

Kineto Lab Ltd.

Patient-derived tumor xenograft (PDTX) model characterization

Budapest

2021.

Code: KIN-AD1

Tumor type/subtype: Non-small cell lung cancer/adenocarcinoma

Primary/metastatic: primary

Patient age: 83 years

Patient sex: male

Smoking status: unknown

Treatment-naïve: former metastasis surgery, drug-naïve

Genetic background

(highlights from Illumina TruSight Oncology 500 platform genetic testing)

Gene	Status
TP53	wt
EGFR	Arg521Lys
KRAS	wt
LRP1B	Val1913Met
	Gln3140Arg
	Gln48Arg
KEAP1	wt
FAT4	wt
STK11	wt
SMARCA4	wt
FAT1	Arg2567His

Gene	Status
KMT2C	wt
RBM10	wt
PTPRT	wt
SETBP1	Val1101Ile
NF1	wt
CDKN2A	wt
ATM	Asp1853Asn
ZNF521	wt
ARID1A	wt
KMT2D	wt
GRIN2A	wt

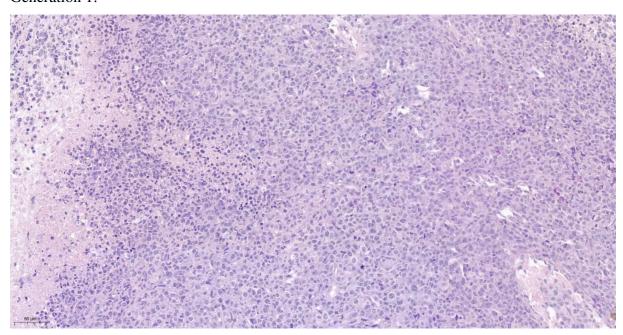
Tumor PDX growth

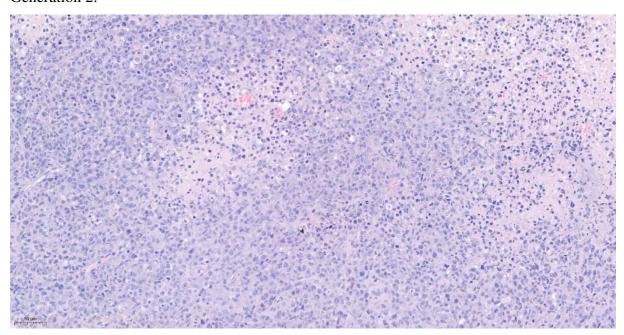
Time to measurable tumor: 35 days

Time to reach 200mm³ tumor size: 40 days

Time to reach 1000 mm³ tumor size: 48 days

Generation 1:





Code: KIN-ID1

Tumor type/subtype: Diffuse glioma

Primary/metastatic: primary

Patient age: 3 years

Patient sex: female

Smoking status: non-smoker

Treatment-naïve: yes

Genetic background

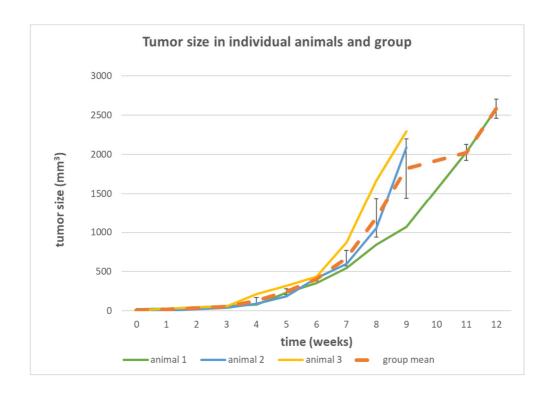
(highlights from Illumina TruSight Oncology 500 platform genetic testing)

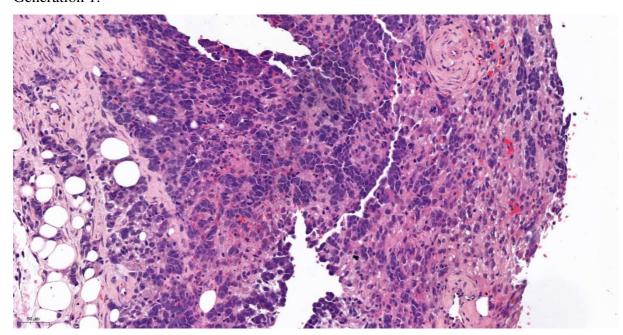
Gene	Status
TERT	wt
TP53	wt
	Arg342Ter - stop
TP53	gained
PTEN	wt
CDKN2A	wt
EGFR	wt
IDH1	wt
H3F3A	wt
NF1	wt
ATRX	wt

Gene	Status
PIK3CA	wt
RB1	wt
CHEK2	wt
PIK3R1	wt
PDGFRA	wt
IRS4	wt
SETD2	Met1080lle
MSH6	Gly39Glu
PTCH1	Arg1442Trp
	Pro1315Leu

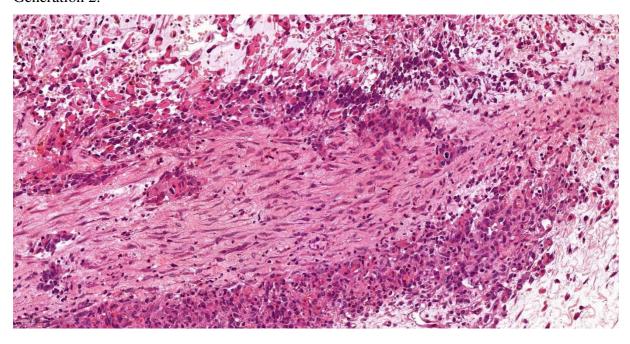
Tumor PDX growth

Time to measurable tumor: 13 days
Time to reach 200mm³ tumor size: 53 days
Time to reach 1000 mm³ tumor size: 75 days





Generation 2:



Code: KIN-ID2

Tumor type/subtype: Glioblastoma

Primary/metastatic: primary

Patient age: 69 years

Patient sex: female

Smoking status: unknown

Treatment-naïve: unknown

Genetic background

(highlights from Illumina TruSight Oncology 500 platform genetic testing)

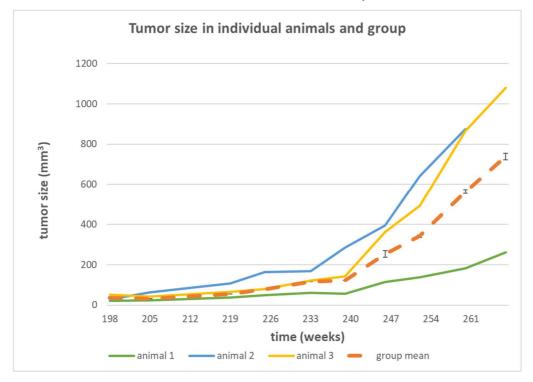
Gene	Status	
TERT	wt	
TP53	wt	
PTEN	wt	
CDKN2A	wt	
EGFR	Arg252Cys	
IDH1	wt	
H3F3A	wt	
ATRX	wt	
PIK3CA	wt	
RB1	wt	
CHEK2	wt	

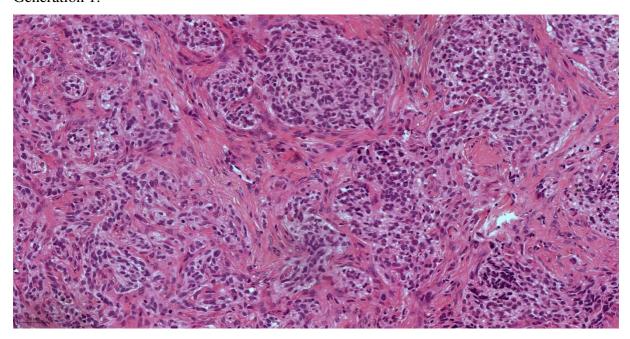
Gene	Status
PIK3R1	wt
PDGFRA	wt
IRS4	wt
LRP1B	Thr1043Ser
	Gln48Arg
CIC	Ala1931Val
NOTCH1	Arg1279His
KMT2D	wt
MSH6	Gly39Glu
PTCH1	Pro1315Leu
AXIN2	Arg538Trp

Tumor PDX growth

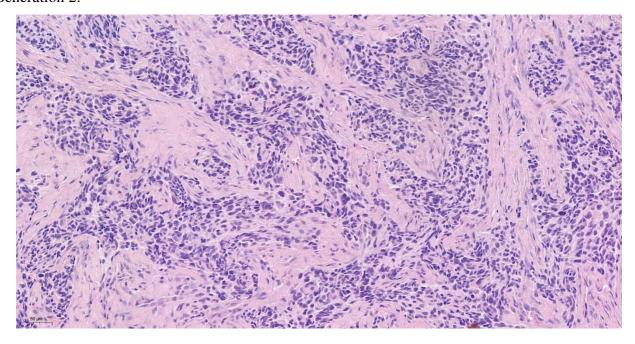
Time to measurable tumor: 200 days
Time to reach 200mm³ tumor size: 246 days

Time to reach 1000 mm³ tumor size: about 280 days





Generation 2:



Code: KIN-ID6

Tumor type/subtype: Non-small cell lung cancer/adenocarcinoma

Primary/metastatic: brain metastasis

Patient age: 72 years
Patient sex: female
Smoking status: unknown

Treatment-naïve: unknown

Genetic background

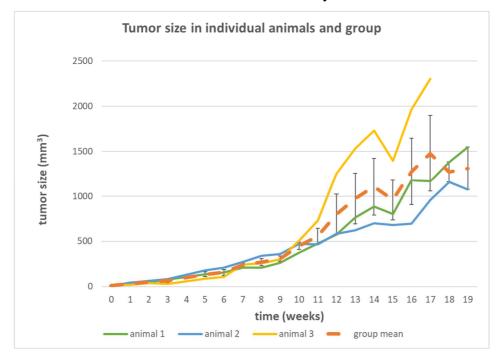
(highlights from Illumina TruSight Oncology 500 platform genetic testing)

Gene	Status
TERT	wt
TP53	His179Leu
PTEN	wt
CDKN2A	Ala68Pro
EGFR	wt
IDH1	wt
H3F3A	wt
NF1	wt
ATRX	wt
PIK3CA	wt
RB1	wt

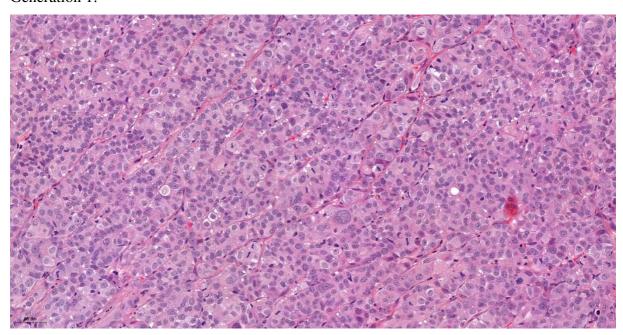
Gene	Status
CHEK2	wt
PIK3R1	wt
PDGFRA	Gly1005Ser
IRS4	wt
LRP1B	Gly2521Arg
MSH6	wt
NOTCH2	wt
IDH2	wt
FUBP1	wt
CTNNB1	wt

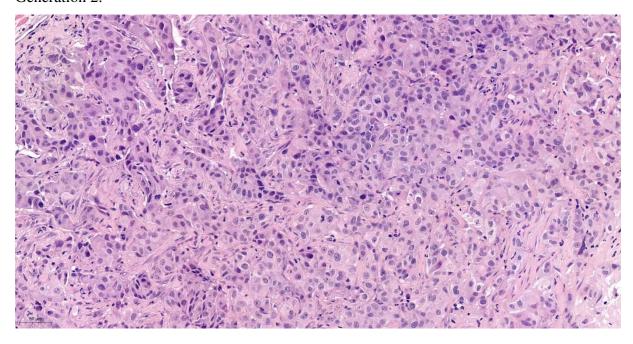
Tumor PDX growth

Time to measurable tumor: 14 days
Time to reach 200mm³ tumor size: 64 days
Time to reach 1000 mm³ tumor size: 113 days



Generation 1:





Code: KIN-MET2

Tumor type/subtype: Colorectal adenocarcinoma

Primary/metastatic: liver metastasis

Patient age: 63 years

Patient sex: female

Smoking status: smoker

Treatment-naïve: yes

Genetic background

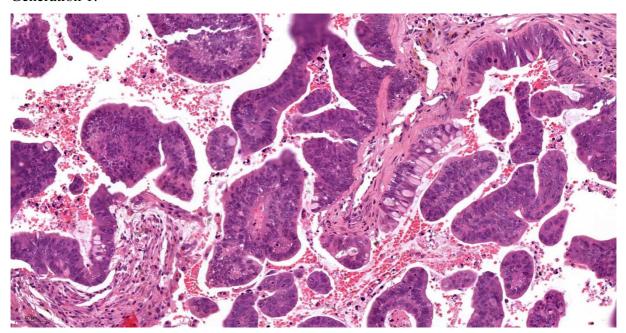
(highlights from Illumina TruSight Oncology 500 platform genetic testing)

Gene	status
TP53	wt
LRP1B	wt
FAT4	wt
ARID1A	wt
PIK3CA	wt
PREX2	wt
KMT2D	wt
KMT2C	wt
ERBB3	Ser1119Cys
TRRAP	wt

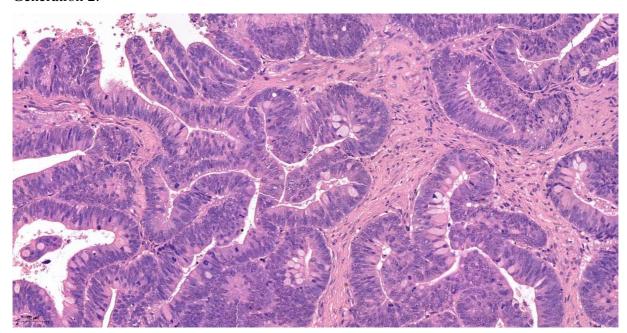
Gene	status
CDH1	wt
PTPRT	wt
SPEN	wt
BCORL1	wt
ERBB4	wt
RNF213	wt
TGFBR2	wt
ZFHX3	wt
RNF43	Leu418Met
CREBBP	wt

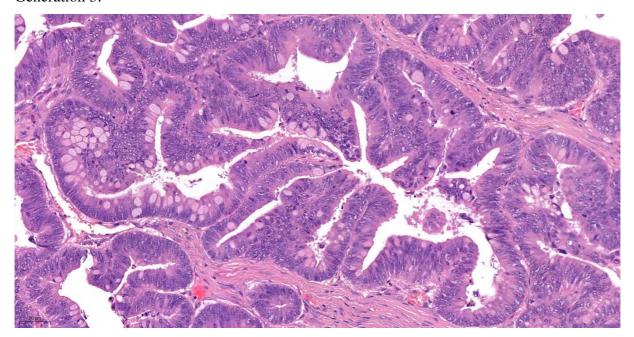
Tumor PDX growth

Time to measurable tumor: not available
Time to reach 200mm³ tumor size: not available
Time to reach 1000 mm³ tumor size: not available

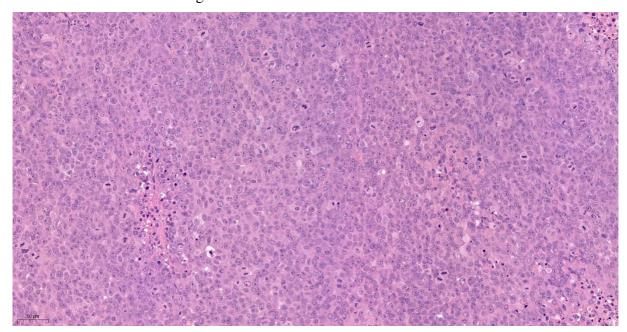


Generation 2:





Derived cell line-based xenograft:



Code: KIN-MET3

Tumor type/subtype: gastric cancer/adenocarcinoma

Primary/metastatic: liver metastasis

Patient age: 74 years
Patient sex: female
Smoking status: unknown

Treatment-naïve: no

Genetic background

(highlights from Illumina TruSight Oncology 500 platform genetic testing)

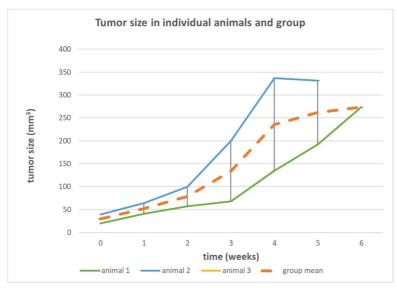
Gene	status
APC	wt
TP53	Arg213Ter - stop gained
KRAS	wt
FAT4	wt
LRP1B	Cys3342Phe
	Gly3232Trp
	Arg2235Ter - stop gained
PIK3CA	wt
TGFBR2	wt
BRAF	wt
ACVR2A	wt
KMT2C	wt

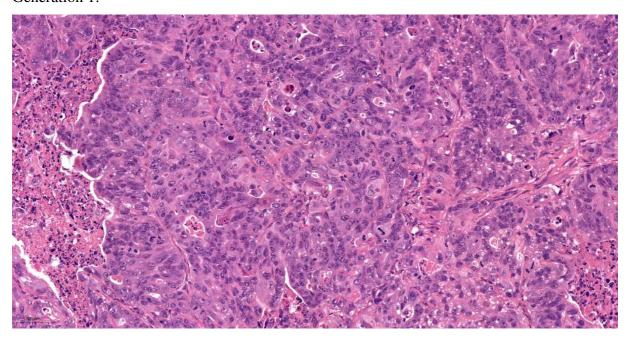
Gene	status
ZFHX3	Ala2405Thr
KMT2D	wt
FBXW7	wt
RNF43	wt
ARID1A	wt
SMAD4	wt
TRRAP	wt
FAT1	Gly2653Ser
	Asn1662Ser
	Val3334Ala
	Ser3554Ala
TCF7L2	wt
PREX2	wt

Tumor PDX growth

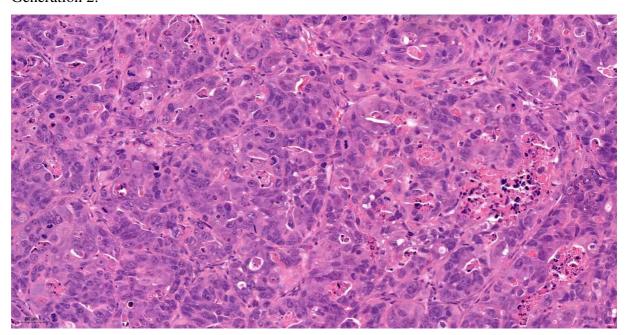
Time to measurable tumor: 55 days
Time to reach 200mm³ tumor size: 85 days

Time to reach 1000 mm³ tumor size: unknown





Generation 2:



Code: **KIN-MET6**

Tumor type/subtype: Hepatocellular carcinoma

Primary/metastatic: primary
Patient age: 73 years
Patient sex: male

Smoking status: non-smoker

Treatment-naïve: no

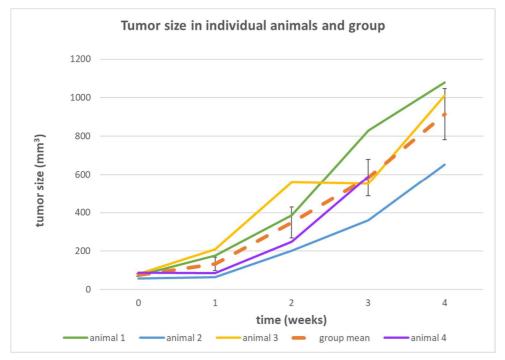
Genetic background

(highlights from Illumina TruSight Oncology 500 platform genetic testing)

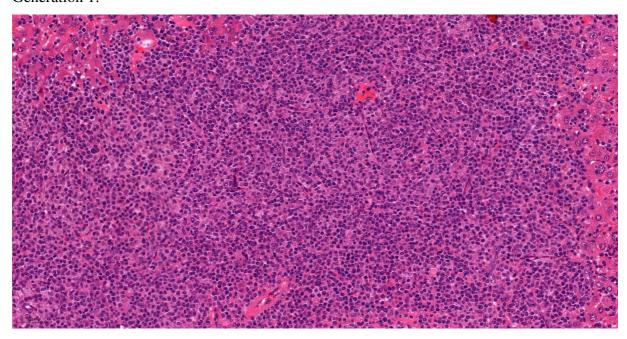
Tumor PDX growth

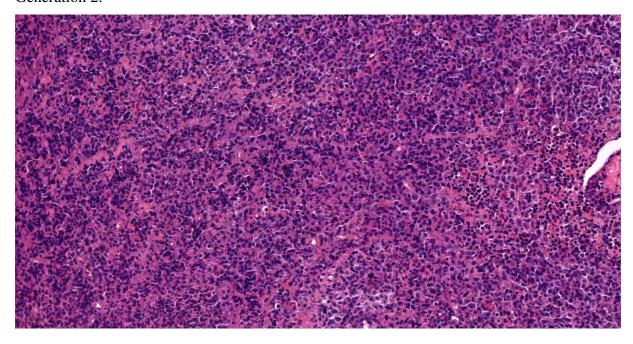
Time to measurable tumor: 14 days
Time to reach 200mm³ tumor size: 28 days

Time to reach 1000 mm³ tumor size: about 42 days



Generation 1:





Code: KIN-MET12

Tumor type/subtype: Colorectal adenocarcinoma

Primary/metastatic: liver metastasis

Patient age: 69 years

Patient sex: male

Smoking status: former smoker

Treatment-naïve: no

Genetic background

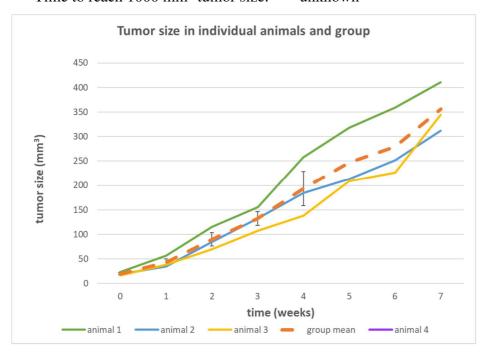
(highlights from Illumina TruSight Oncology 500 platform genetic testing)

Tumor PDX growth

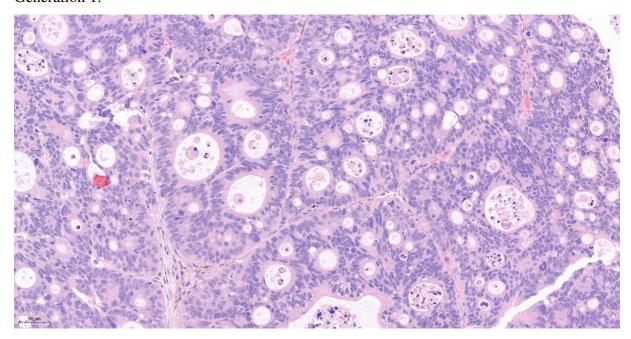
Time to measurable tumor: 22 days

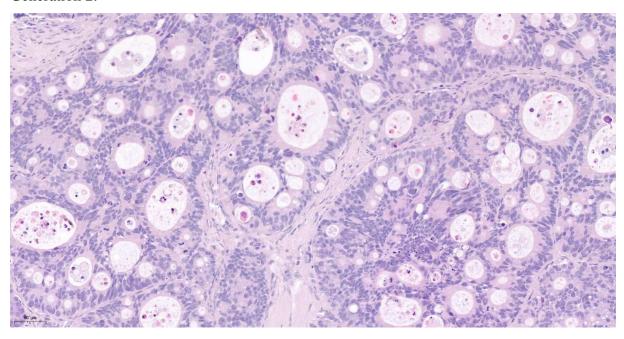
Time to reach 200mm³ tumor size: 57 days

Time to reach 1000 mm³ tumor size: unknown

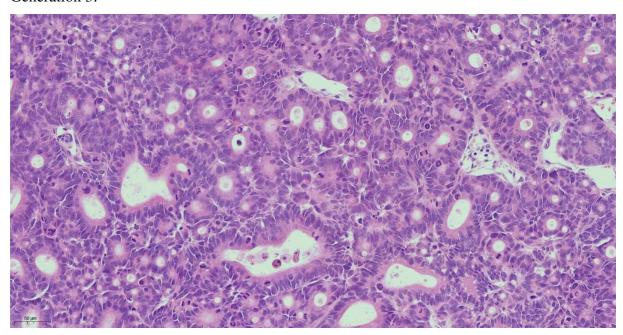


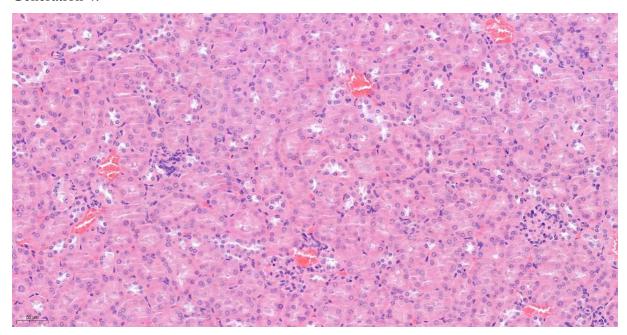
Generation 1:





Generation 3:





Code: KIN-SUD82

Tumor type/subtype: Non-small cell lung cancer/adenocarcinoma

Primary/metastatic:

Patient age: 73 years

Patient sex: Male

Smoking status:

Treatment-naïve:

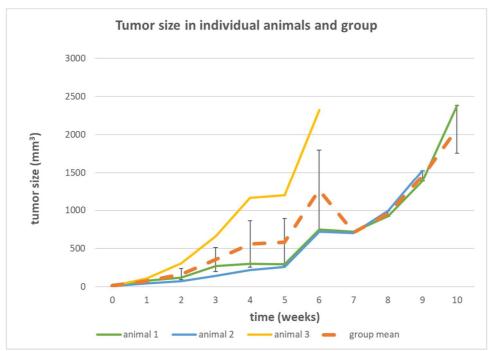
Genetic background

(highlights from Illumina TruSight Oncology 500 platform genetic testing)

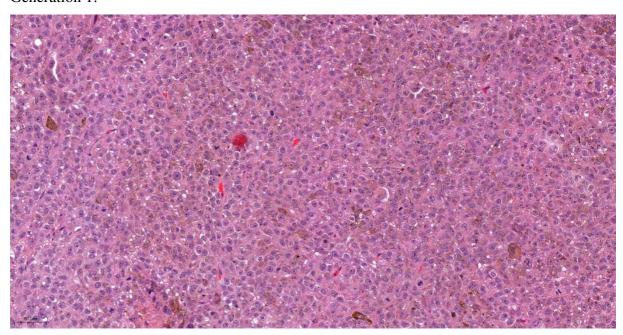
Tumor PDX growth

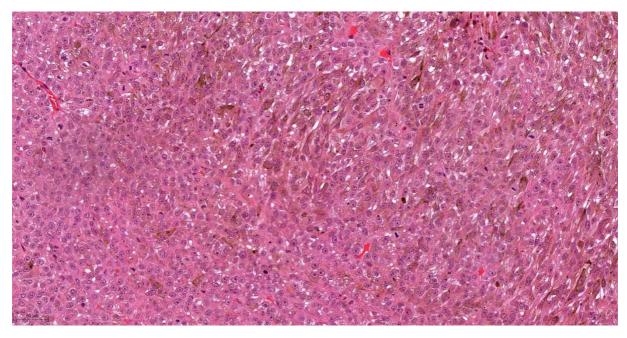
Time to measurable tumor: 18 days
Time to reach 200mm³ tumor size: 40 days

Time to reach 1000 mm³ tumor size: about 60 days



Generation 1:





Code: KIN-SUD94

Tumor type/subtype: Non-small cell lung cancer/adenocarcinoma

Primary/metastatic:

Patient age: 73 years

Patient sex: Male

Smoking status:

Treatment-naïve:

Genetic background

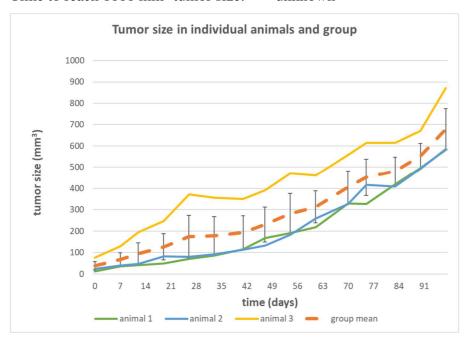
(highlights from Illumina TruSight Oncology 500 platform genetic testing)

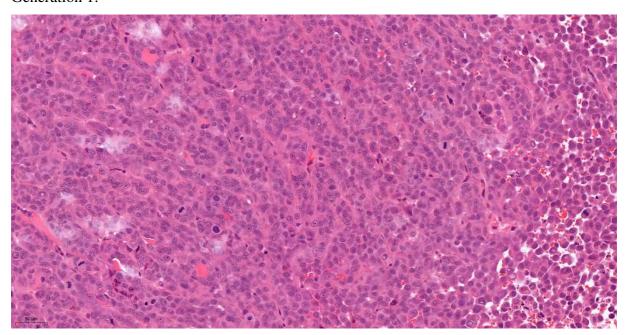
Tumor PDX growth

Time to measurable tumor: 42 days

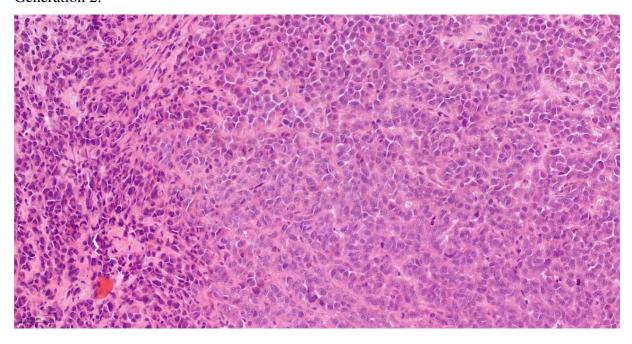
Time to reach 200mm³ tumor size: 85 days

Time to reach 1000 mm³ tumor size: unknown





Generation 2:



Code: KIN-PR1

Tumor type/subtype: Prostate adenocarcinoma

Primary/metastatic: primary
Patient age: 60 years
Patient sex: male

ration sex.

Treatment-naïve: yes

Genetic background

Smoking status:

(highlights from Illumina TruSight Oncology 500 platform genetic testing)

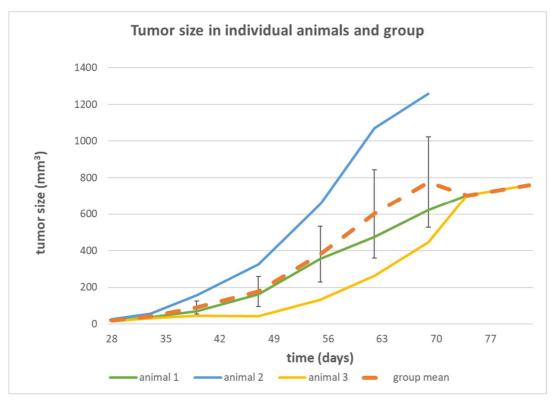
unknown

Tumor PDX growth

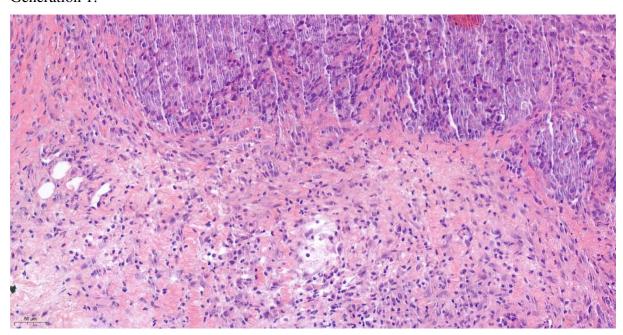
Time to measurable tumor: 50 days

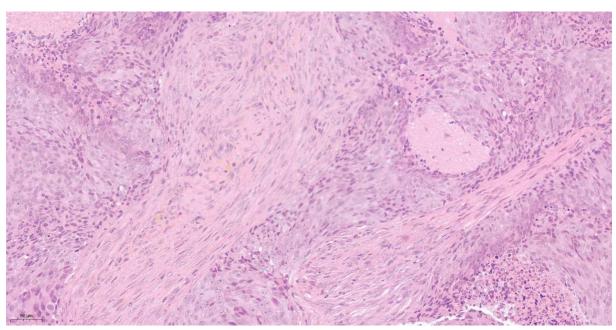
Time to reach 200mm³ tumor size: 77 days

Time to reach 1000 mm³ tumor size: unknown



Generation 1:





Code: KIN-TU6

Tumor type/subtype: Non-small cell lung cancer/adenocarcinoma

Primary/metastatic: primary
Patient age: 73 years

Patient sex: male

Smoking status: unknown

Treatment-naïve: yes

Genetic background

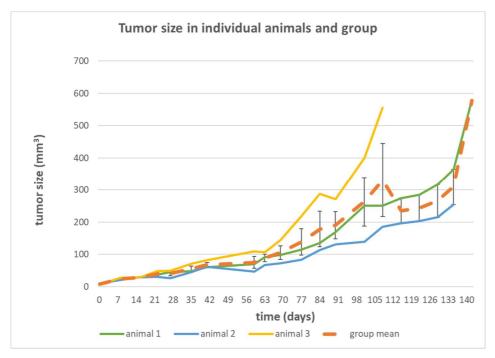
(highlights from Illumina TruSight Oncology 500 platform genetic testing)

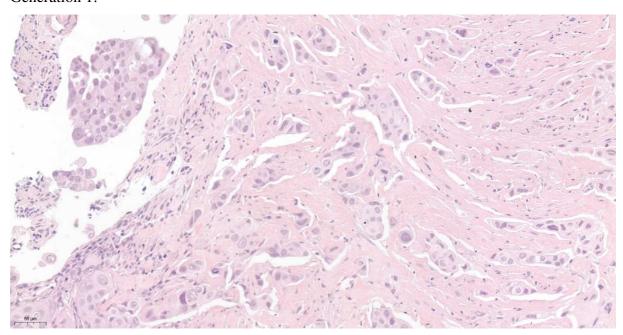
Tumor PDX growth

Time to measurable tumor: 26 days

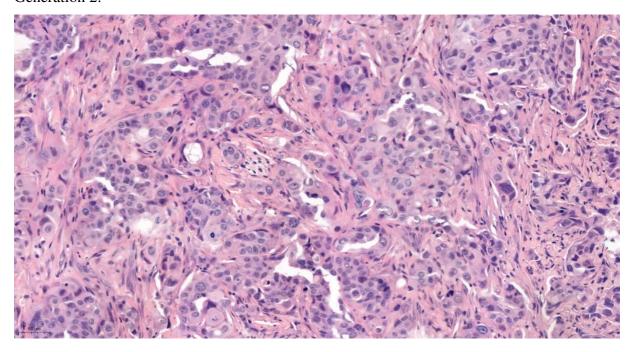
Time to reach 200mm³ tumor size: 127 days

Time to reach 1000 mm³ tumor size: unknown





Generation 2:



Code: KIN-VES2

Tumor type/subtype: renal cell carcinoma

Primary/metastatic: primary

Patient age: 59 years

Patient sex: male

Smoking status: smoker

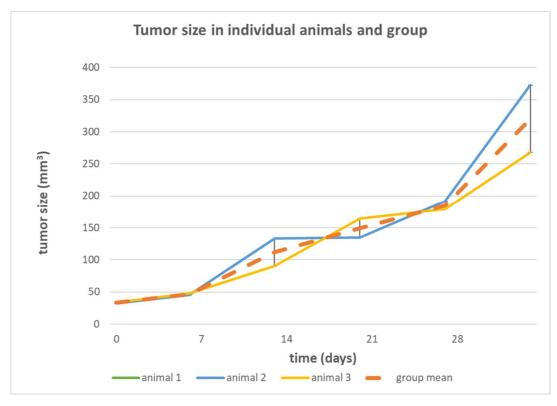
Treatment-naïve: yes

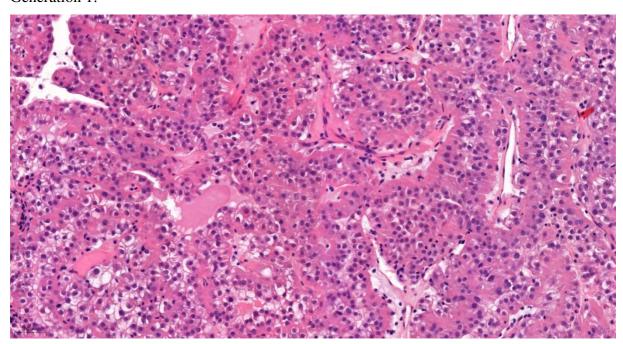
Genetic background

(highlights from Illumina TruSight Oncology 500 platform genetic testing)

Tumor PDX growth

Time to measurable tumor: 18 days
Time to reach 200mm³ tumor size: 52 days
Time to reach 1000 mm³ tumor size: unknown





Generation 2:

