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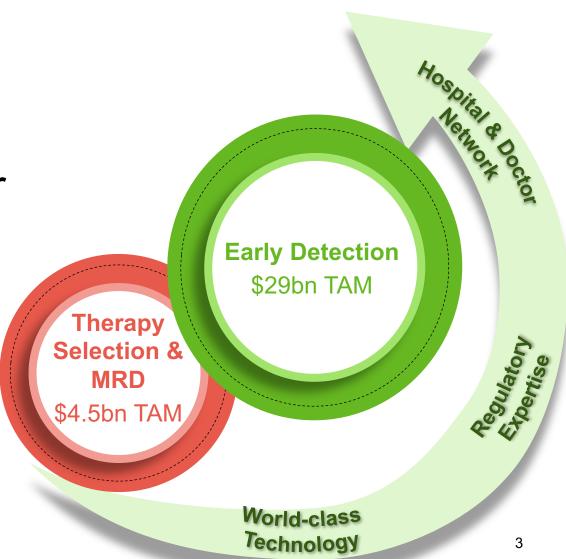
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China's molecular diagnostics leader for precision oncology



#### Our focus

#### **Therapy Selection**

- Expand leadership in the China market, based on product performance and quality, for both tissue- and liquid-based NGS testing
- Enable higher NGS testing penetration through kit-based in-hospital channel, complementing existing central-lab based testing

#### **Early Detection**

 Be at the forefront of global R&D on bloodbased pan-cancer early detection, through in-house R&D and clinical collaborations with top physicians and hospitals in China

#### Our team



Yusheng Han Founder, Chairman, CEO





Columbia Business School AT THE VERY CENTER OF BUSINESS™













Joe Zhihong Zhang, Ph.D. Chief Technology Officer









Leo Li Director, Chief Financial Officer

Morgan Stanley





Hao Liu **Chief Medical Officer** 





### Today's topics

# Early Detection

- Product roadmap update
- 6-cancer test validation data released at ESMO Asia Virtual Congress 2020

#### Therapy Selection

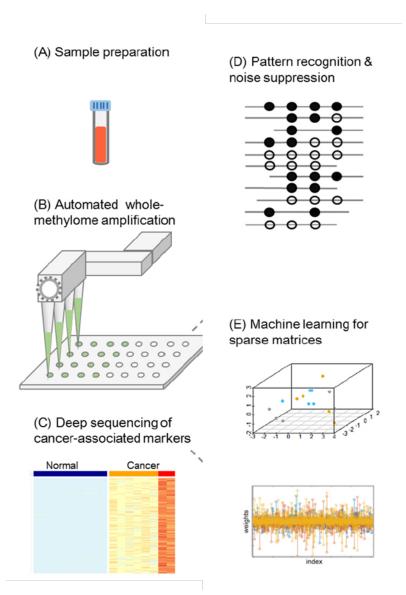
- MagnisBR analytical validation data released at Association for Molecular Pathology (AMP) Annual Meeting
- Myriad myChoice HRD test in-licensing

#### Numbers

- 3Q20 operating metrics
- 3Q20 financials

# Burning Rock early detection technology – ELSA-Seq R&D started in 2016

Combination of targeted deep methylation sequencing and machine learning



#### **Technology Highlights:**

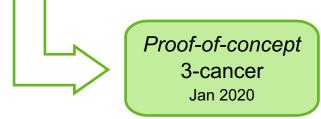
- Single-stranded library prep starts as low as 1ng cfDNA
- Bisulfite conversion or enzymatic conversion compatible
- Intelligent probe design to maintain the methylation level fidelity
- Multiple noise reduction and signal corrections before machine-learning model building

### Early detection product development roadmap

#### Latest progress – expanded from 3 to 6 cancer types with improved specificity

Proof-of-concept Single-cancer 2019

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



- Completed. Results released at AACR Special Conference on Liquid Biopsy, Jan 2020
- Lung, CRC, HCC
- 95.1% specificity (95% CI 91.2-97.4) and 80.8% sensitivity (95% CI 77.0-84.1)<sup>1</sup>



- Completed. Results released at ESMO Asia, 20<sup>th</sup> Nov 2020
- Lung, CRC, HCC, Ovarian, Pancreatic, Esophageal
- <u>98.3% specificity</u> (95% CI 95.8-99.4) and 80.6% sensitivity (95% CI 76.0-84.6)<sup>2</sup>
- Tissue-of-origin (TOO) result in 98.6% cases; among those 81.0% (95%CI: 77.2-84.3%) were correct



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

#### Notes:

<sup>&</sup>lt;sup>1</sup> Training and validation cohorts combined, 490 cancer samples, 226 control samples. Sample size numbers are aggregated, through a series of case-control studies.

<sup>&</sup>lt;sup>2</sup> Validation cohort, 351 cancer samples, 288 control samples. Sample size numbers are aggregated, through a series of case-control studies.

# Clinical progress

~5.5 million CpG sites ~450,000 CpG sites **Marker discovery** LC/CRC/LIHC/OVCA/PAAD/ESCA TCGA & GEO database (tissue) ~160,000 CpG sites **Panel validation** LC/CRC/LIHC/OVCA/PAAD/ESCA/Control (tissue and blood) **Assay validation Training Set Validation Set Additional** (blood) **Validation** CRC LC LIHC CRC LC LIHC **OVCA** PDAC **ESCA** OVCA PDAC **ESCA** CTRL CTRL

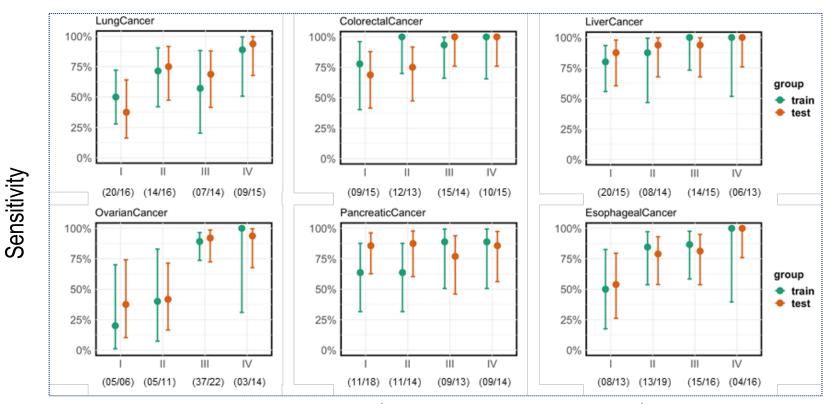
# Overview of training and validation sets Comparable cancer and non-cancer groups

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

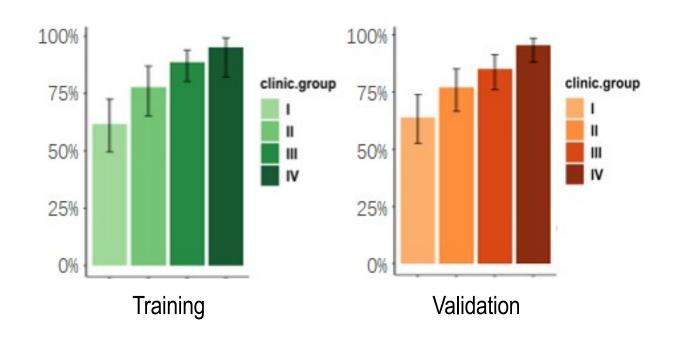
#### Our test detects cancers at early stage with high specificity and high sensitivity

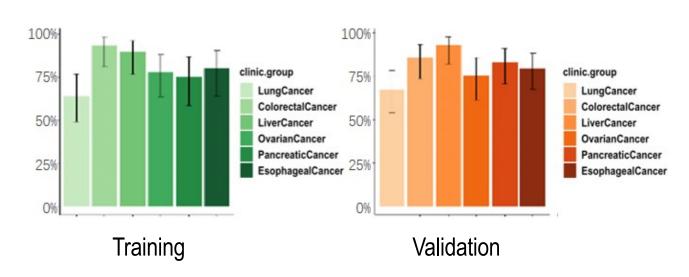


Clinical Stages (# in Training / # in Validation)

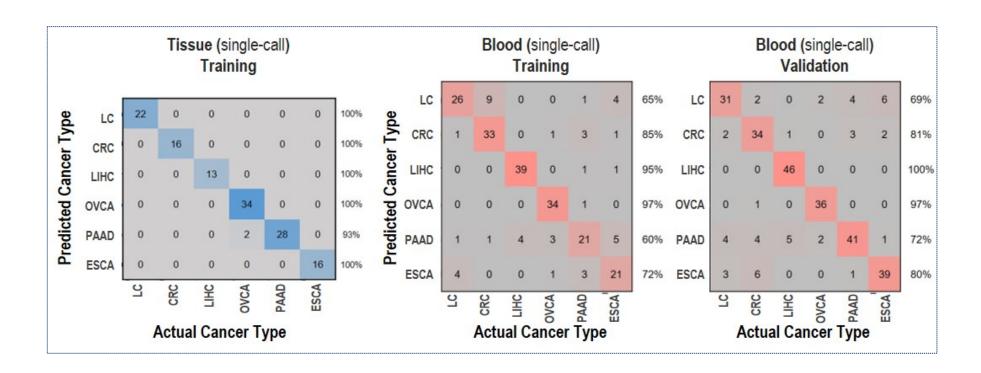
- The specificity was **99.5%** (95%CI: 96.7-100%; training) and **98.3%** (95%CI: 95.8-99.4%; validation).
- The sensitivity was **79.9%** (95%CI: 74.6-84.4%; training) and **80.6%** (95%CI: 76.0-84.4%; validation).

### 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:
  - o For single organ calls, the predictive accuracy was **79%** (training) and **82%** (validation);
  - For top-two organ calls, the predictive accuracy was 89% (training) and 87% (validation).

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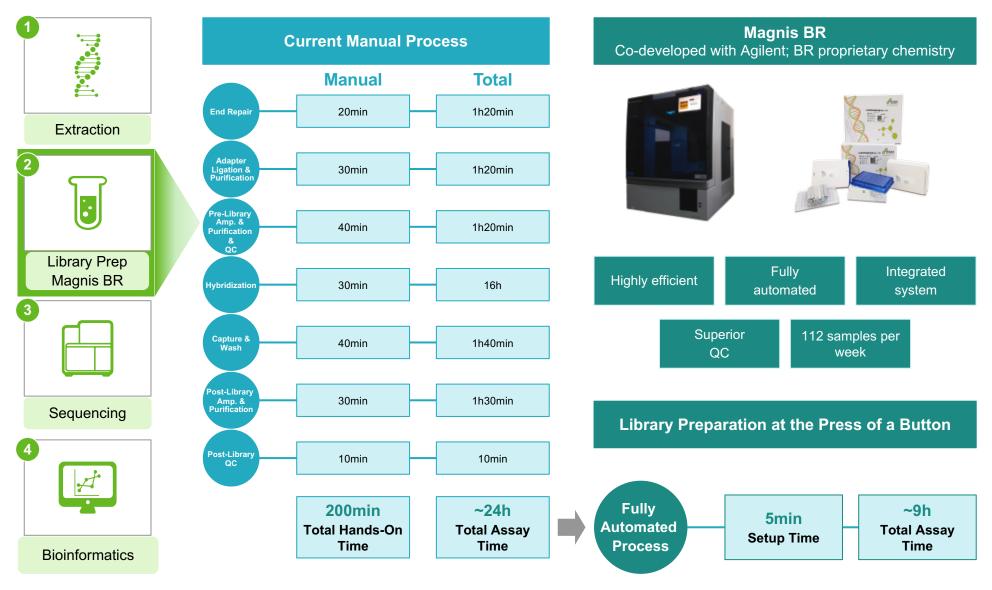
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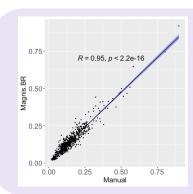
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# Magnis BR: a turn-key solution for hospitals

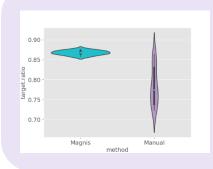


# **Analytical Validation of Magnis BR Assay**

#### **OncoScreen IO Tissue assay**



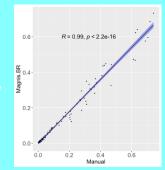
In 16 clinical FFPE samples. The concordance rate for total 717 variants was 98.7%, and 100% for MSI status (Jaccard Index).



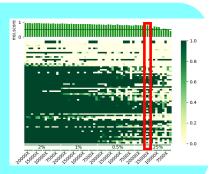
Magnis BR improved the capture on-target ratio by an average of 8% (86% vs 78%).

#### **OncoCompass Target cfDNA Assay**

In 34 Clinical cfDNA samples, the concordance rate for total 120 variants VV was 97.5%.



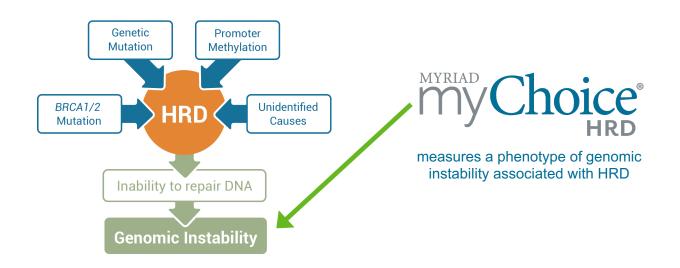
The sensitivity of MSI detection achieved 100% under the tumor cell fraction of 0.25% at median sequencing depth of 15000X.





Analytical validation performed on our top-selling 520-gene tissue and 168-gene liquid panels

# Myriad myChoice® HRD test in-licensing



#### FDA CDx approval: tBRCAm and/or genomic instability score (GIS) ≥ 42

Drug and Cancer	Indication	Trial and Approval Date
Olaparib (AZ)	First-line maintenance treatment of HRD-	PAOLA-1, May 8, 2020
Ovarian Cancer	positive advanced ovarian cancer in	
	combination with Bevacizumab	
Niraparib (GSK)	Advanced HRD-positive ovarian cancer	QUADRA, Oct 23, 2019
Ovarian Cancer	after three or more chemotherapies	

Indication approved in China: Olaparib 1st line maintenance treatment of BRCA-mutated advanced ovarian cancer

# Myriad myChoice® HRD in-licensing

- Immediately addressable market (on-label use): first-line aOC patients with maintenance therapy: ~10000-15000 annually
- Drugs and cancer types being studied using myChoice<sup>®</sup> HRD as a companion or exploratory biomarker:
  - ✓ Olaparib: HER2- breast cancer
  - ✓ Niraparib: ovarian cancer
  - ✓ Veliparib: ovarian cancer, pancreatic cancer
  - ✓ Talazoparib: triple-negative breast cancer
  - ✓ Pamiparib: locally advanced or metastatic solid tumors

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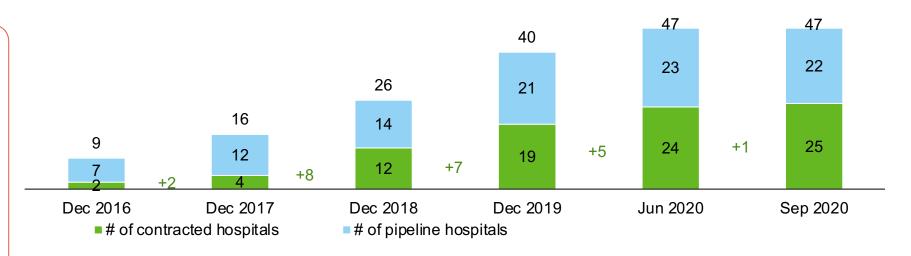
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# Operating metrics

Centrallab channel

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





• Magnis BR placed in more than 10 hospitals; Revenue booked for 1 instrument in Jan 2020 during 9M20

Note:

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

# Financials

RMB millions	2019	18 YoY	19 YoY	1Q19	2Q19	3Q19	4Q19	1Q20	2Q20	3Q20	1Q20 YoY	2Q20 YoY	3Q20 YoY	3Q20 QoQ	2020 Guide
Revenue	381.7	88%	83%	104.5	84.8	103.7	88.7	67.3	107.0	123.9	-36%	26%	19%	16%	420
Central lab	276.3	83%	71%	72.8	63.4	69.3	70.8	46.1	74.6	89.9	-37%	18%	30%	21%	
In-hospital	87.7	209%	164%	26.6	16.3	30.7	14.1	17.1	27.6	31.7	-36%	69%	3%	15%	
Pharma	17.7	15%	25%	5.1	5.1	3.7	3.8	4.1	4.8	2.3	-20%	-6%	-39%	-52%	
Gross profit	273.3	88%	102%	78.1	62.1	78.2	55.0	44.8	78.4	91.6	-43%	26%	17%	17%	
Total opex	442.4	54%	49%	89.7	90.5	111.8	150.5	104.1	151.4	216.2	16%	67%	93%	43%	
R&D (excl. SBC)	147.5	114%	43%	30.7	34.3	36.8	45.7	37.9	45.9	58.7	24%	34%	60%	28%	
S&M (excl. SBC)	152.0	52%	49%	26.3	34.4	42.1	49.3	29.6	37.5	43.9	12%	9%	4%	17%	
G&A (excl. SBC)	120.8	18%	40%	31.2	20.0	29.8	39.8	32.6	40.6	44.9	5%	102%	50%	10%	
SBC	22.1			1.5	1.8	3.1	15.7	4.0	27.4	68.7					
Operating profit	(169.1)			(11.6)	(28.5)	(33.6)	(95.5)	(59.3)	(73.0)	(124.6)					
GP margin	71.6%			74.8%	73.2%	75.4%	62.0%	66.5%	73.3%	73.9%					
Total opex / revenue	116%			86%	107%	108%	170%	155%	142%	175%					
S&M expenses	40%			26%	41%	41%	55%	44%	36%	36%					

# Appendix

# 6-cancer test sensitivity by cancer type and stage

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

Cancer	Group	1	II	III	IV	Overall
Lung	Train	10/20 (50.0)	10/14 (71.4)	4/7 (57.1)	8/9 (88.9)	32/50 (64.0)
	Test	6/16 (37.5)	12/16 (75.0)	9/14 (64.3)	14/15 (93.3)	41/61 (67.2)
Colorootal	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)
Liver	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)
Donovostio	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)
Laopilageal	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)
Specificity	Train			194/195 (99.5)
Specificity	Test			283/288 (98.3)