	63%	194%	31%	
Pharma	17.7	14.7	15%	25%	(17%)	5.1	5.1	3.7	3.8	4.1	4.8	2.3	3.6	(21%)	(7%)	57%	
Gross profit	273.3	313.9	88%	102%	15%	78.1	62.1	78.2	55.0	44.8	78.4	91.6	99.2	43%	80%	8%	
Total opex	442.4	726.3	54%	49%	64%	89.7	90.5	111.8	150.5	104.1	151.4	216.2	254.6	79%	69%	18%	
R&D ¹	147.5	214.1	114%	43%	45%	30.7	34.3	36.8	45.7	37.9	45.9	58.7	71.6	58%	57%	22%	
S&M ¹	152.0	165.1	52%	49%	9%	26.3	34.4	42.1	49.3	29.6	37.5	43.9	54.2	7%	10%	23%	
G&A ¹	120.8	174.6	18%	40%	44%	31.2	20.0	29.8	39.8	32.6	40.6	44.9	56.5	46%	42%	26%	
SBC ²	22.1	172.5				1.5	1.8	3.1	15.7	4.0	27.4	68.7	72.3				
Operating profit	(169.1)	(412.4)				(11.6)	(28.5)	(33.6)	(95.5)	(59.3)	(73.0)	(124.6)	(155.4)				
GP margin	71.6%	73.0%				74.8%	73.2%	75.4%	62.0%	66.5%	73.3%	73.9%	75.3%				
Opex / revenue	116%	169%				86%	107%	108%	170%	155%	142%	175%	193%				
S&M / revenue	40%	39%				26%	41%	41%	55%	44%	36%	36%	43%				

Notes

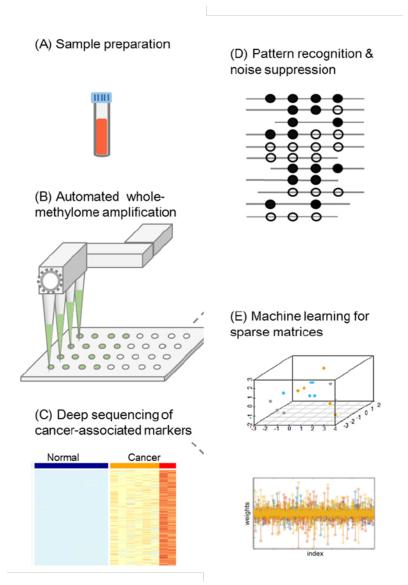
¹ Excluding share based compensation (SBC)

² Share based compensation



Burning Rock early detection technology – ELSA-seq

R&D started in 2016; combination of targeted deep methylation sequencing and machine learning



Technology Highlights:

- ✓ Single-stranded library prep starts as low as 1ng cfDNA
- ✓ Bisulfite conversion or enzymatic conversion compatible
- Intelligent probe design to maintain the methylation level fidelity
- Multiple noise reduction and signal corrections before machine-learning model building

Clinical progress

Marker discovery (tissue)



Panel validation (tissue and blood)



Assay validation (blood)

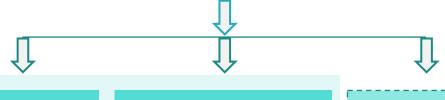


~5.5 million CpG sites LC/CRC/LIHC/OVCA/PAAD/ESCA

~450,000 CpG sites TCGA & GEO database







Tr	aining S	et	Validation Set					
LC	CRC	LIHC	LC	CRC	LIHC			
OVCA	PDAC	ESCA	OVCA	PDAC	ESCA			
	CTRL			CTRL				

Additional Validation

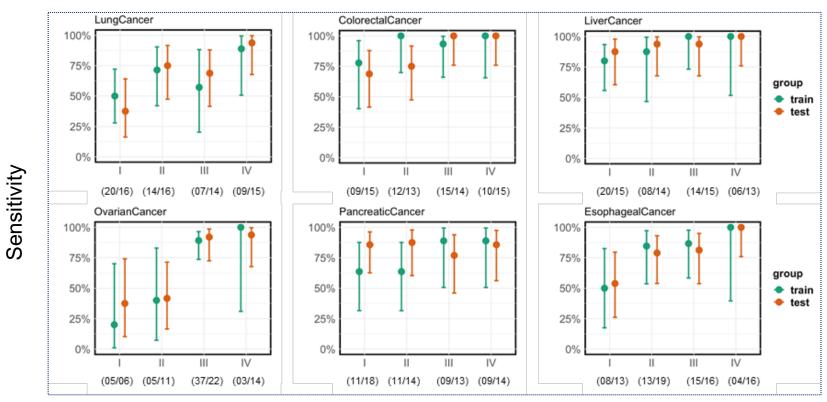
Overview of training and validation sets Comparable cancer and non-cancer groups

Training	Control	Cancer	LC	CRC	LIHC	OVCA	PAAD	ESCA
total	195	274	50	46	48	50	40	40
age, mean+/-SD	53+/-6	57+/-8	60+/-6	60+/-8	55+/-8	50+/-8	59+/-7	57+/-6
age, min/max	40/72	40/75	47/74	44/75	43/72	40/73	42/71	45/70
sex, female, n (%)	128 (70)	110 (40)	16 (32)	21 (46)	4 (8)	50 (100)	14 (35)	5 (13)
clinical stage, n (%)								
I		73 (27)	20 (40)	9 (20)	20 (41)	5 (10)	11 (27)	8 (20)
II		63 (23)	14 (28)	12 (26)	8 (17)	5 (10)	11 (27)	13 (33)
III		97 (35)	7 (14)	15 (32)	14 (29)	37 (74)	9 (23)	15 (37)
IV		41 (15)	9 (18)	10 (22)	6 (13)	3 (6)	9 (23)	4 (10)

Validation	Control	Cancer	LC	CRC	LIHC	OVCA	PAAD	ESCA
total	288	351	61	57	57	53	59	64
age, mean+/-SD	54+/-6	59+/-8	62+/-7	61+/-9	54+/-8	54+/-7	61+/-9	62+/-6
age, min/max	40/74	40/75	45/74	44/75	40/73	42/68	40/74	46/74
sex, female, n (%)	171 (59)	146 (42)	22 (36)	21 (37)	9 (16)	53 (100)	19 (32)	22 (34)
clinical stage, n (%)								
I		83 (23)	16 (26)	15 (26)	15 (26)	6 (11)	18 (30)	13 (20)
II		87 (25)	16 (26)	13 (23)	14 (25)	11 (21)	14 (24)	19 (30)
III		94 (27)	14 (23)	14 (25)	15 (26)	22 (42)	13 (22)	16 (25)
IV		87 (25)	15 (25)	15 (26)	13 (23)	14 (26)	14 (24)	16 (25)

- 1. Similar age distribution between cases and controls, and between training set and validation set
- 2. Balanced sample size among different stages and cancer types

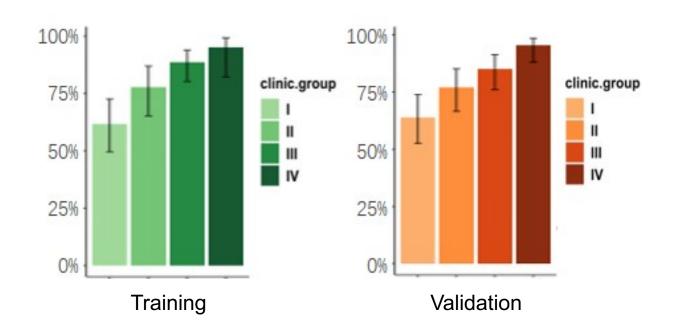
Our test detects cancers at early stage with high specificity and high sensitivity

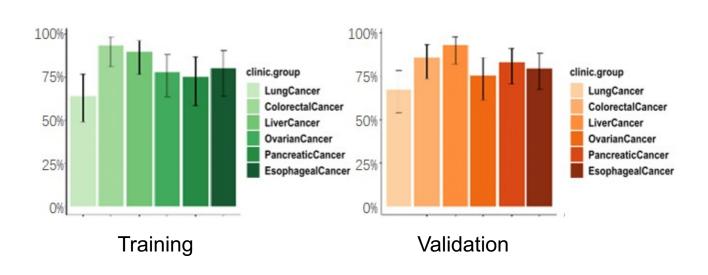


Clinical Stages (# in Training / # in Validation)

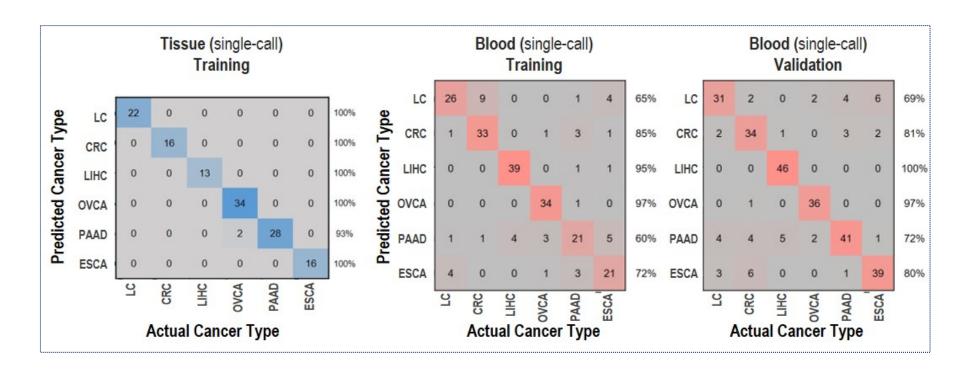
- The specificity was **99.5%** (95%CI: 96.7-100%; training) and **98.3%** (95%CI: 95.8-99.4%; validation)
- The sensitivity was **79.9%** (95%CI: 74.6-84.4%; training) and **80.6%** (95%CI: 76.0-84.4%; validation)

Our test detects cancers at early stage with high specificity and high sensitivity





Our test predicts the tissue of origin with high accuracy



- The classifier was able to distinguish different cancer tissue samples with exceptional accuracy (129/131).
- 98.6% of detected cancer blood samples were assigned an organ-source in both training and validation sets:
 - For single organ calls, the predictive accuracy was 79% (training) and 82% (validation);
 - o For top-two organ calls, the predictive accuracy was 89% (training) and 87% (validation).

6-cancer test sensitivity by cancer type and stage

Sensitivity and Specificity - Correct#/Total# (%)

Cancer	Group	1	II	III	IV	Overall
Luna	Train	10/20 (50.0)	10/14 (71.4)	4/7 (57.1)	8/9 (88.9)	32/50 (64.0)
Lung	Test	6/16 (37.5)	12/16 (75.0)	9/14 (64.3)	14/15 (93.3)	41/61 (67.2)
Colorectal	Train	7/9 (77.8)	12/12 (100.0)	14/15 (93.3)	10/10 (100.0)	43/46 (93.5)
Colorectal	Test	10/15 (66.7)	10/13 (76.9)	14/14 (100.0)	15/15 (100.0)	49/57 (86.0)
Liver	Train	16/20 (80.0)	7/8 (87.5)	14/14 (100.0)	6/6 (100.0)	43/48 (89.6)
Livei	Test	13/15 (86.7)	13/14 (92.9)	14/15 (93.3)	13/13 (100.0)	53/57 (93.0)
Ovarian	Train	1/5 (20.0)	2/5 (40.0)	33/37 (89.2)	3/3 (100.0)	39/50 (78.0)
Ovarian	Test	2/6 (33.3)	5/11 (45.5)	20/22 (90.9)	13/14 (92.9)	40/53 (75.5)
Donorostio	Train	7/11 (63.6)	7/11 (63.6)	8/9 (88.9)	8/9 (88.9)	30/40 (75.0)
Pancreatic	Test	15/18 (83.3)	12/14 (85.7)	10/13 (76.9)	12/14 (85.7)	49/59 (83.1)
Esophageal	Train	4/8 (50.0)	11/13 (84.6)	13/15 (86.7)	4/4 (100.0)	32/40 (80.0)
Loopilageal	Test	7/13 (53.8)	15/19 (78.9)	13/16 (81.3)	16/16 (100.0)	51/64 (79.7)

Sensitivity	Train			219/274 (79.9)
Sensitivity	Test			283/351 (80.6)
Cuanificity	Train			194/195 (99.5)
Specificity	Test			283/288 (98.3)