

BerGenBio ASA (OSE: BGBIO)

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Richard Godfrey, CEO



BerGenBio

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BGBIO – Investment Highlights



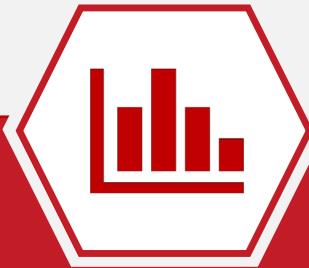
World leaders in understanding AXL biology

AXL is a novel oncology target to overcome immune evasion, therapy resistance & spread

AXL upregulates PDL1 on dendritic cells and blocks T-cell immunity

AXL inhibitors – potential cornerstone of cancer therapy

Pipeline opportunities in multiple cancers and fibrosis



3 selective AXL inhibitors in clinical development

Bemcentinib (Ph2), AXL-antibody BGB149 (Ph1), AXL ADCT601* (Ph1)

Monotherapy and combinations with immune-, targeted and chemotherapies

Biomarker correlation across programme, parallel CDx development

Phase II Proof of Concept
43% ORR in R/R AML/MDS (monotherapy)
40% ORR in 2L NSCLC (KEYTRUDA combo)



Resourced to deliver significant milestones

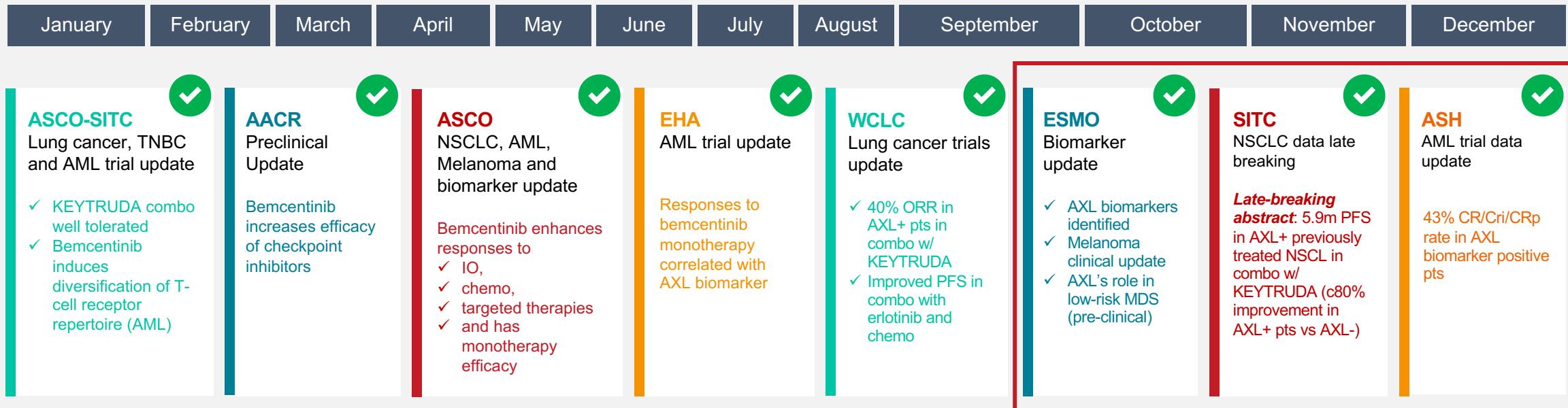
Clinical trial collaborations with Merck and leading academic centres

*AXL antibody out licensed to ADC Therapeutics SA

38 staff at two locations:
HQ & R&D in Bergen, Norway;
Clinical Development in Oxford, UK

Cash NOK 360m/USD 41m

Increasing profile and recognition of bemcentinib at international clinical congresses in 2018



Key data presented in Q4 supports future strategy for late-stage clinical development of bemcentinib in AML/MDS and NSCLC

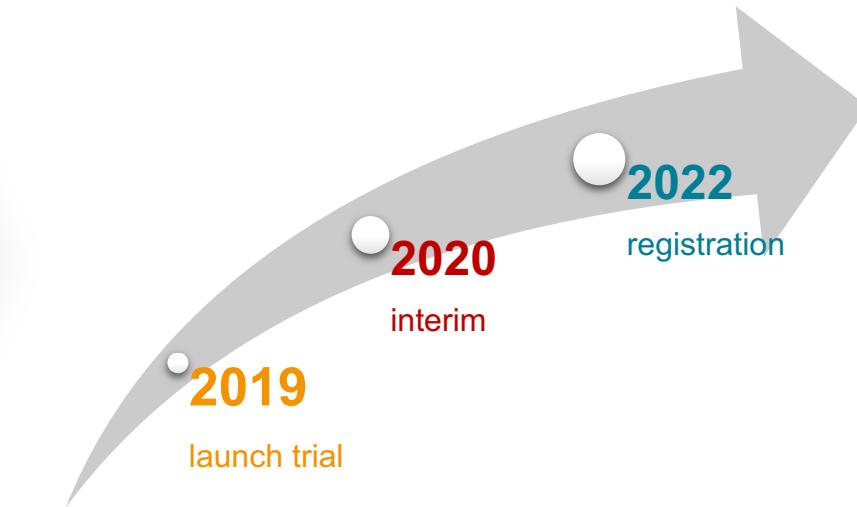
Two significant late stage development opportunities



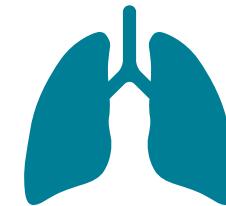
2L AML
monotherapy

Defined patient population, potential
first & accelerated path to registration

Bemcentinib
First-in-class oral,
selective AXL
inhibitor



Effective and well tolerated monotherapy
treatment option for frail patient population



NSCLC
Combo with **Checkpoint inhibitor**

Potential to significantly increase
addressable patient population

CPI effective

CPI not effective

PDL1 high

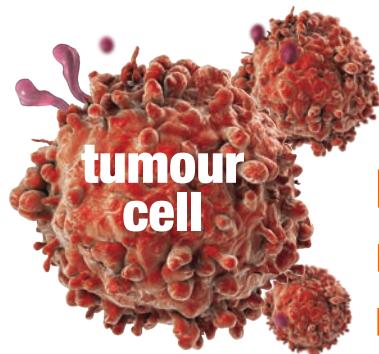
PDL1 neg/low

Effective and well tolerated combination
for 1L or 2L NSCLC patients

AXL drives aggressive cancer



AXL receptor tyrosine kinase drives aggressive disease including therapy resistant, immune-evasive tumours



Drives tumour cell plasticity:
non-genetic resistance
mechanism

AXL drives features of aggressive cancer:

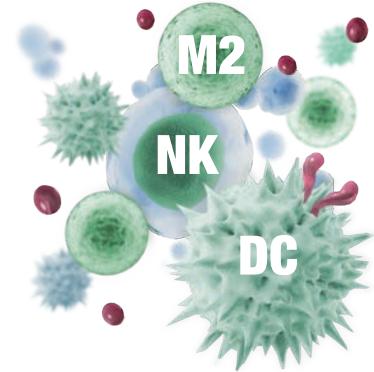
- Acquired therapy resistance
- Immune escape
- Metastasis

very low expression under healthy
physiological conditions (ko mouse
phenotypically normal)

overexpressed in response to hypoxia,
immune reaction, cellular stress /
therapy

overexpression correlates with worse
prognosis in most cancers

Key suppressor of innate
immune response



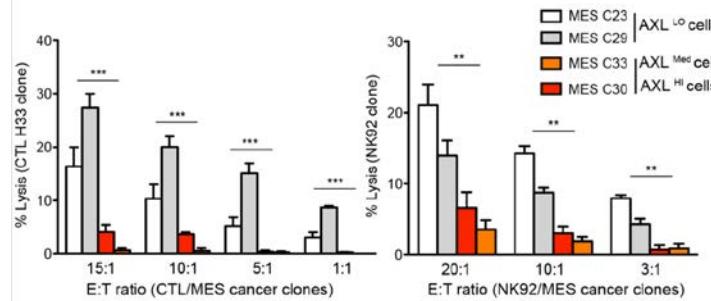
AXL is an innate immune checkpoint:

- M1 to M2 macrophage polarisation
- Decreased antigen presentation by DCs
- Immunosuppressive cytokine profile

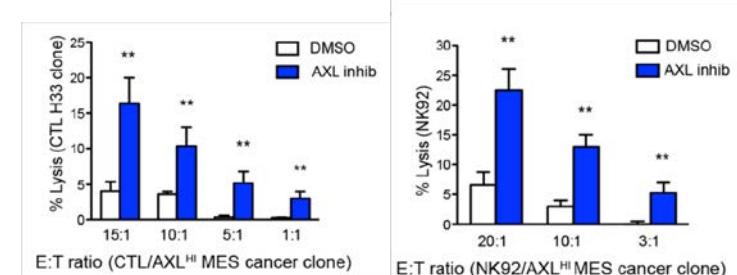
Preclinical data at AACR reinforces bemcentinib's potential to reverse tumour immunosuppression and therapy resistance

Chouaib et al

NSCLC cells high in AXL are less susceptible to destruction by T- and NK cells



Bemcentinib treatment of the tumour cells with high AXL expression reverses this effect

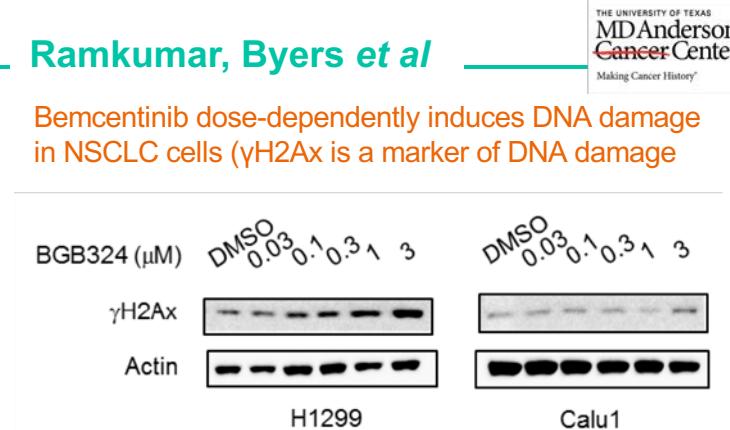


Pre-clinical data supporting the rationale of combining bemcentinib with IO / bemcentinib's IO MoA

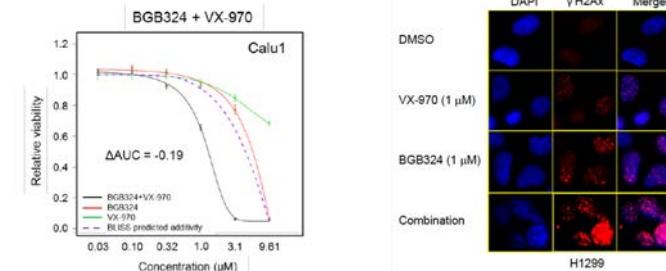
**GUSTAVE
ROUSSY**
CANCER CAMPUS
GRAND PARIS

Ramkumar, Byers et al

Bemcentinib dose-dependently induces DNA damage in NSCLC cells (γ H2Ax is a marker of DNA damage)



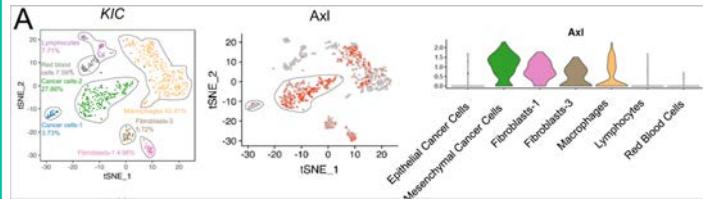
Bemcentinib has synergistic effect when given in combination with DNA damage targeting agents (VX-970)



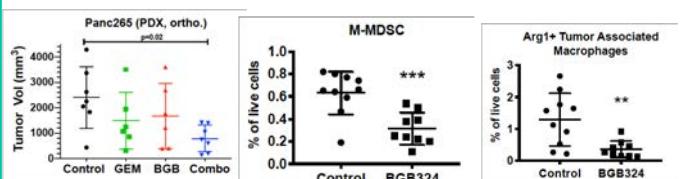
Supports the rationale of combining bemcentinib with chemo and DNA damaging agents

Du, Brekken et al

AXL highly expressed in pancreatic tumour models, particularly in cancer cells, fibroblasts & macrophages



Bemcentinib has synergistic effect when given in combination with chemo, reverses immunosuppression



Supports the rationale of combining bemcentinib with chemotherapy & bemcentinib's IO MoA

UT Southwestern
Medical Center

Two AXL-targeting drug candidates in clinical development

Block AXL signalling, reverse aggressive tumour traits & counteract immune escape



Bemcentinib – Phase 2, late stage in H2 '19

- Oral small molecule TKI, highly selective for AXL
- Clinical PoC in NSCLC & AML, broad ILS support
- Excellent safety and biomarker correlation reported

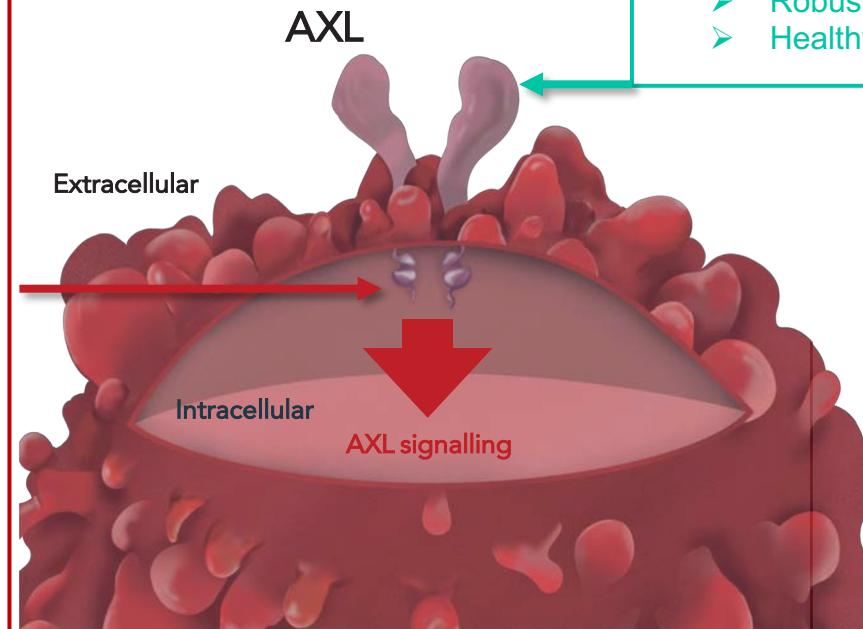
NSCLC:
40% ORR | **6m PFS**

in AXL+ve, predominantly PDL1 -ve/low
2L NSCLC in combination w/
KEYTRUDA

AML:
43% CR/Cri/CRp
in AXL+ve
relapsed/refractory
AML/MDS as a monotherapy

BGB149 – Phase 1

- AXL function blocking antibody
- Highly selective to human AXL
- Robust manufacturing process
- Healthy Volunteer Ph1 ongoing



Bemcentinib: once-a-day pill

Highly selective, orally bioavailable small molecule, administered once a day, in phase II clinical trials

Blocks AXL signalling, reverses aggressive tumour traits & counteracts immune escape

Clinical PoC in AML and NSCLC as a monotherapy and in combination

Correlation of clinical efficacy with AXL biomarkers observed

Excellent clinical safety profile: >250 subjects dosed

Randomised, late stage clinical trials planned to start in H2 2019

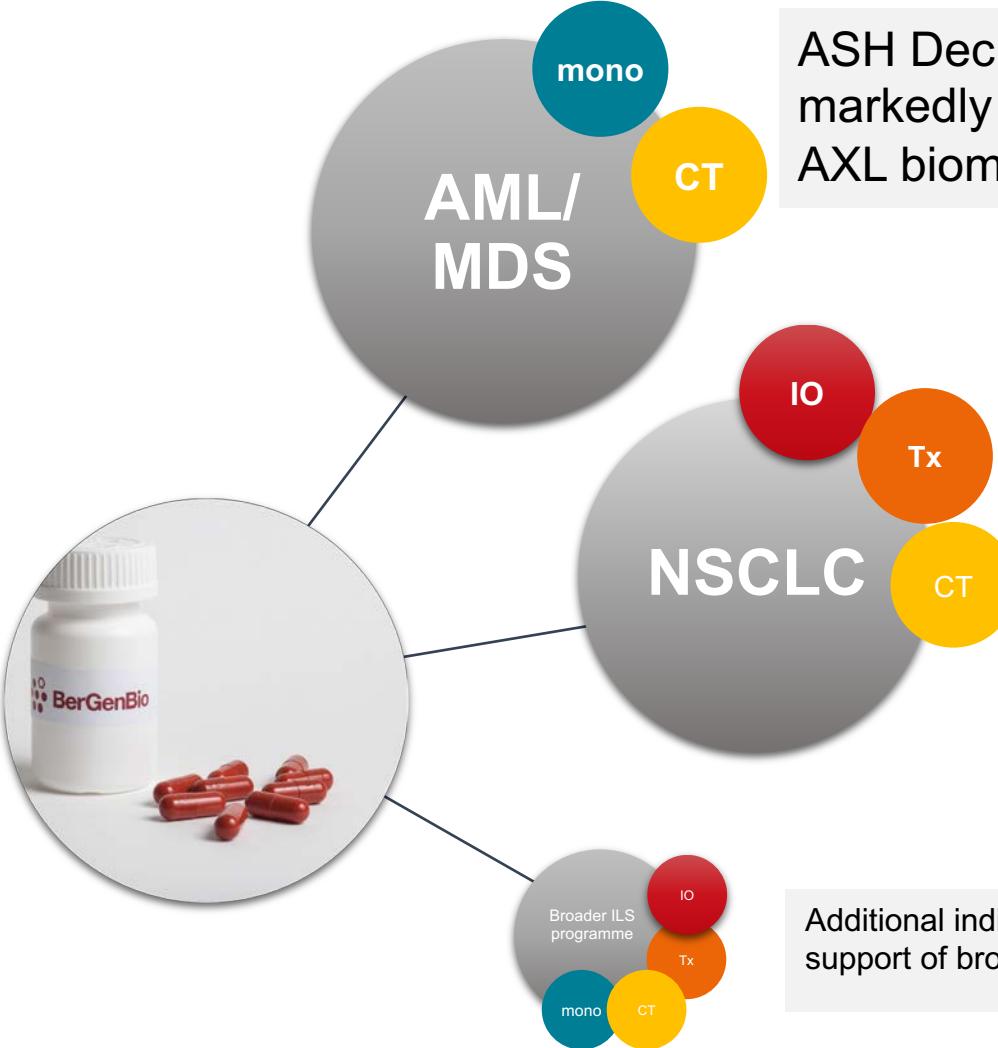


Portfolio of selective AXL inhibitors

Late stage programme in NSCLC and AML planned for H2 2019

		Discovery	Clinical PoC	Late stage development	Registration
Selective AXL kinase inhibitors					
Bemcentinib: selective oral small molecule AXL inhibitor					
NSCLC	Randomised trial (TBC)		<i>Planned for 2H 2019</i>		
	1L & 2L combos with anti-PD1, targeted- or chemotherapy		+ pembrolizumab 2L, IO naive: stage 1 complete ¹ + erlotinib 1L & 2L: complete + docetaxel 2L+: ongoing		
AML/MDS	2L AML monotherapy		<i>Planned for 2H 2019</i>		
	2L single agent + 1L & 2L combos		monotherapy, relapsed/refractory: complete + LDAC 1L & 2L: completed enrolment + decitabine 1L & 2L: ongoing		
ILS support²	additional advanced tumour indications		<i>Numerous 1L & 2L</i>		
BGB149: anti-AXL mAb					
Therapeutic focus not yet disclosed	First in patient phase 1 trial		<i>Planned for 2H 2019</i>		
	Healthy volunteers – phase 1a dose escalation		<i>SAD</i>		
BGB601: AXL ADC outlicensed					
Metastatic cancers	First in man phase 1 solid tumour trial		Monotherapy 2L+ 	Out-licensed to 	

Clinical development focus: Leukaemia & Lung Cancer



ASH Dec 2018, **bemcentinib monotherapy in R/R AML/MDS:**
markedly higher response rate in patients identified by the
AXL biomarker: ORR of 43%

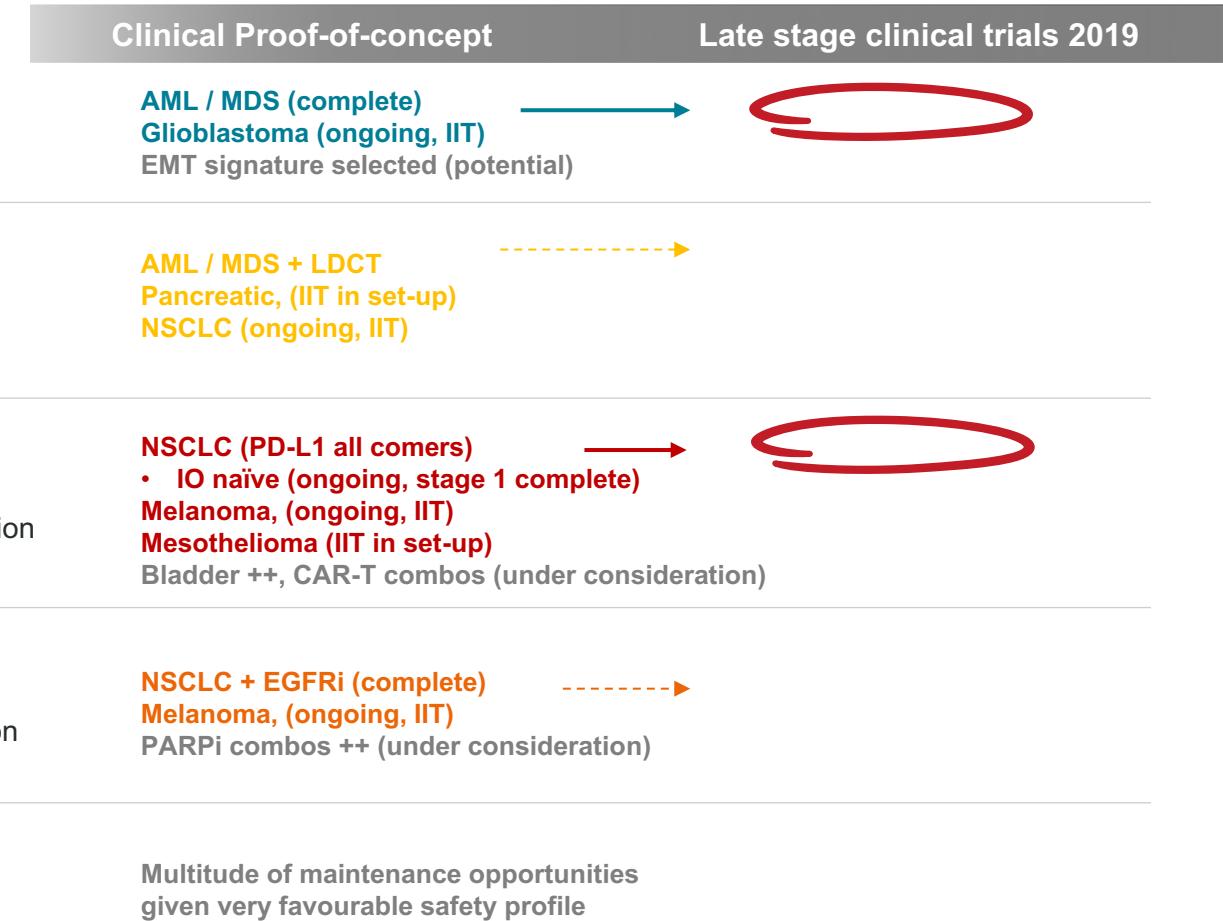


SITC Nov 2018, **combination with KEYTRUDA in 2L NSCLC:**
Superior response rate and PFS in AXL positive patients –
ORR of 40% and ca. 6 months PFS



Additional indications with strong rationale and KOL endorsement are being pursued through active support of broad ILS programme

Clinical Development opportunities for bemcentinib



Companion Diagnostics Programme

- ✓ Selects AXL positive patients
- ✓ Enriched clinical trials
- ✓ Improved chances of regulatory success
- ✓ Precision medicine approach to reimbursement

Biomarkers and Assays



AXL IHC

- ✓ Improved ORR and PFS in AXL +ve NSCLC pts treated with bemcentinib + KEYTRUDA*



AXL liquid biopsy

- ✓ Improved response in relapsed/refractory AML/MDS with lower plasma amounts of inactive AXL (soluble AXL)

Contemporaneous regulatory approval strategy

Clinical PoC

Late stage development

Registration

Research Use Only

Clinical trial Assay

Investigational Use → launch

Ref. BGBC003 / NCT02488408

Bemcentinib in myeloid malignancies: monotherapy & combos

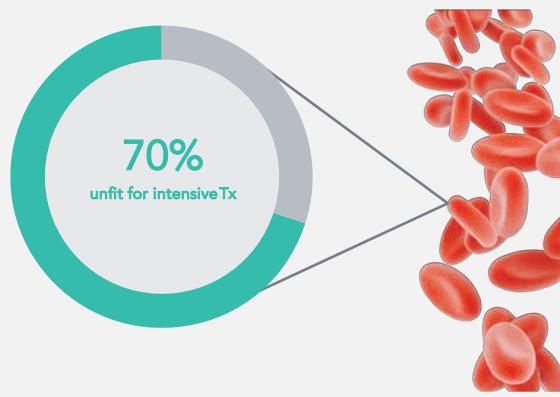
PoC clinical data from monotherapy, combination data in H1 2019

- ✓ **43% ORR in AXL +ve R/R AML and MDS patients**
- ✓ **chemo combos in 1L ongoing**



Bemcentinib: Favourable safety profile offers treatment opportunity for a large group of AML & MDS

AML evolving standard of care (SoC)



AML & MDS – difficult to treat malignancies, predominantly elderly frail patient population
~ 20,000 new cases diagnosed and >10,000 deaths (2018, U.S.)

Younger fit patients

Induction chemotherapy
+/- FLT3 inhibitor

>75 yo / unfit for intensive therapy

low dose chemo / hypomethylating agents / best supportive care

New therapies needed in 1L & 2L for less fit patients w/o actionable mutations

Treatment options beyond chemotherapy still limited

Urgent need particularly in older and R/R patients

Treatment Opportunity

1L: low intensity therapy +/- venetoclax

bemcentinib combo opportunity

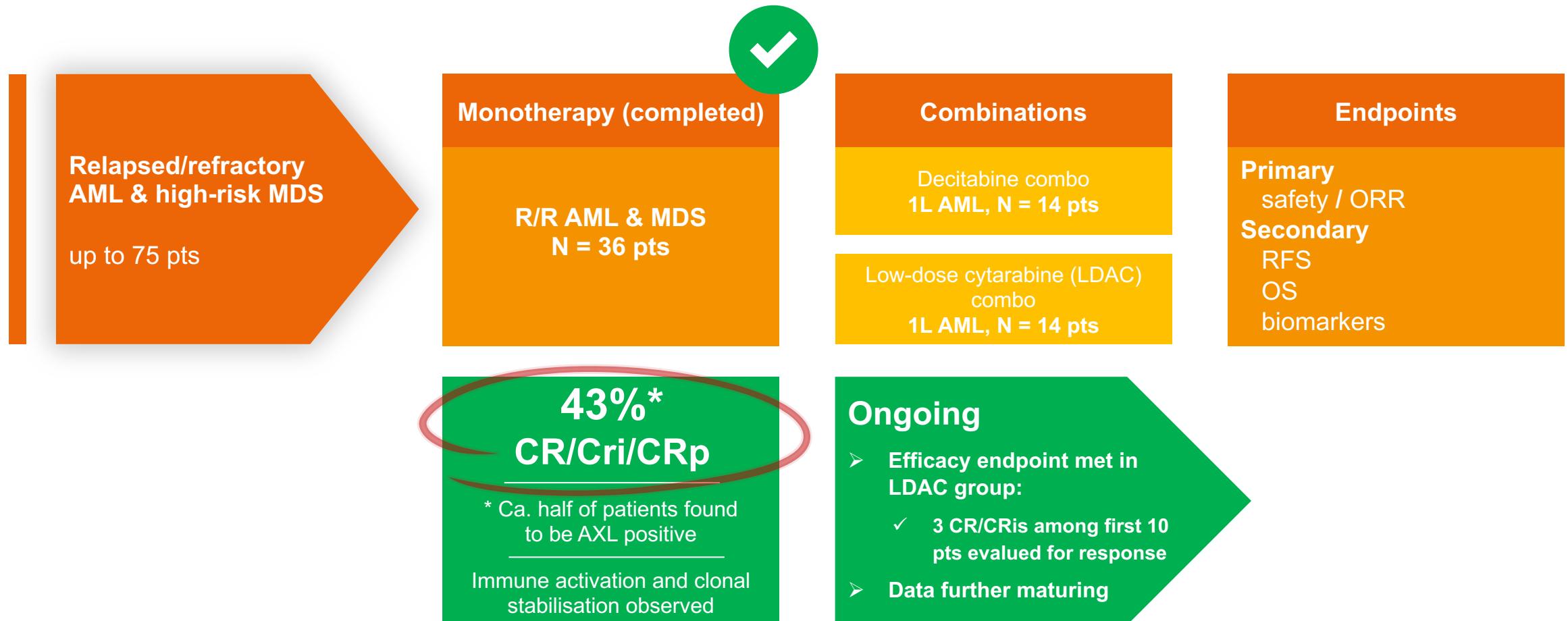
2L: targeted therapy* or best supportive care

bemcentinib monotherapy opportunity

* In R/R AML, targeted inhibitors are approved for patients harbouring IDH1, IDH2 or FLT3 mutations

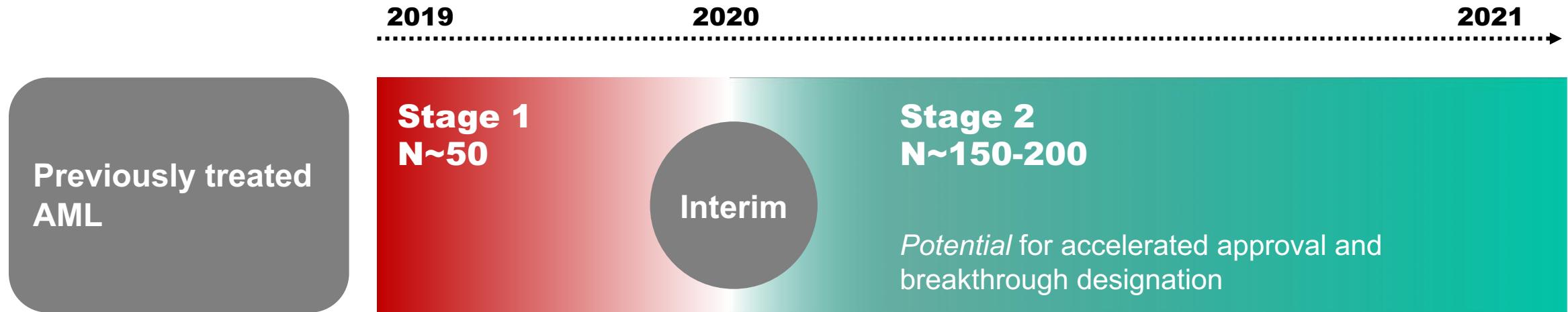
Phase II PoC in AML/high risk MDS:

Monotherapy and combination with LDCT*



Late stage development in AML:

Monotherapy activity is registerable endpoint in previously treated AML



Ref. BGBC008 / NCT03184571

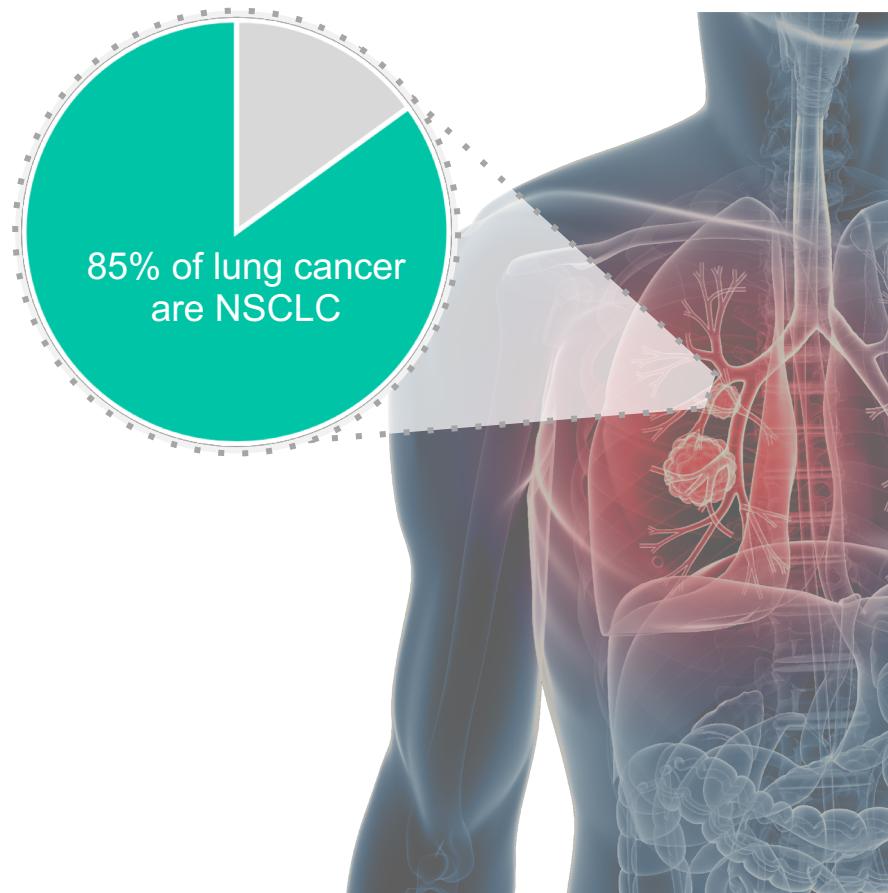
Bemcentinib in NSCLC: Combination with anti-PD(L)1

PoC data in combo with KEYTRUDA, previously treated, IO naïve
NSCLC:

- ✓ **27% ORR in PD-L1 –ve patients**
- ✓ **40% ORR in AXL+ve patients**



NSCLC causes more cancer related deaths than breast, colon, pancreas and prostate combined

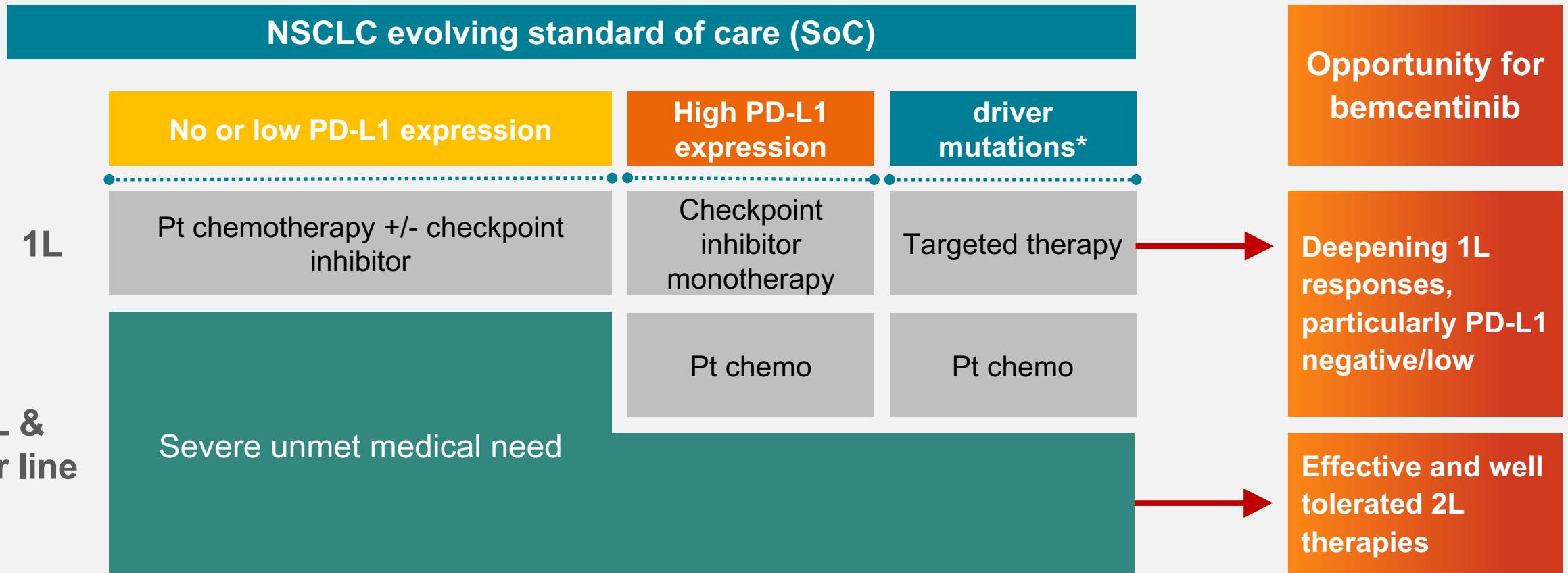


The largest cancer killer, most patients depend on drug therapy

- 2.09 million new cases of lung cancer diagnosed/yr worldwide, making up 11.6% of all cancer cases¹
- 1.76 million lung cancer deaths/yr worldwide¹
- In the U.S, 5-year survival rate is approximately 18.6%, and 4.7% in patients with distant metastases²

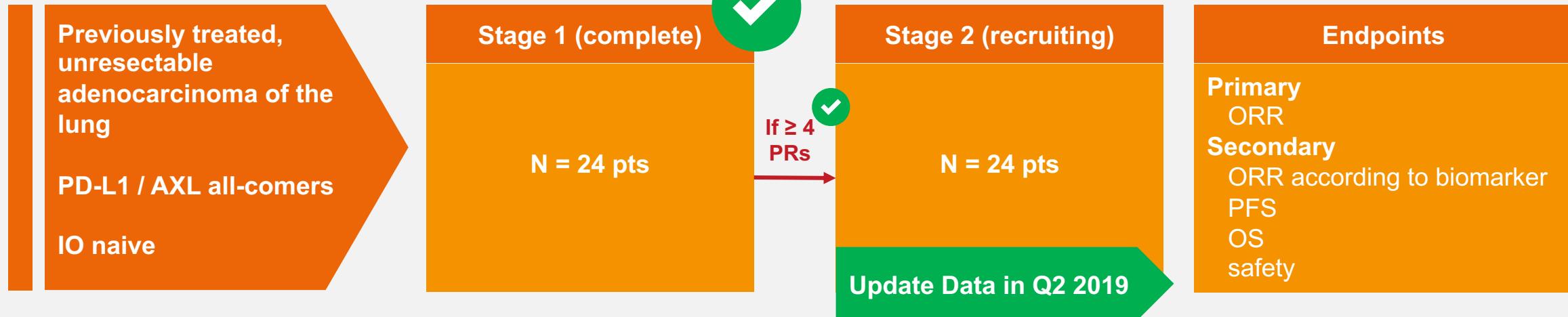
Non-small cell lung cancer is the most common type of lung cancer, making up 80-85% of lung cancers

Rapidly emerging SoC creates opportunities for novel effective, chemo free regimens

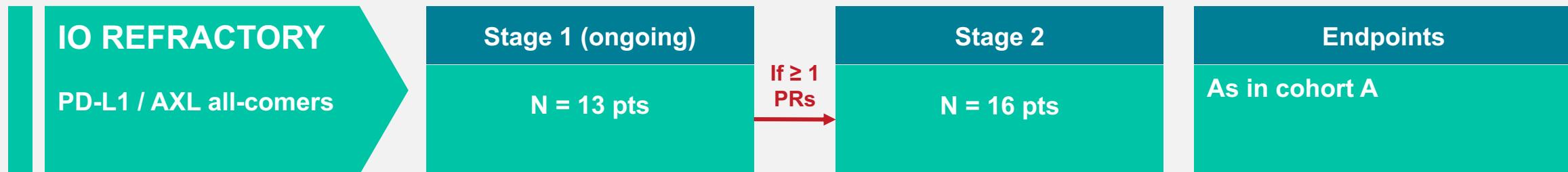


Phase II 2L NSCLC study of bemcentinib with KEYTRUDA

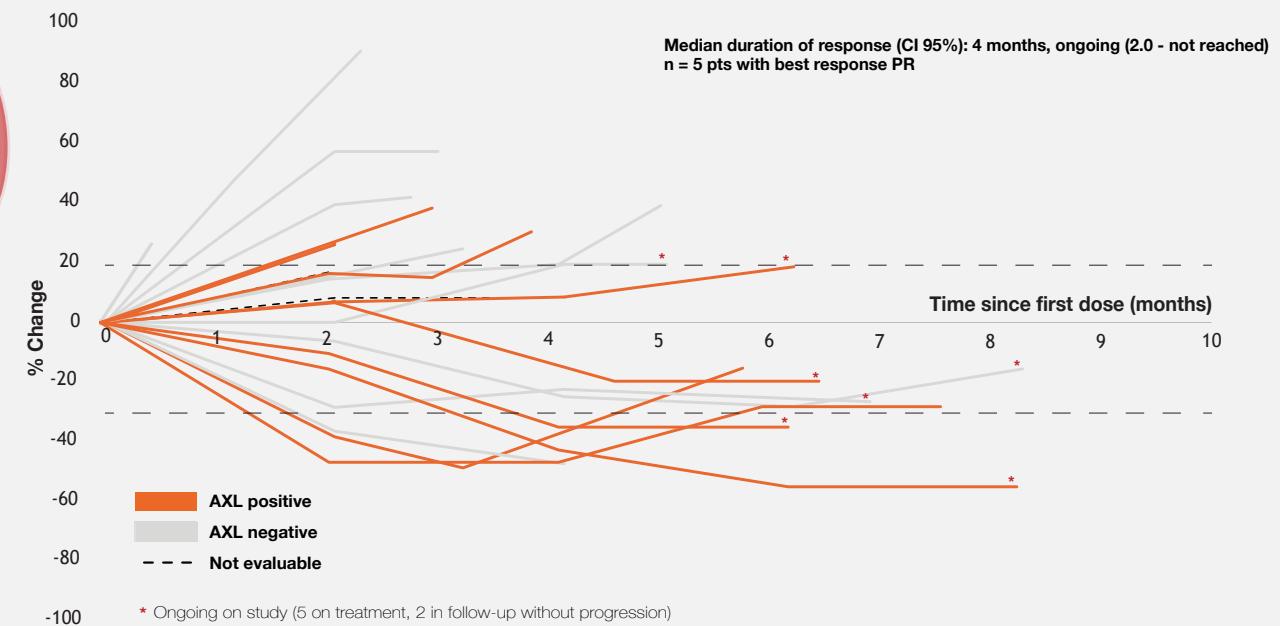
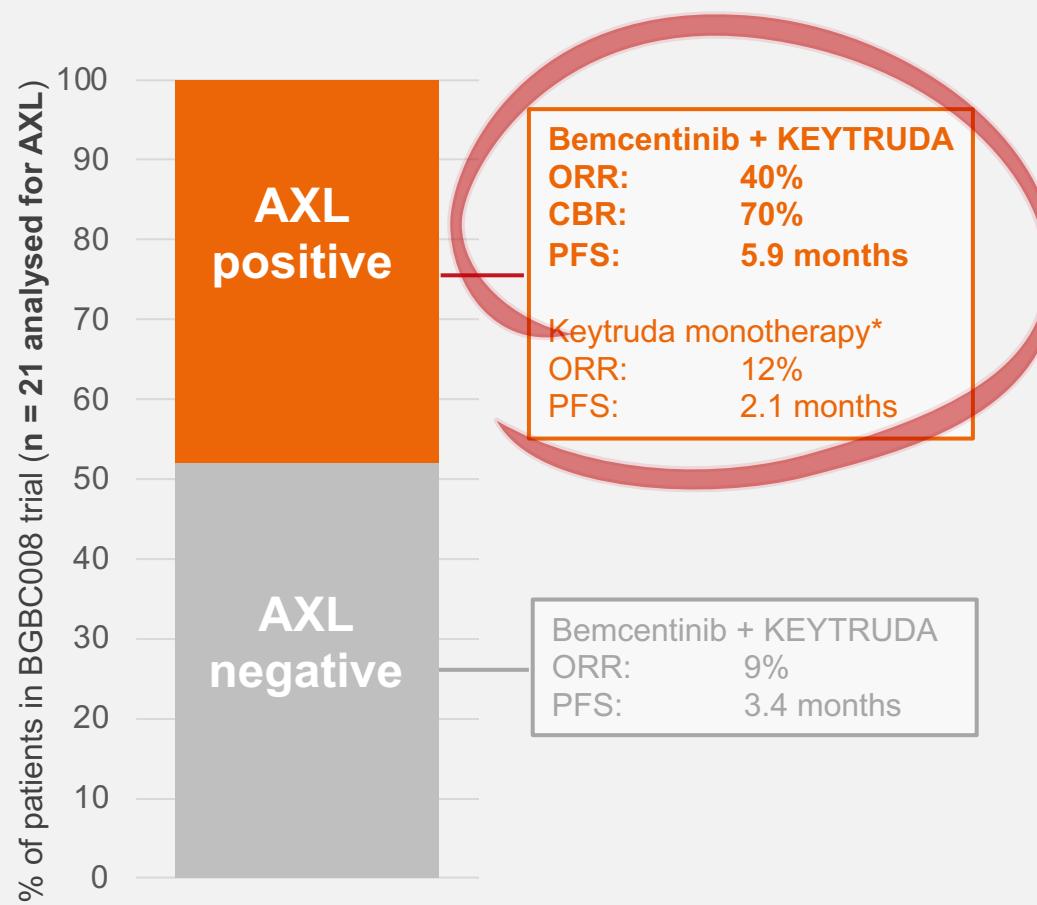
Cohort A



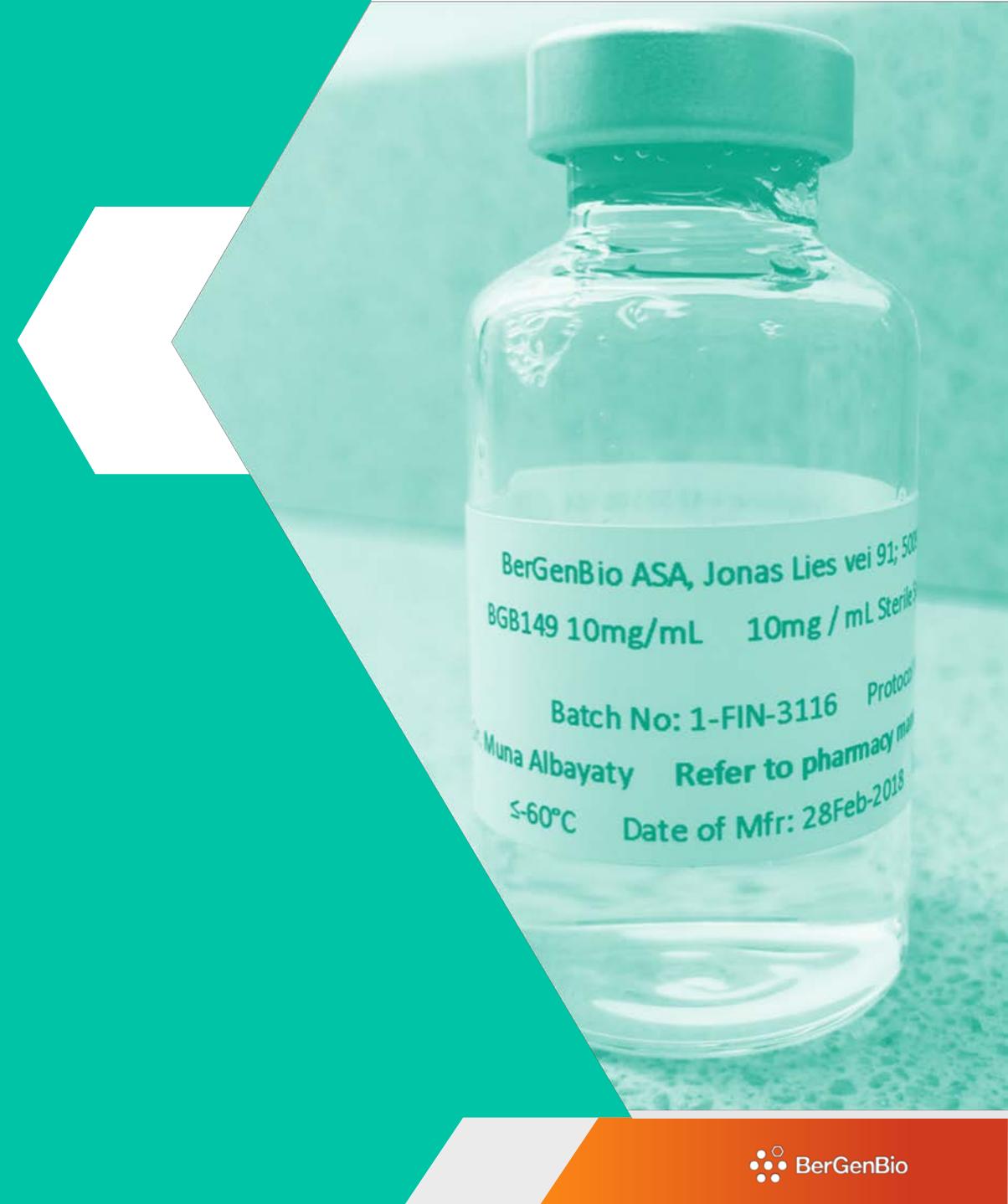
Cohort B



Cohort A PoC data bemcentinib + KEYTRUDA: Superior efficacy in AXL +ve pts.



BGB149 – a monoclonal anti-AXL antibody



BGB149: Anti-AXL monoclonal antibody

Phase I clinical trial ongoing

Functionally blocking humanised monoclonal antibody

Binds human AXL, blocks AXL signalling

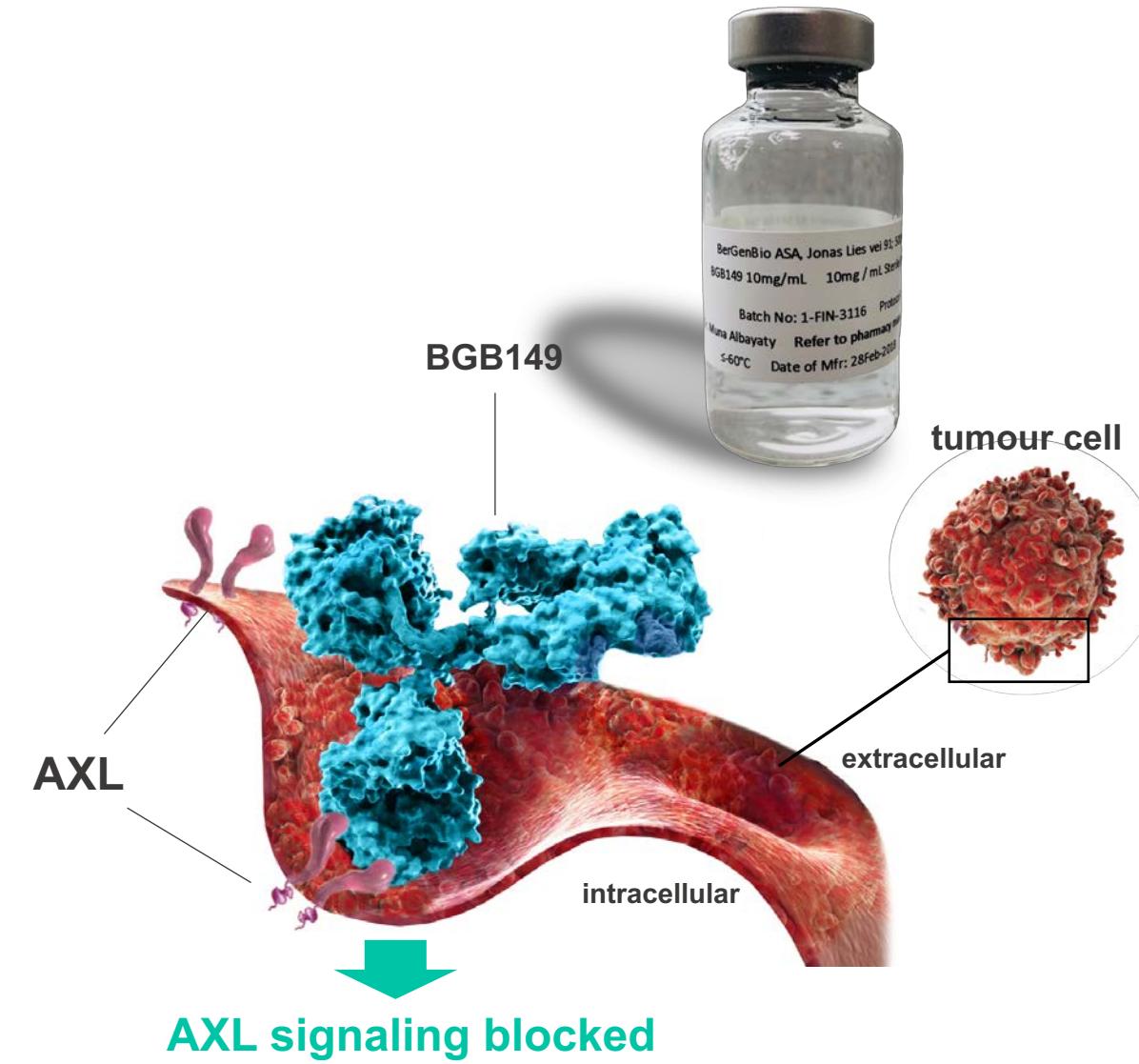
High affinity (KD: 500pM), Anti-tumour efficacy demonstrated *in vivo*

Robust manufacturing process established, 18 months stability

First-in-human healthy volunteer Phase I study initiated

- Up to 36 subjects
- Safety, PK/PD

First-in-patient trial expected in H2 2019

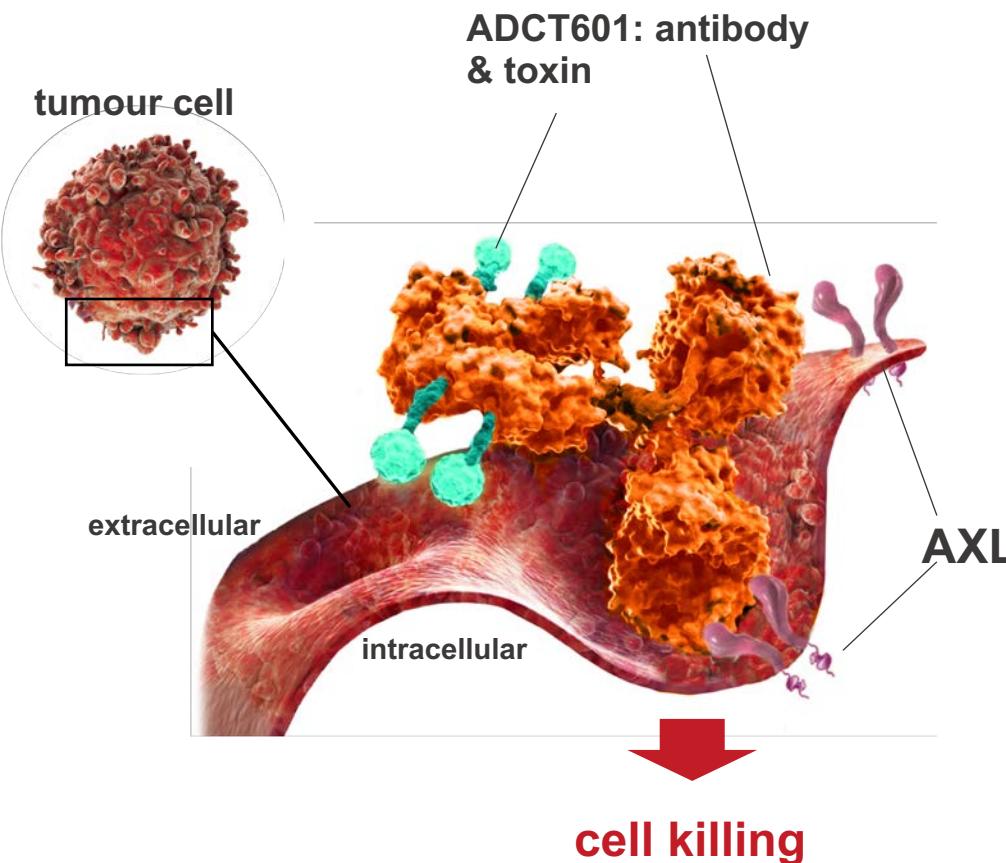


ADCT-601 – AXL ADC



BGB601/ADCT-601: Anti-AXL ADC Phase 1 in solid tumours ongoing

Out-licensed to ADC Therapeutics (ADCT)



Antibody Drug Conjugate (ADC)

Targets human tumour AXL, induces cell death when internalised

Potent and specific anti-tumour activity demonstrated preclinically¹

First-in-human Phase I study initiated in Jan 2019

- Solid tumours
- Up to 75 patients
- Safety, PK/PD, preliminary efficacy

Based on anti-AXL antibody BGB601 licensed from BerGenBio

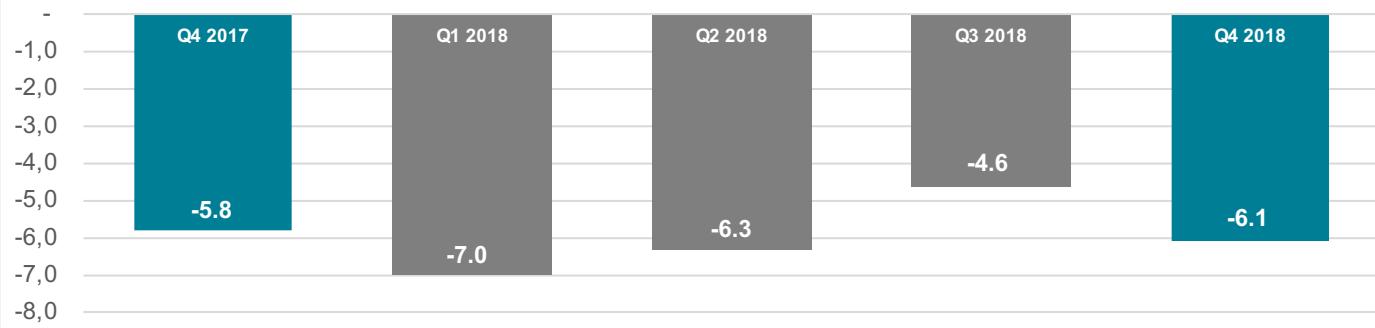
Finance



Key financial figures

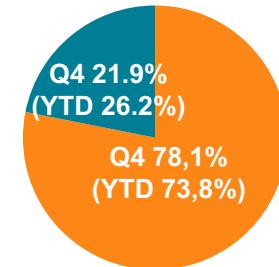
(USD million)	Q4 2018	Q4 2017	FY 2018	FY 2017
Operating revenues	0.3	0	0.3	0
Operating expenses	6.3	5.8	24.2	22.2
Operating profit (loss)	-6.1	-5.8	-23.9	-22.2
Profit (loss) after tax	-6.1	-5.8	-23.6	-22.0
Basic and diluted earnings (loss) per share (USD)	-0.11	-0.12	-0.44	-0.48
Net cash flow in the period	-4.5	-3.5	-1.0	25.2
Cash position end of period	41.5	45.1	41.5	45.1

Operating profit (loss) USDm



- Q4 18 operating loss reflecting level of research and development activities in the quarter
 - Revenue USD 0.3 million, licence revenue triggered by pre-clinical milestone (ADCT-601)
 - Stage 2 of NSCLC combination with Keytruda re-opened in Q4 18 and ongoing (mandatory safety review in Q3 18)

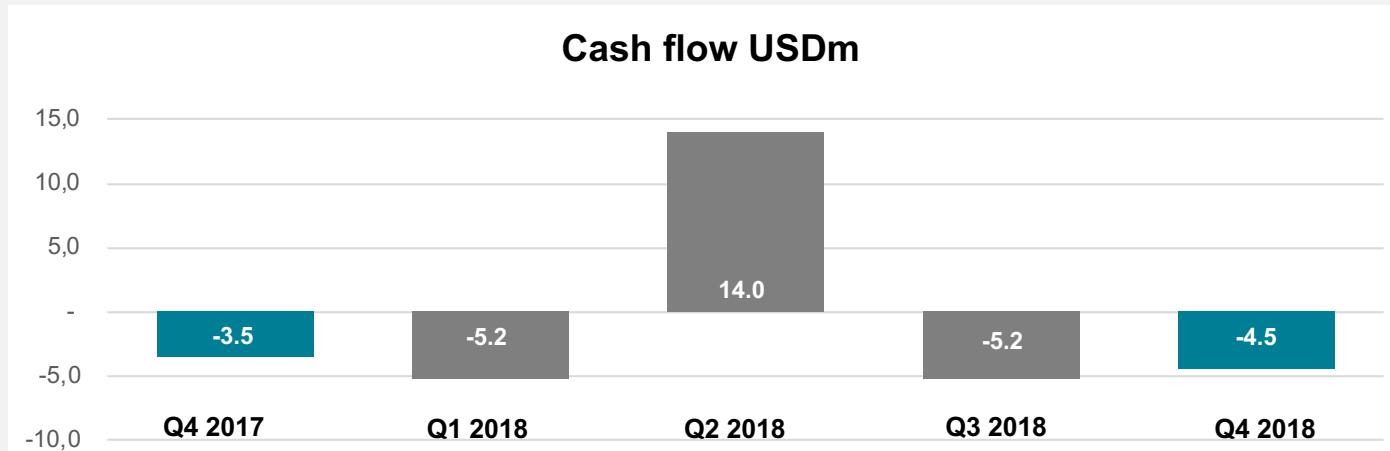
Operating expenses Q4 2018



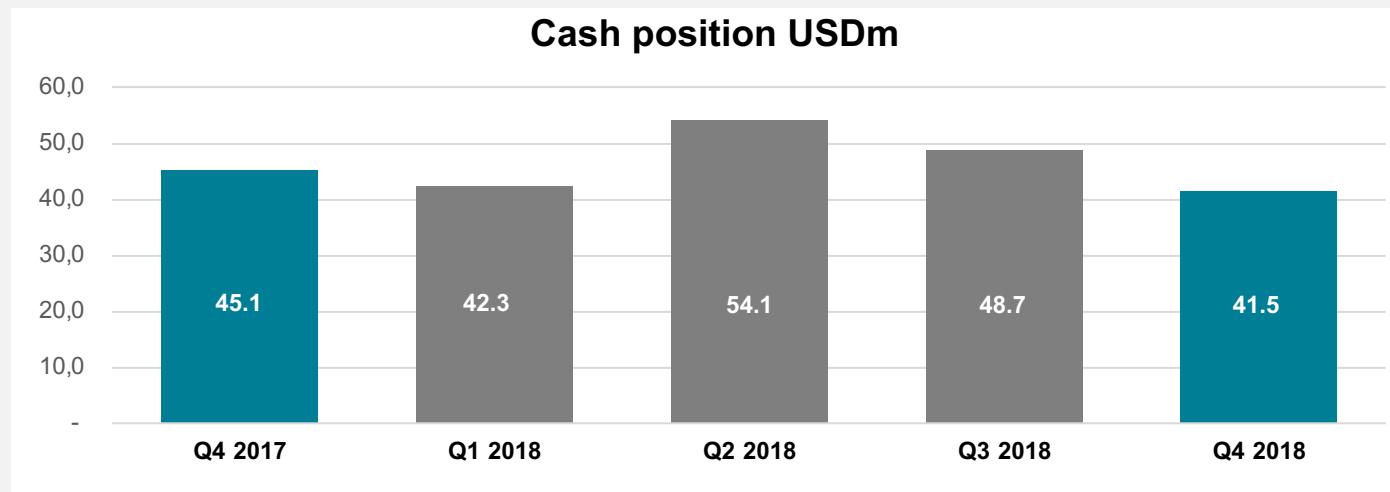
■ R&D ■ Administration

- Effective organisation
- 78.1% (YTD 73.8%) of operating expenses in Q4 2018 attributable to Research & Development activities

Cash flow and cash position



- Private placement Q2,18 strengthened cash position - gross funds raised USD 24m
- Quarterly cash burn average 2018 at USD 5.7 million

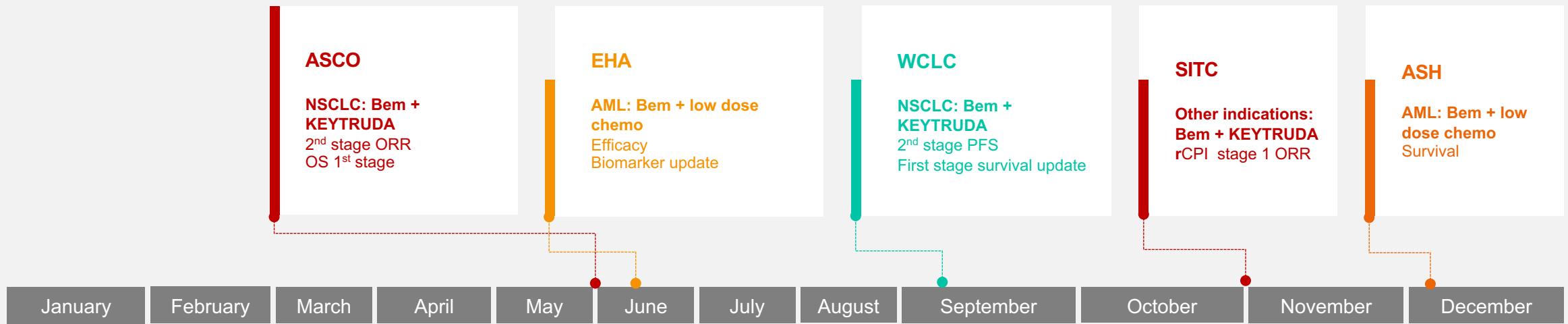


- Cash position gives runway to deliver key clinical read outs from ongoing clinical studies
- Cash runway into 2020 based on current burn rate

2019 news flow



Expected clinical updates in 2019



BGBIO – Summary



World leaders in understanding AXL biology

Pipeline opportunities in multiple cancers and fibrosis



3 selective AXL inhibitors in clinical development

Phase II Proof of Concept:

43% ORR in R/R AML/MDS (monotherapy)

40% ORR in 2L NSCLC (KEYTRUDA combo)



Resourced to deliver significant milestones

YE 2018

Cash NOK 360m/USD 41m

Appendix



BerGenBio

References

Bemcentinib:

Ludwig, K.F.,et al.,(2017) Small molecule Axl inhibition targets tumor immune suppression and enhances chemotherapy in pancreatic cancer,' *Epib ahead of print.*

- Axl associated with poor outcomes in pancreatic cancer uniquely links drug resistance and immune evasion.
- Bemcentinib blocks aggressive traits of pancreatic cancer&enhances activity of gemcitabine.
- Bemcentinib drives tumour cell differentiation and provokes an immune stimulatory microenvironment. Treatment reduces expression of Arginase-1 a key player in immune-suppression.

Guo et al (2017) Axl inhibition induces the antitumor immune response which can be further potentiated by PD-1 blockade in the mouse cancer models, *Oncotarget*

- Axl inhibition via bemcentinib reprograms immunological microenvironmentIncreased proliferation and activation of CD4 and CD8
- Bemcentinib and PD-1 blockade act synergistically

Mode of Action & Biomarkers

Haaland, G.S.,et al.,(2017) 'Association of warfarin use with Lower overall cancer incidence among patients older than 50 years,' *JAMA Intern Med.*, Nov 6.

- Warfarin inhibits Axl signalling and Axl-mediated biological response at doses lower than those which mediate anti-coagulation effects.
- Retrospective analysis of a large population cohort demonstrates that patients on low dose Warfarin had a significantly lower incidence of cancer.

Aguilera, T.A.&Giaccia, A.J. (2017) 'Molecular Pathways: Oncologic Pathways and Their Role in T-cell Exclusion and Immune Evasion-A New Role for the AXL Receptor Tyrosine Kinase,' *Clin. Cancer Res.*, June 15th.

- Immune checkpoint inhibitors are most effective against T-cell inflamed tumours. Non-T-cell or T-cell excluded tumours remain a significant barrier to treatment.
- Axl identified as a key mediator of immune evasion and experimental evidence demonstrates Axl targeting leads to greater anti-tumour immune response post radiotherapy.

Miller, M.A.,et al.,(2017) 'Molecular Pathways: Receptor Ectodomain Shedding in Treatment, Resistance, and Monitoring of Cancer,' *Clin. Cancer Res.*, Feb 1.

- Proteases known as sheddases cleave the extracellular domain of several receptor tyrosine kinases such as Axl generating soluble Axl (sAxl).
- Plasma levels of sAxl are predictive of patient response to standard of care BRAF&MEK inhibitor therapy and could be used for patient stratification strategies.

Antony et al (2017) The GAS6-AXL signaling network is a mesenchymal (Mes) molecular subtype-specific therapeutic target for ovarian cancer. *Science Signalling*

- Axl particularly abundant in ovarian cancer subtype designated as mesenchymal (Mes)
- Axl co-clustered cMET, EGFR, and HER2, producing sustained extracellular signal-regulated kinase (ERK) activation in Mes cells
- Bemcentinib reduced tumor growth in chick chorioallantoic membrane model.

Kanzaki, R.,et al.,(2017) 'Gas6 derived from cancer-associated fibroblasts promotes migration of Axl-expressing lung cancer cells during chemotherapy,' *Nature Scientific Reports*, Sept 6th.

- Tumor stroma microenvironment (TME) is comprised of cancer-associated fibroblasts (CAF) which influence cancer cells such as non-small cell lung cancer (NSCLC).
- In a murine model, NSCLC treated with cisplatin induced an up-regulation of Gas6.
- NSCLC line H1299 migrated in response to Gas6.
- The CAF cell line LCAHexpresses GAS6 and can promote H1299 cell migration.
- Conclusion- CAF derived GAS6 promotes migration of Axl-expressing lung cancers.

Reviews

Levin et al (2016) Axl Receptor Axis: A New Therapeutic Target in Lung Cancer. *J Thoracic Oncol*

Chouaib et al (2014) Tumor Plasticity Interferes with Anti-Tumor Immunity. *Critical Rev Immunology*

Gay et al (2017) Giving AXL the axe: targeting AXL in human malignancy. *BJC*

Brown et al (2016) Gene of the month: Axl. *BMJ*

Halmos et al (2016) New twists in the AXL(e) of tumor progression. *Science Signalling*

Resistance

Zucca, L.E.,et al.,(2017) 'Expression of tyrosine kinase receptor AXL is associated with worse outcome of metastatic renal cell carcinomas treated with sunitinib,' *Urol Oncol.*, Oct 3.

- Renal cell carcinoma (RCC) represents 2-3% of all cancers in the Western world.
- First line therapy is sunitinib (PDGF/VEGF TK inhibitor).
- 47% of RCC patients treated with sunitinib were +ve for Axl.
- Axl expression in sunitinib treated patients correlated with worse clinical outcome (13 months Vs 43 months survival).

Husain, H.,et al., (2017) 'Strategies to Overcome Bypass Mechanisms Mediating Clinical Resistance to EGFR Tyrosine Kinase Inhibition in Lung Cancer,' *Mol. Cancer Ther.*, Feb 2017.

- Patient treated with EGFR based therapies develop resistance via multiple mechanisms.
- Resistant metastatic lung cancers exhibit increased AXL, EMT and PDL1 expression.

Elkabets et al (2015) AXL Mediates Resistance to PI3Ka Inhibition by Activating the EGFR/PKC/mTOR Axis in Head and Neck and Esophageal Squamous Cell Carcinomas. *Cancer Cell*

- Axl mediates persistent mTOR activation and upregulated in resistant tumors
- Combined treatment with PI3Ka and either EGFR, AXL, or PKC inhibitors reverts this resistance

Mak et al (2015) A patient-derived, pan-cancer EMT signature identifies global molecular alterations and immune target enrichment following epithelial to mesenchymal transition. *Clin Cancer Res*

- EMT signature was developed based on 11 tumor types
- Axl frequently overexpressed in EMT tumors along with PD-L1, PD1, CTLA4, OX40L, and PDL2
- highlights the possibility of utilizing EMT status--independent of cancer type--as an additional selection tool to select patients who may benefit from immune checkpoint blockade

Zhang et al (2012) Activation of the AXL kinase causes resistance to EGFR targeted therapy in lung cancer. *Nature Genetics*

Mueller et al (2014) Low MITF/AXL ratio predicts early resistance to multiple targeted drugs in melanoma

- high Axl in melanoma cells correlates with drug resistance
- BRAF and ERK inhibitors are more effective when using Axl inhibition

Fibrosis

Hogaboam, C.,et al.,(2017) 'Evaluation of TAM receptors inhibitors in IPF,' Keystone Symposium.

- IPF patients with high expression of Axl are rapid (declining lung function) progressors.
- Bemcentinib inhibited the fibrogenic phenotype of IPF patient derived fibroblasts.
- GAS6 knockout animals were protected from Bleomycin induced lung fibrosis (Gold standard model of pulmonary fibrosis).
- Bemcentinib inhibited the development of fibrosis in the IPF SCID mouse model (Human IPF fibroblasts induce pulmonary fibrosis in the SCID mouse).

Staufer K.,et al.,(2017) 'The non-invasive serum biomarker soluble Axl accurately detects advanced liver fibrosis and cirrhosis,' *Cell Death Dis.* Oct 26.

- sAxl confirmed to be accurate biomarker of liver fibrosis and cirrhosis.
- sAxl/albumin demonstrated to be further enhancing as a cheap and accurate biomarker.

Barcena et al (2015) Gas6/Axl pathway is activated in chronic liver disease and its targeting reduces fibrosis via hepatic stellate cell inactivation. *J Hepatology*

- Axl levels paralleled HSC activation
- Axl ko mice displayed decreased HSC activation in vitro and liver fibrogenesis after chronic damage by CCl4 administration
- Bemcentinib reduced collagen deposition and CCl4-induced liver fibrosis in mice.

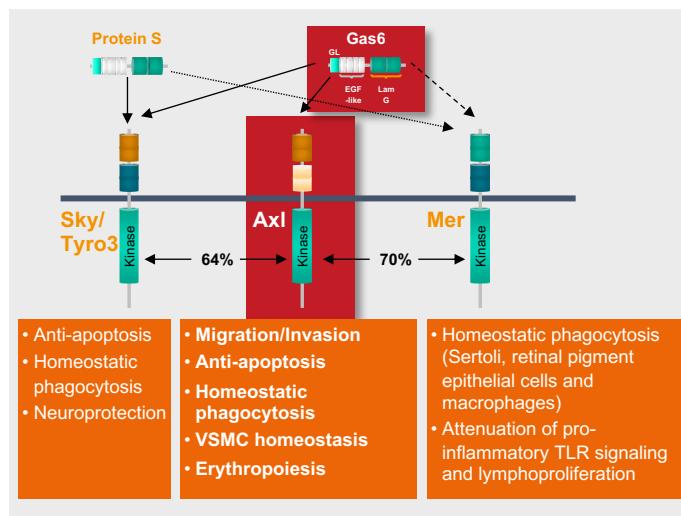
Bemcentinib PoC data



Bemcentinib: uniquely selective for AXL, excellent clinical safety profile

AXL is the only TAM member that drives aggressive cancer

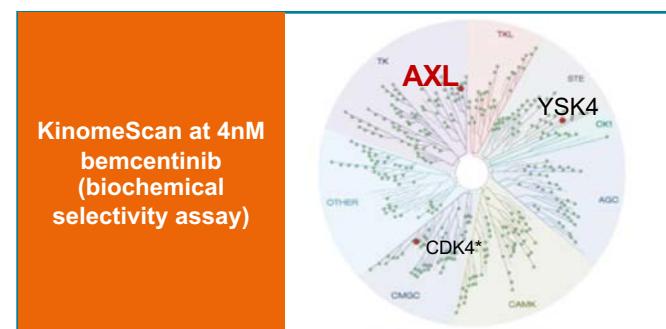
- TAM family members Tyro and Mer have homeostatic roles¹
- TAM kinase domains are highly homologous
- TAM ligands promiscuous



Bemcentinib was discovered by cell-based counterscreen and as a result is highly selective for AXL

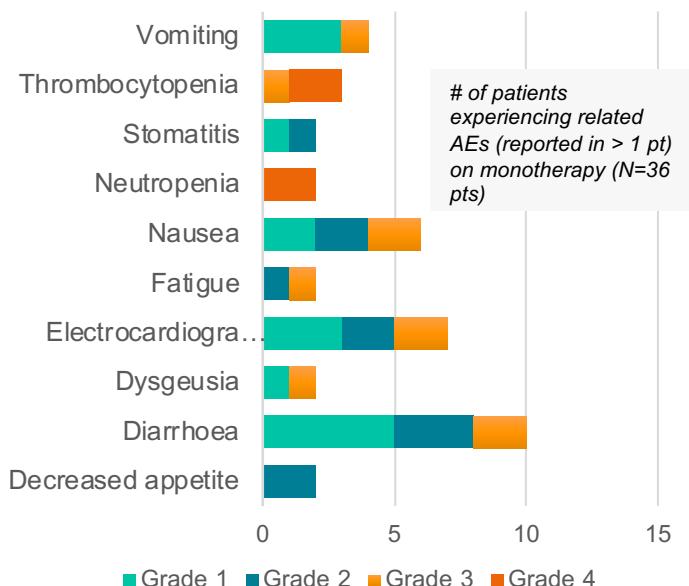
- Bemcentinib is highly potent and selective, particularly over other TAM receptors
- Not spectrum-selective: no activity against Met, Flt3, Ron

Cell based selectivity assay: EC50 (μ M) ²	AXL	0.014
Mer	49.49	
Tyro	>160	



Bemcentinib has excellent clinical safety profile

- Combo did not lead to new findings
- HV SAD study: 50mg – 1.5g, MTD not reached



Monotherapy efficacy with biomarker correlation



Relapsed / refractory AML & MDS, unfit for intensive chemo (BGBC003)

All comers

Daily bemcentinib
single agent

Dose escalation ASH 2018

N = 27*
(complete)

Expansion

N = up to 14 each
IIT
N = up to 43
(ongoing)

	Overall (n=27)		sAXL low (n=14)		sAXL high (n=11)	
	n	%	n	%	n	%
CR/CRI/CRp	6	22%	6	43%	0	0%
SD	8	30%	3	21%	5	45%
PD*	13	48%	5	36%	6	55%
ORR	6	22%	6	43%	0	0%

Median age of all patients: 74.5

Responses included poor risk and secondary disease

mDoR = 3.4 months

43% ORR in patients with +sAXL biomarker



Later line NSCLC, EGFR wt and mutant (BGBC004, trial complete)

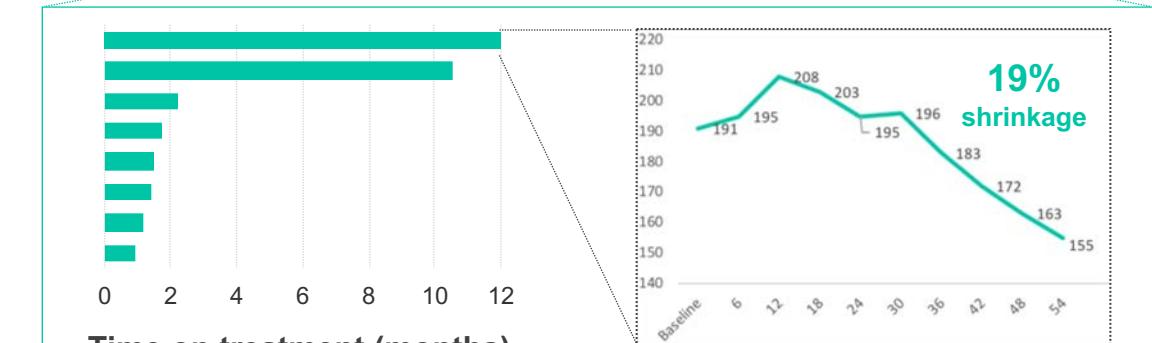
All comers

Daily bemcentinib
single agent

Phase I ENA 2016

N = 8
(complete)

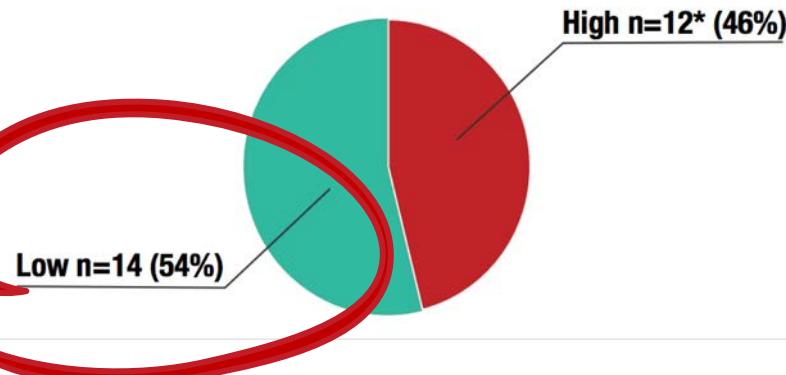
**RP2D confirmed
for combination
studies**



25% DCR for ca 1 year, including 1 minor response

Bemcentinib monotherapy exhibits potent anti-leukaemic activity 2L R/R patients

Biomarker:
Soluble AXL (sAXL) at screen:
Inversely correlated with AXL receptor activity



Superior response rate in patients positive for AXL biomarker

	Overall (n=27)		sAXL low (n=14)		sAXL high (n=11)	
	n	%	n	%	n	%
CR/CRi/CRp	6	22%	6	43%	0	0%
SD	8	30%	3	21%	5	45%
PD*	13	48%	5	36%	6	55%
ORR	6	22%	6	43%	0	0%

• 2 evaluable patients were not evaluable for sAXL status
• Monotherapy responses. One additional response was reported in combination with decitabine for a total of 7 responses in phase I/II.
• 1 CR, 4 CRi, 1 CRp

* PD includes patients who progressed or came off study before having completed 3 cycles of treatment.

Median age of all patients: 74.5

Responses included poor risk and secondary disease

- ✓ Bemcentinib monotherapy is well tolerated: mild and manageable side effect profile with low incidence of Grade 3/4 events
- ✓ Low incidence of hematological adverse effects

Intention-to-treat population included 36 patients, 9 of whom were not evaluable for efficacy (8 were exposed to treatment for <21 days, 1 was a first line patient). sAXL levels were available for 25 evaluable patients.
Source: Loges, et al. ASH 2018.

Monotherapy shows promising efficacy in comparison to approved & emerging regimens

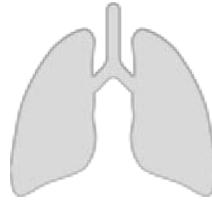


Approved,
limited pt
populations
only

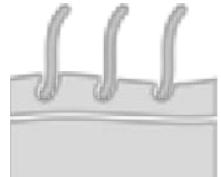
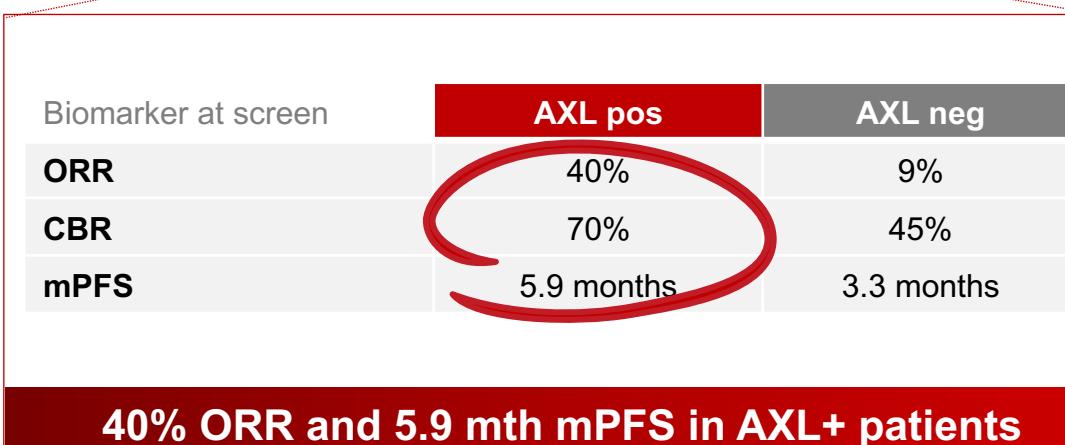
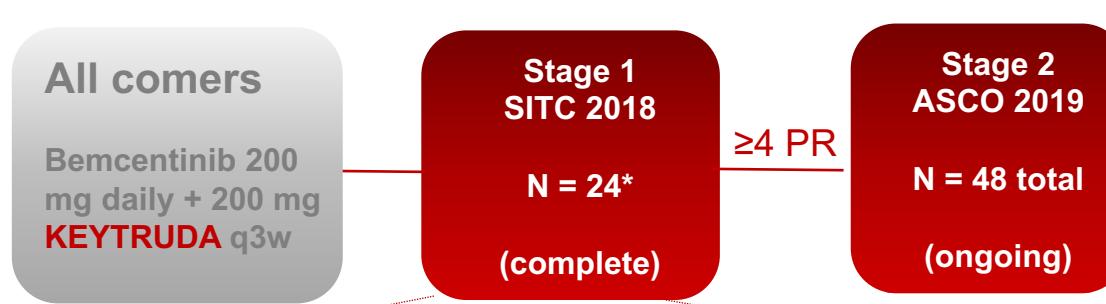
Emerging
therapies
in R/R AML
presented
at ASH

Regimen	Overall response	Patient population	Mechanism of action	Administration	Source
Bemcentinib (Phase II)	42,8 %	low soluble AXL	selective AXL inhibitor	oral, once-daily	Loges et al, ASH 2018
Enasidenib (APPROVED)	40,3 %				
Ivosidenib (APPROVED)	41,6 %				
Gilteritinib (APPROVED)	21,0 %				
Gemtuzumab ozogamicin (APPROVED)	26,0 %				
Quizartinib (Phase III)	48,0 %	FLT3-ITD-positive	FLT3-ITD inhibitor	oral, once-daily	Cortes J, et al; ASH 2018, Blood
Venetoclax (Phase II)	19,0 %				
IMGN632 (Phase I)	33,0 %	CD123-positive	CD123-targeting antibody-drug conjugate	IV infusion, once every 3 weeks	Daver N, et al; ASH 2018, Blood
IMGN779 (Phase I)	6,9 %				
AMG 330 (Phase I)	11,4 %				
XmAb14045 / SQZ622 (Phase I)	23,1 %	any r/r AML	CD123-/CD3-targeting bispecific antibody	IV intermittent infusion, weekly in 28 day cycles	Ravandi et al, ASH 2018, Blood
Flotetuzumab (Phase I/II)	22,0 %				
CYAD-01 (Phase I)	42,0 %				

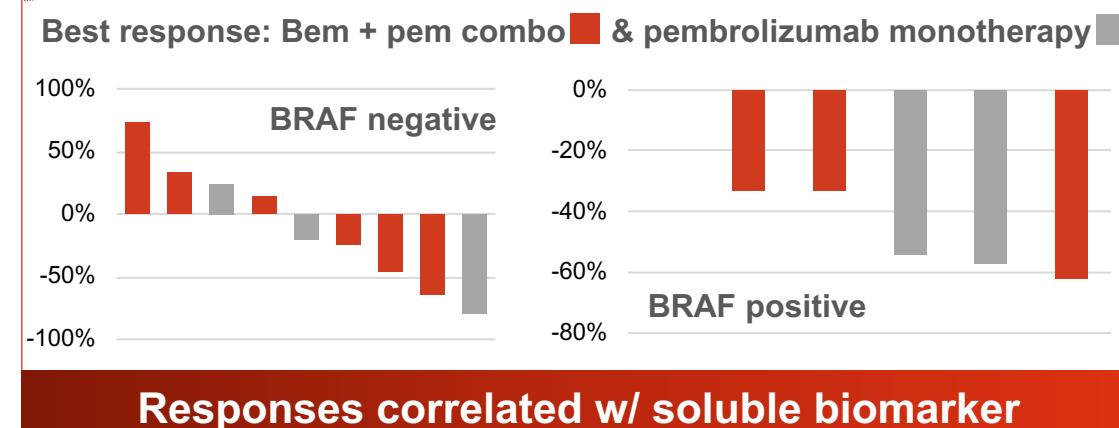
KEYTRUDA efficacy increased in combination and correlated with tumour AXL



Advanced NSCLC, 1 prior line of Pt, IO-naïve (BGBC008)



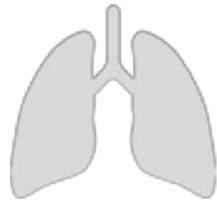
Newly diagnosed advanced melanoma (BGBIL006)



Promising efficacy in comparison to approved monotherapy and emerging combinations*

Regimen	Overall Response Rate					PFS	Patient details / Biomarker	Mechanism of action	Administration	Source
	0%	10%	20%	30%	40%					
Bemcentinib + pembrolizumab (Phase II)	n=10				40%	5.9 mo	AXL positive, any PD-L1 (TPS 0-49% in 70%)	selective AXL inhibitor	oral, once daily	Krebs, M, et al; SITC 2018
Pembrolizumab (APPROVED)	n=344	18%				3.9 mo	PD-L1 positive (TPS>1%)	PD-1 inhibitor	IV infusion, once every 3 weeks	FDA label, prescribing info
Atezolizumab (APPROVED)	n=425	14%				2.8 mo	any PD-L1 (55% PD-L1 positive)	PD-L1 inhibitor	IV infusion, once every 3 weeks	FDA label, prescribing info
Nivolumab (APPROVED)	n=135	20%				3.5 mo	any PD-L1 (53% PD-L1 positive), squamous	PD-1 inhibitor	IV infusion, once every 2 weeks	FDA label, prescribing info
Nivolumab (APPROVED)	n=292	19%				2.3 mo	any PD-L1 (54% PD-L1 positive), non-squamous	PD-1 inhibitor	IV infusion, once every 2 weeks	FDA label, prescribing info
Epacadostat + pembrolizumab (Phase I/II)	n=70		29%			4.0 mo	prior treatment w/ CT; IO-naive; responses regardless of PD-L1 (no details provided)	selective inhibitor of IDO1 enzyme	oral, twice daily	Villaruz, L, et al; WCLC 2018 abstract
HBI-8000 + nivolumab (Phase Ib/II)	n=8			38%		not yet available	includes CPI-naïve and – experienced patients	HDAC class I & IIb inhibitor	oral, twice weekly	Khushalani, N, et al; SITC 2018
TSR-042 (Phase I)	n=32		25%			not yet available	PD-L1 low (TPS 0-49%)	PD-1 inhibitor	IV infusion, once every 3 weeks	Perez, D, et al; SITC 2018
TSR-022 + TSR-042 (Phase I)	n=31	13%				not yet available	patients include IO-naive and - experienced; all responses in PD-L1 positive (TPS>1%)	anti-TIM-3 antibody + anti-PD-1, respectively	IV infusion, once every 3 weeks	Davar, D, et al; SITC 2018
Ramucirumab + pembrolizumab (Phase Ia/b)	n=11	18%				9.7 mo	PD-L1 negative (TPS<1%)	anti-VEGFR2	IV infusion, once every 3 weeks	Herbst, R, et al; ASCOPubs 2018, JCO

Prevention and reversal of resistance to targeted therapy



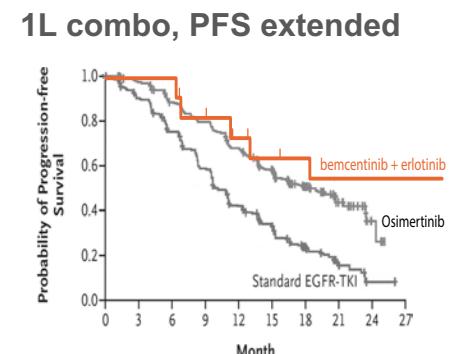
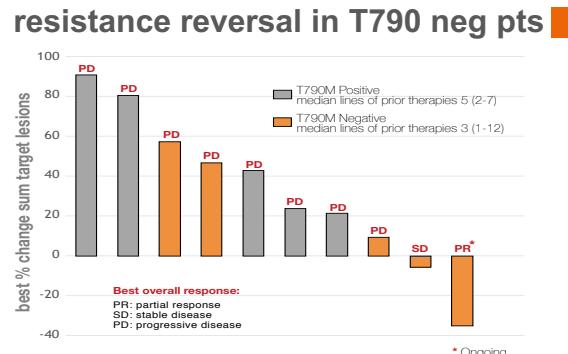
Advanced NSCLC, first and second line (BGBC004, trial complete)

All comers

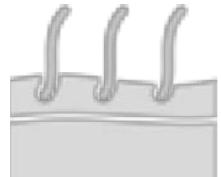
Bemcentinib 200 mg daily + 150 mg TARCEVA daily

Arm B: reversal of resistance to TARCEVA
WCLC 2018
N = 14

Arm C: prevention of resistance to TARCEVA
N = 14



Extended PFS in 1L, 40% CBR in 2L, T790M neg pts



Newly diagnosed advanced melanoma (BGBIL006)

BRAFm w/ high tumour burden

Bemcentinib 200 mg daily + BRAF/MEKi daily

R

BRAF/MEKi

Phase II (ongoing)
ESMO 2018

N = ca 40 total

Best response: Bem + BRAF/MEKi combo & BRAF/MEKi mono



Responses correlated w/ soluble biomarker

Prevention and reversal of resistance to chemotherapy



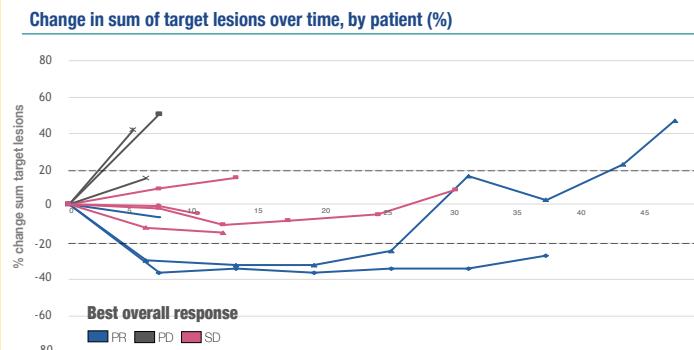
Later line NSCLC, includes CPI failures (BGBIL005)

All comers

Daily bemcentinib + **docetaxel** q3w
Dose escalation & expansion

Phase I/II (ongoing)
WCLC 2018

N = up to 30



PRs & SDs included patients who previously failed CPI

73% CBR (8 of 11 evaluable pts) incl. 2 PRs, PFS ca 7m

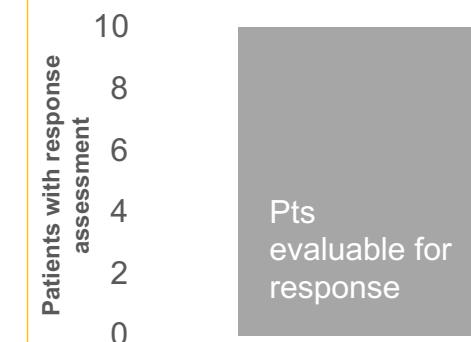
1L & 2L AML, combination with low-dose cytarabine (LDAC, BGBC003)

1L & 2L AML unfit for intensive therapy

Daily bemcentinib + **LDAC**

Phase II (ongoing)
Press release April 1

N = up to 14



To date:

3 CR/CRI out of first 10
Early responses, improved over time and included poor risk, previously treated patients, no additive toxicities

CR/CRI

30 % CR/CRI rate in first 10 evaluable patients

Competitors

Axl inhibitors - competitive landscape

