## **LEAP THERAPEUTICS**

company presentation

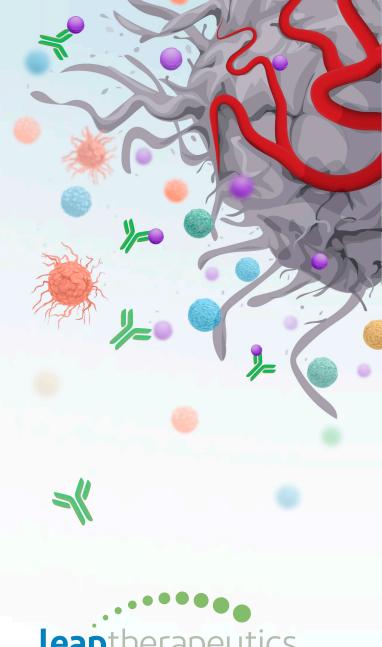
**40<sup>th</sup> Annual JPMorgan Healthcare Conference** 

Douglas E. Onsi

President and CEO

January 13, 2022







### **Forward looking statements**

This presentation contains forward-looking statements that involve substantial risks and uncertainties.

All statements, other than statements of historical facts, contained in this presentation, including statements regarding our strategy, future operations, future financial position, future revenues, projected costs, prospects, plans and objectives of management, are forward-looking statements within the meaning of U.S. securities laws.

The words "anticipate," "believe," "estimate," "expect," "intend," "may," "plan," "predict," "project," "target," "potential," "will," "would," "could," "should," "continue," and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words.

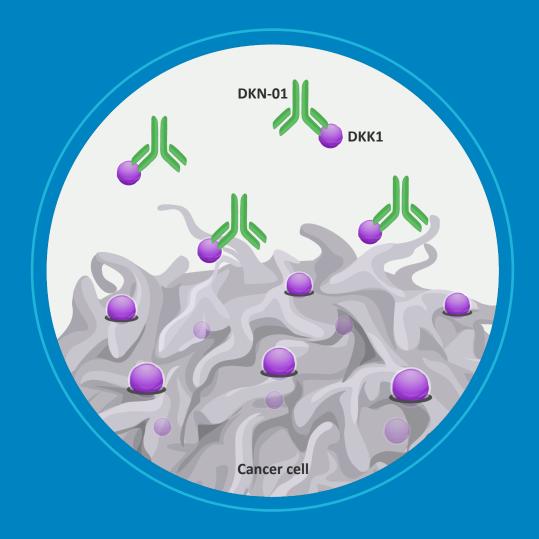
Forward-looking statements are neither historical facts nor assurances of future performance. Instead, they are based only on our current beliefs, expectations and assumptions regarding the future of our business, future plans and strategies, projections, anticipated events and trends,

the economy and other future conditions. Because forward-looking statements relate to the future, they are subject to inherent uncertainties, risks and changes in circumstances that are difficult to predict and many of which are outside of our control. We may not actually achieve the plans, intentions or expectations disclosed in our forwardlooking statements, and you should not place undue reliance on our forward-looking statements. Actual results or events could differ materially from the plans, intentions and expectations disclosed in the forward-looking statements we make. These and other risk factors are listed from time to time in reports filed with the Securities and Exchange Commission, including, but not limited to, our Annual Reports on Form 10-K and our Quarterly Reports on Form 10-Q. We assume no obligation to update any forward-looking statements, except as required by applicable law.

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### **Investment highlights**





Biomarker-targeted development



Single agent activity in three indications



Combinations with checkpoint inhibitors and chemotherapy



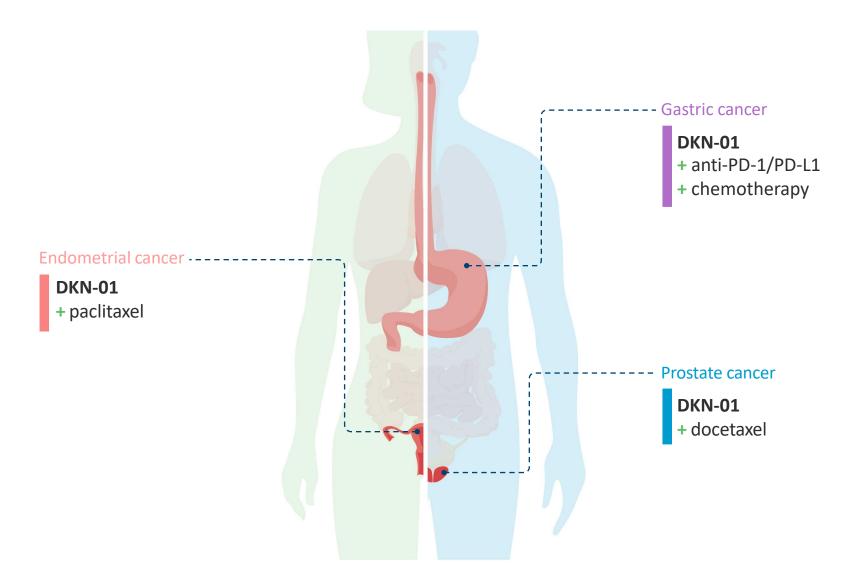
Strategic partnership with BeiGene



Important milestones in 2022



### **DKN-01:** broad applications in oncology



Leap Therapeutics clinical stage oncology
company developing
DKN-01, a monoclonal
antibody which targets

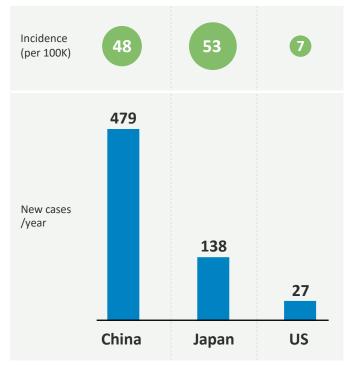
the DKK1 protein



### Strategic partnership with BeiGene

# Leap offers novel therapy to large unmet need in Asia in gastric cancer

#### **Gastric cancer:**



1,089,103 New cases 2020 768,793 Deaths 2020

High incidence of gastric cancer in Asia Incidence of gastric cancer in China/Japan/US

# BeiGene offers expertise in clinical development and commercialization in Asia



#### > \$10M

Option exercise fee based on data from DKN-01 plus tislelizumab combination studies in gastric cancer

#### \$132M

Total option exercise, clinical, regulatory, and commercial milestones

#### \$15.25M

Total payments to date:

\$3M Option fee \$12.25M Equity Investment

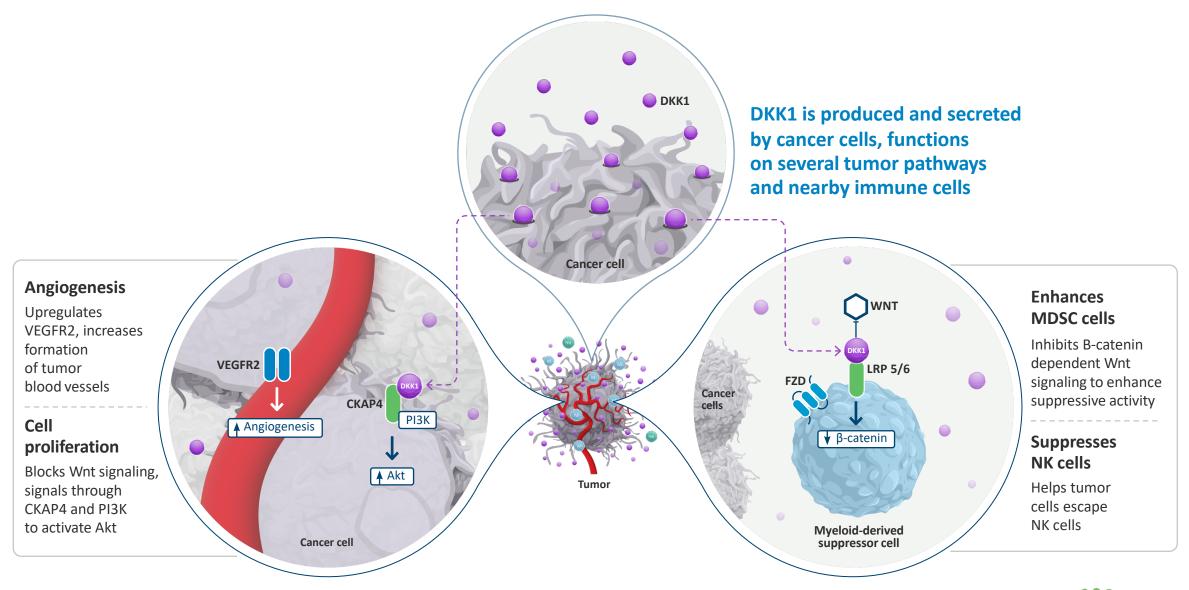
### **Royalties**

High single digits to mid-teen double digits





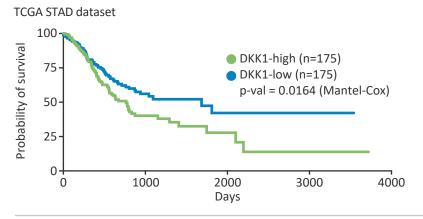
### The role of DKK1 in cancer





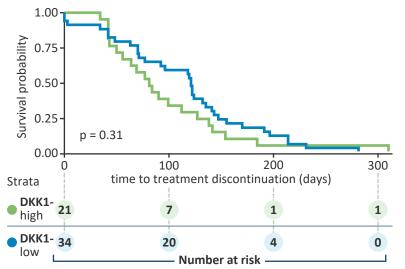
### **DKK1-high levels are associated with poor survival**

High levels of DKK1 correlate with shorter overall survival In gastric cancer

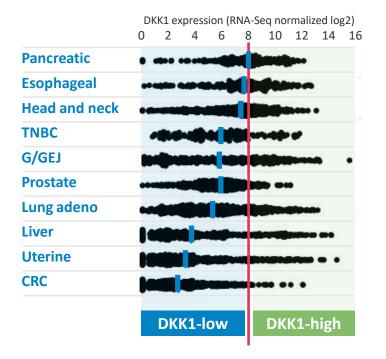


DKK1-high is associated with poor response to first-line platinum + fluoropyrimidine based therapies in GEJ/gastric cancer patients

Collaboration with Tempus



#### **DKK1** expression data (TCGA):



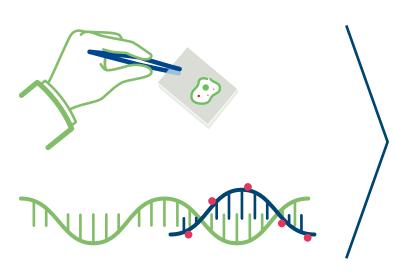




~2.5 years shorter OS in DKK1-high patients



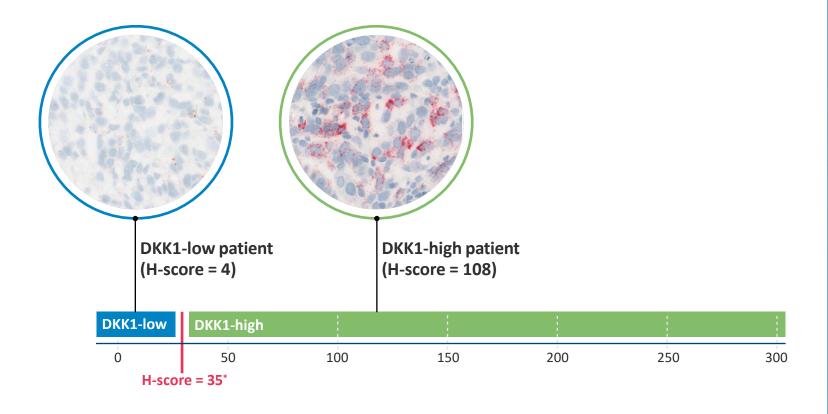
### **DKK1** expression determined using RNAscope



## Chromogenic *in situ* hybridization RNAscope

The biopsy sample is stained to identify DKK1 mRNA

Pathologist determines histology score (H-score), measuring DKK1 expression rather than protein itself

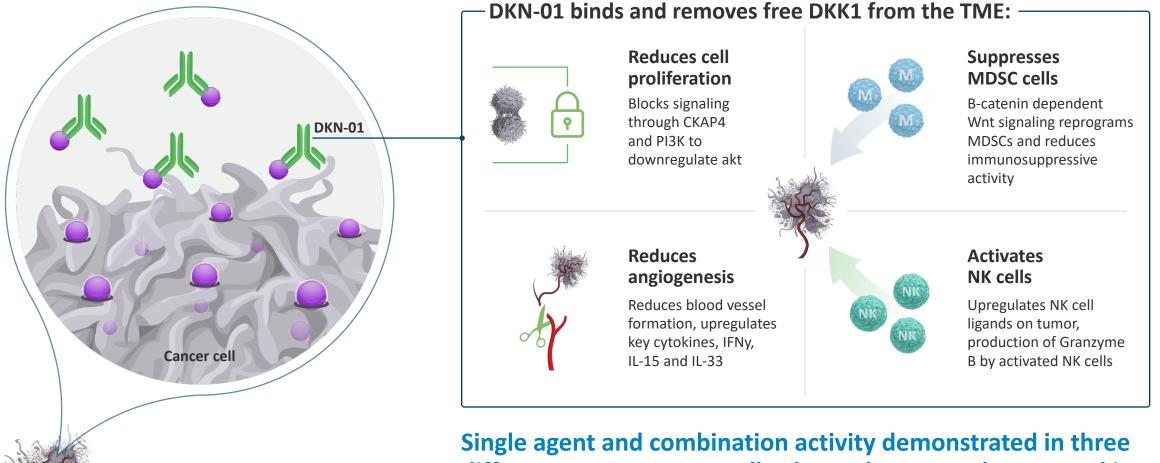


Each red dot is an individual mRNA for DKK1 Number of cells and intensity of staining is converted to H-score





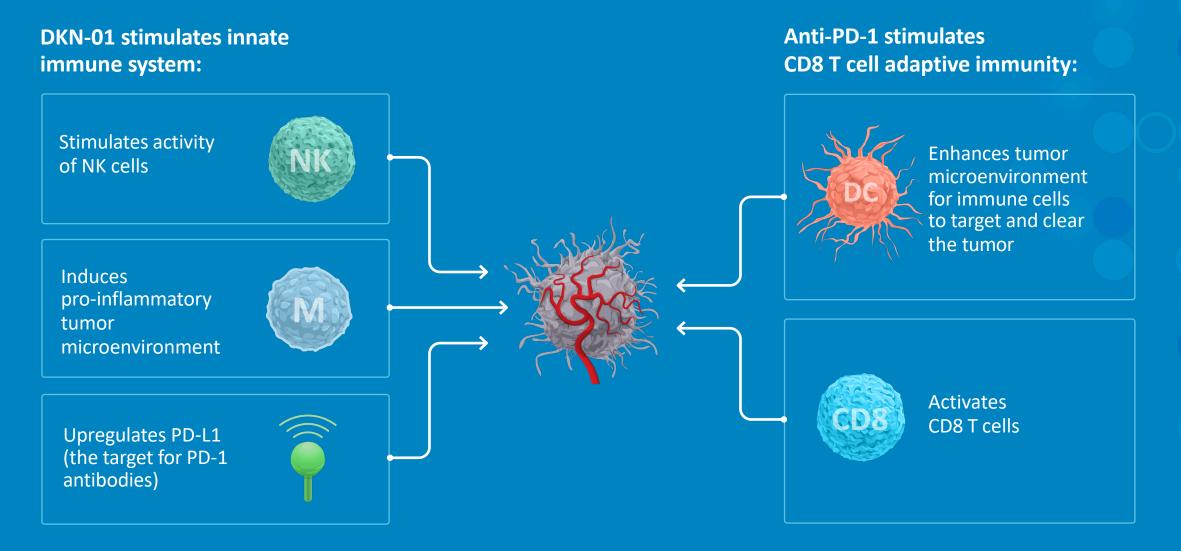
### DKN-01 - an anti-DKK1 antibody



Single agent and combination activity demonstrated in three different tumor types. Well-tolerated as monotherapy and in combination with chemotherapy or checkpoint inhibitors.

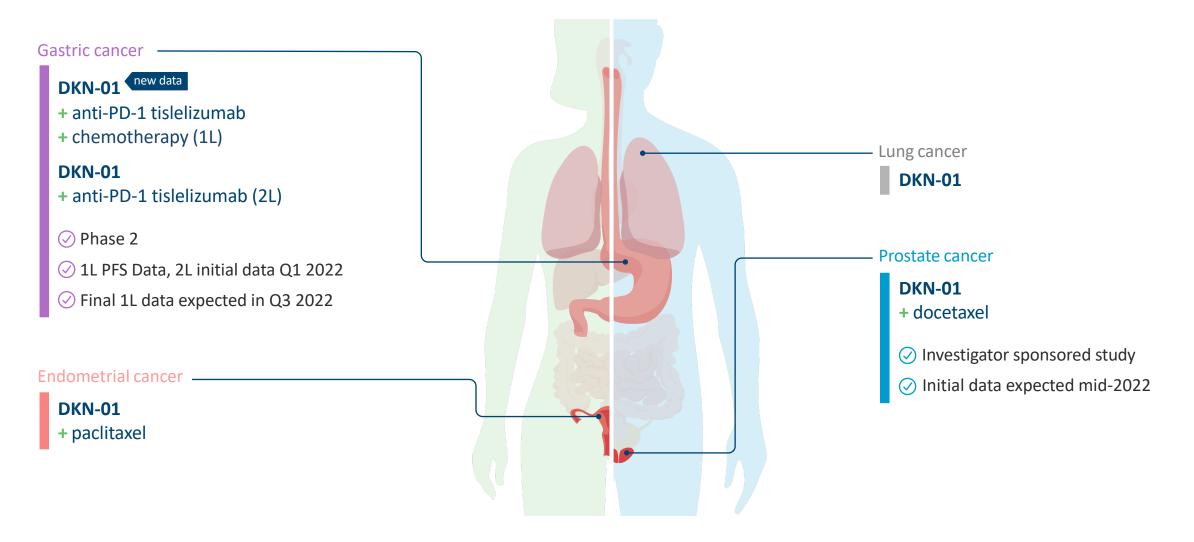


### **DKN-01 + anti-PD-1 combination**



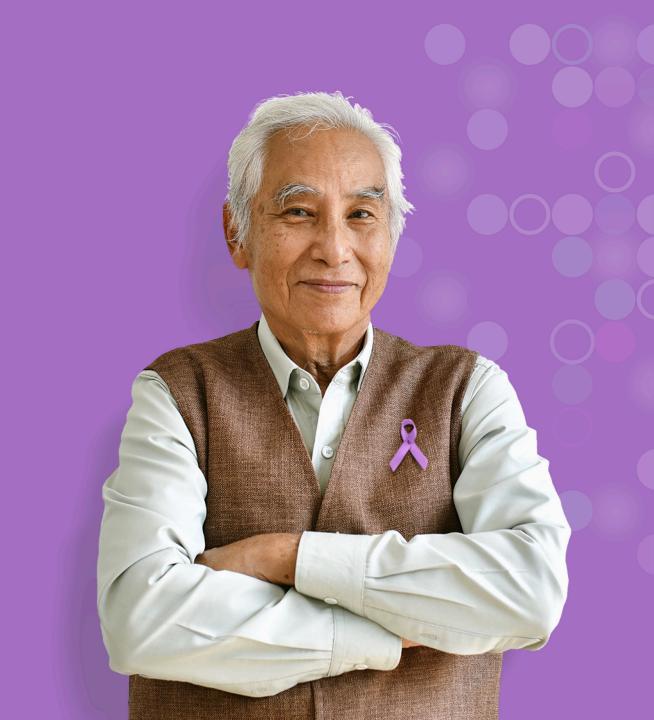


### **Pipeline**



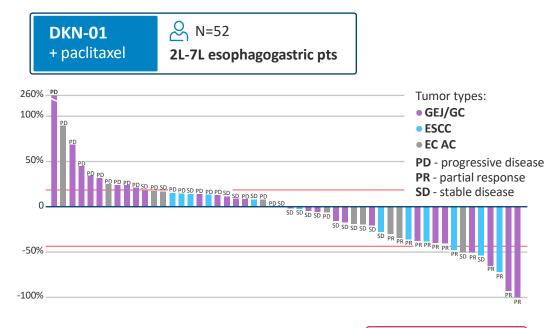


# **DKN-01**Gastric cancer development



### Clinical activity of DKN-01 plus paclitaxel or anti-PD-1 antibody

GEJ/GC Historical data

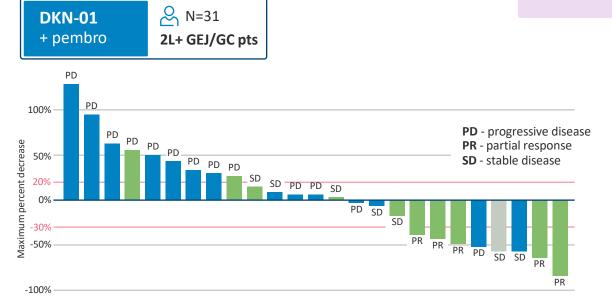


	Patients treated	Prior therapies	Overall response rate (ORR)	Disease control rate (DCR)	
<b>DKN-01</b> + paclitaxel	<b>&amp;</b> N=52	1-7	25%	60%	

### Strong broad activity in esophagogastric cancer in heavily pretreated patients

	Patients treated	PFS (months)	OS (months)	Overall response rate (ORR)	Disease control rate (DCR)
DKN-01 + paclitaxel	& N=15	4.5	12.7	46.7%	73.3%

ORR in 2L patients is ~47%



location	Total (n)	PFS (mo)	OS (mo)	RE (n)	PR (n)	SD (n)	PD (n)	NE (n)	Overall response rate (ORR)	Disease control rate (DCR)
• DKK1- high	<u>&amp;</u> n=11	5.1	7.3	10	5	3	2	1	5 (50%)	8 (80%)
• DKK1- low	<u>\$</u> n=20	1.4	4	15	0	3	12	5	0 (0%)	3 (20%)

<sup>\*</sup>DKK1-high ≥ upper tertile (35)

Achieved improved ORR, PFS, and OS in DKK1-high patients Identified H-score threshold for DKK1 high/low expression





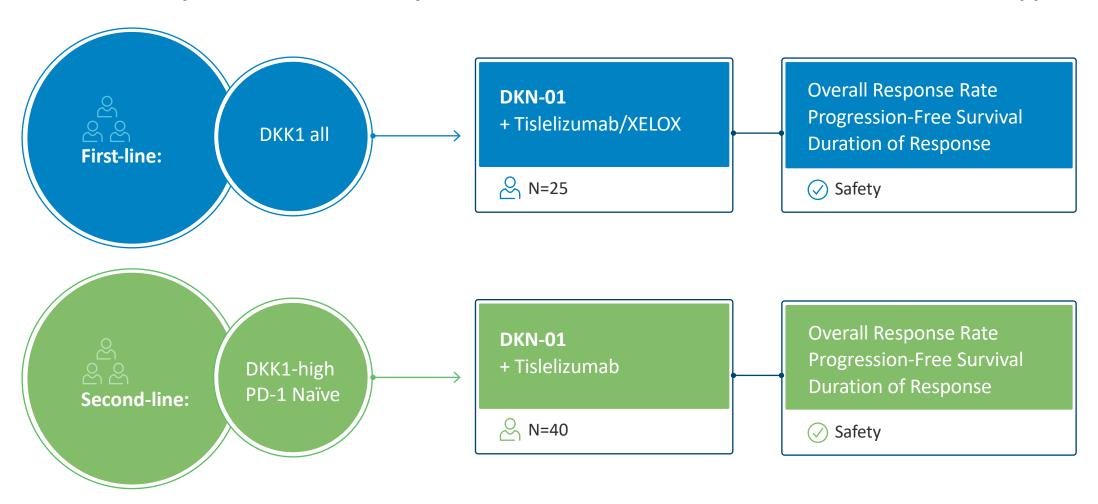
### DisTinGuish study design: advanced GEJ/Gastric cancer

GEJ/GC

DKN-01

+ Tislelizumab + chemotherapy

Assess the safety and anti-tumor activity of DKN-01 in combination with tislelizumab +/- chemotherapy







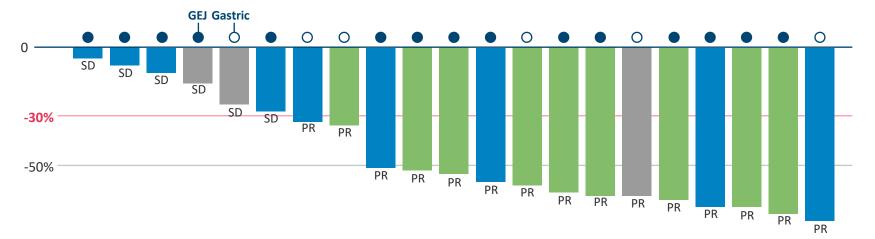
### Best overall response by DKK1 expression

#### 1L GEJ/GC

#### **DKN-01**

- + Tislelizumab
- chemotherapy

### **Best % change in sum of diameters**



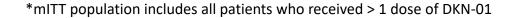
-100% —

	mITT population* 온N=22	DKK1-high	DKK1-low N=9	DKK1-unknown
PR - partial response	15 (68.2%)	9 (90.0%)	5 (55.6%)	1 (33.3%)
<b>SD</b> - stable disease	6 (27.3%)	0	4 (44.4%)	2 (66.7%)
PD - progressive disease	0	0	0	0
Non-evaluable	1 (4.5%)	1 (10.0%)	0	0

All 9 of the evaluable DKK1-high patients had a partial response

68.2%
ORR
in the mITT
population



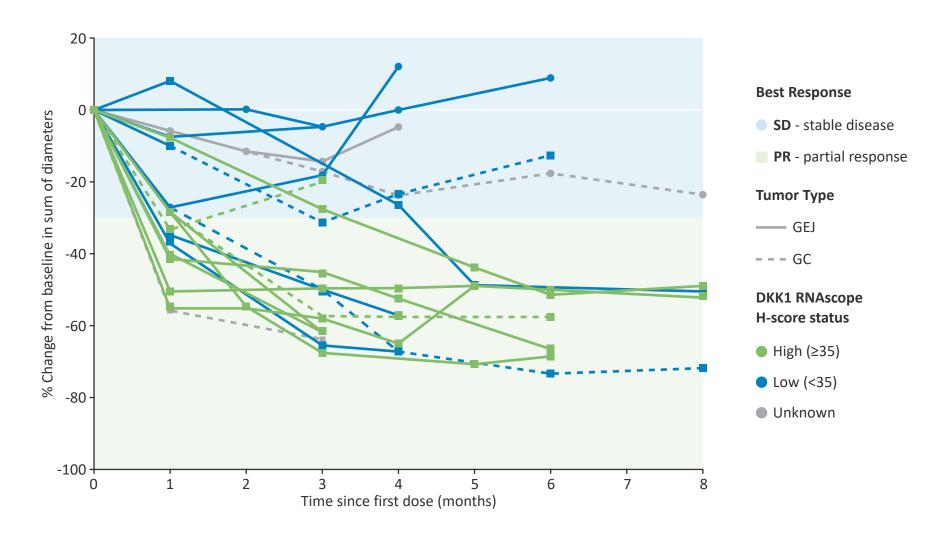




### **Durable response by DKK1 expression**

### **Best % change in sum of diameters**





90%
ORR in
DKK1-high
patients



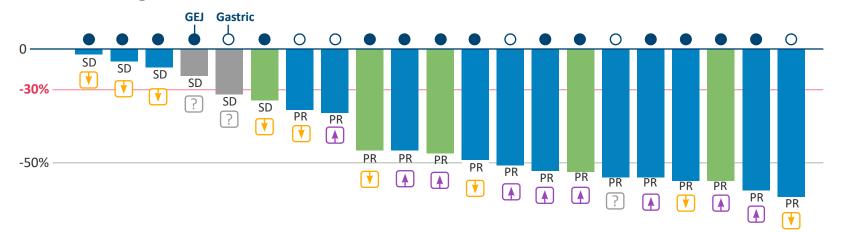
### Best overall response by PD-L1 expression

1L GEJ/GC

#### **DKN-01**

- + Tislelizumab
- + chemotherapy

### **Best % change in sum of diameters**



-100%

	PD-L1 <b>(</b>	CPS ≥5				
	<b>A</b>	(₹)	<b>A</b>	<b>*</b>	?	
	<b>DKK1-</b> high	DKK1-low & N=2	<b>DKK1-</b> high <i>⊵</i> N=6	<b>DKK1-</b> low ♣ N=7	<b>DKK1</b> -unknown ∠ N=1	
PR - partial response	3 (75%)	1 (50%)	6 (100%)	4 (57%)	1 (100%)	
SD - stable disease	0	1 (50%)	0	3 (43%)	0	
PD - progressive disease	0	0	0	0	0	
Non-evaluable	1 (25%)	0	0	0	0	
	≗ N= <b>67%</b>		≥ N=14 <b>79% ORR</b>			

**79%**ORR in PD-L1 low patients

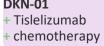


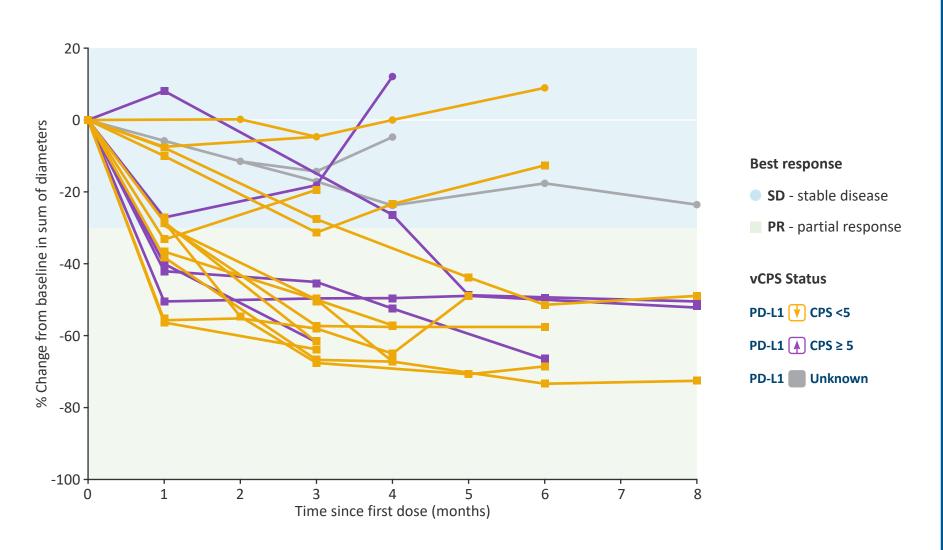


### **Durable responses independent of PD-L1 expression**

#### 1L GEJ/GC DKN-01

**Best % change in sum of diameters** 



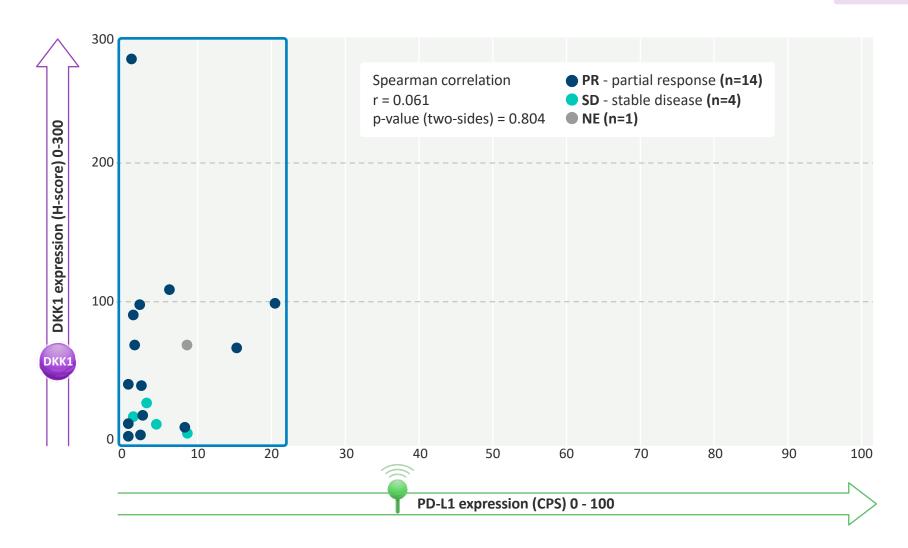


100% ORR in DKK1-high/PD-L1-low patients



### **DKK1** and **PD-L1** expression are not correlated





This population had low overall PD-L1 expression



### Competitive benchmarks for PD-1 + chemotherapy in 1L GEJ/GC patients

1L GEJ/GC

DKN-01+ Tislelizumab

+ chemotherapy

PD-1 antibodies plus chemotherapy	Nivol	umab	Tislelizumab	Pembrolizumab
	Checkmate-649 (AII) N=789	Checkmate-649  PD-L1 ♠ CPS ≥ 5  N=473	(AII)	Keynote-062  PD-L1 ♠ CPS ≥ 1  N=251
OS months	13.8	14.4	NR	12.5
(95% CI)	(12.6, 14.6)	(13.1, 16.2)		(10.8, 13.9)
DOR months	8.5	9.5	NR	6.8
(95% CI)	(7.2, 9.9)	(8.1, 11.9)		(5.5, 8.3)
PFS months	7.7	7.7	6.11	6.9
(95% CI)	(7.1, 8.5)	(7.0, 9.2)	(3.8, NE)	(5.7, 7.3)
<b>ORR (%)</b> (95% CI)	<b>47%</b> (43%, 50%)	<b>50%</b> (46%, 55%)	<b>46.7%</b> (21.3%, 73.4%)	<b>48.6%</b> (42.4%, 54.9%)



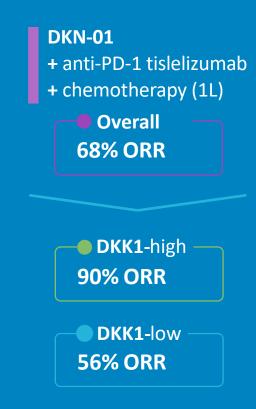


### **DKN-01** highlights in gastric cancer



DKK1 is an important new therapeutic target in esophagogastric cancer

DKK1-high is associated with aggressive biology, poor response to standard 5-FU therapy, and shorter survival







# **DKN-01**Endometrial cancer development



### **Endometrial Cancer**

#### 5-Year overall and relative survival:





Most common gynecological cancer in the western world



~66,500 annual cases in the United States and the incidence is increasing

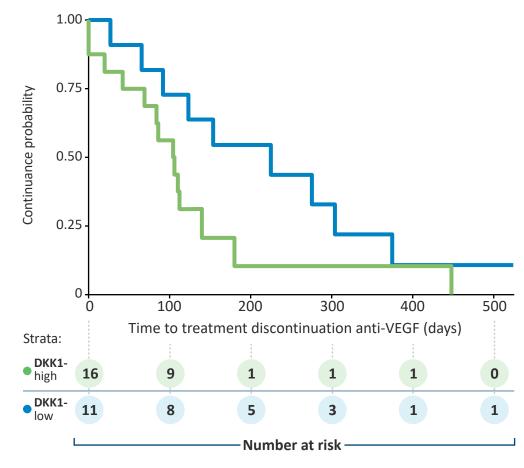


Fourth most common cancer in women in the United States

Clinical risk factors include estrogenonly hormone replacement, obesity, chronic anovulation, tamoxifen therapy, nulliparity, early menarche, and late menopause

High DKK1 is associated with poor response to anti-VEGF and anti-PD-L1 in endometrioid endometrial cancer patients

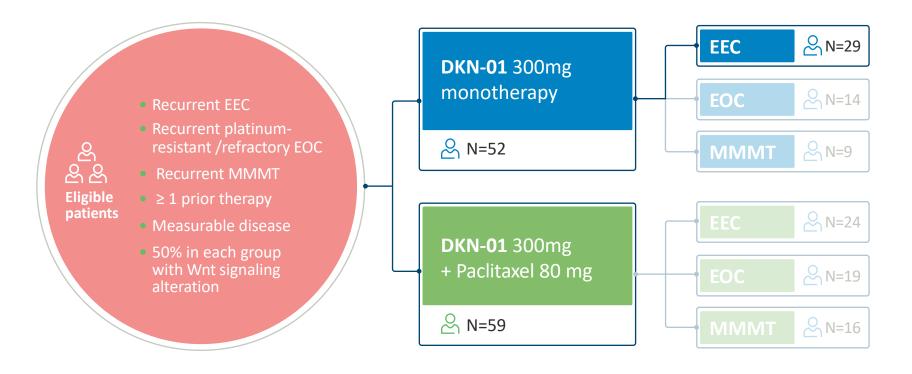
#### **Anti-VEGF treatment:**







# Phase 2 study design evaluating DKN-01 monotherapy and in combination in advanced gynecologic malignancies



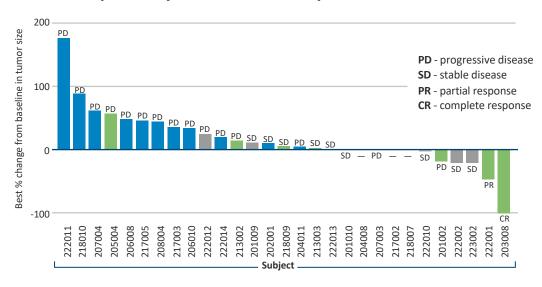
- Primary objective: Overall response rate (ORR)
- Secondary objectives:
  Exploring genetic
  mutations in the Wnt
  signaling pathway and
  tumoral DKK1 expression
  as predictive biomarkers





### DKN-01 monotherapy - overall response by DKK1 tumoral expression

#### Overall response by DKK1 tumoral expression



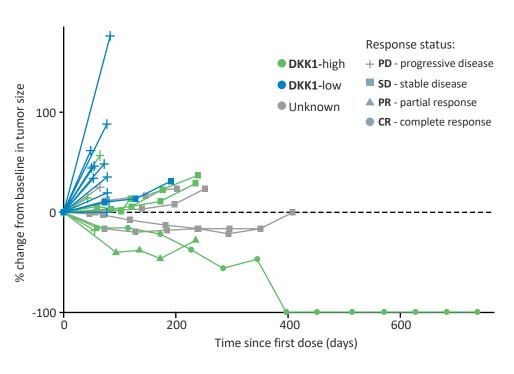
Status	Total	CR	PR	SD	PD	NE	ORR	DCR
<b>DKK1-</b> high (≥18)*	<u>&amp;</u> n=8	1	1	3	3	0	25%	63%
<b>DKK1</b> -low (<18)	<b>८</b> n=15	0	0	1	11	3	0%	7%
Unknown	<u></u> n=6	0	0	5	1	0	0%	83%

<sup>\*</sup>H-score ≥ 18, upper tertile of overall study population

DKK1-high tumors have better ORR (25% vs. 0%) and clinical benefit (63% vs. 7%)

Patients with unknown DKK1 expression include 3 patients with durable SD and Wnt activating mutations

#### **Durable clinical benefit in DKK1-high tumors**



DKK1-high patients have longer progression free survival (4.3 vs. 1.8 months [HR 0.26; 95 CI: 0.09, 0.75])





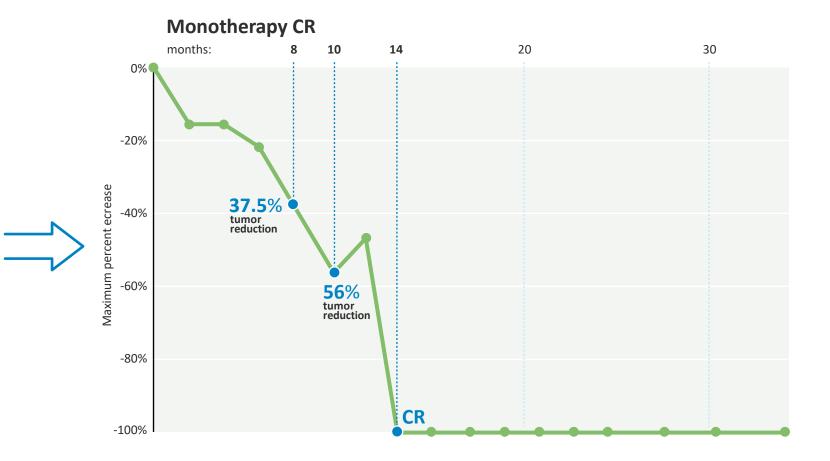
### Complete response in endometrial cancer patient on DKN-01 monotherapy

Patient:60 yo female with recurrent endometrial cancer

- Prior treatment:
   radiation and chemotherapy
   poorly tolerated (neuropathy
   and thrombocytopenia)
- **Baseline disease characteristics:** MSI-H, TMB: 46.65
- Genetics:
  ARID1A, PIK3CA; DKK1-high

Treatment: **DKN-01** monotherapy

Enrolled in July 2018







### **Leap 2022 clinical milestones**

Gastric cancer

**DKN-01** 

+ tislelizumab



**First-line patients** combination with chemotherapy

**Second-line patients** DKK1-high

Prostate cancer

**DKN-01** 

+ docetaxel



