BerGenBio ASA

Biotech Showcase 8th January 2019



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\$BGBIO - Investment Highlights



Clinical portfolio of first-in-class AXL therapeutics

Leaders in developing selective AXL inhibitors

Two clinical assets: bemcentinib (Ph2), AXL-antibody BGB149 (Ph1)

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

Pipeline opportunities in multiple cancers and fibrosis



Ph2 data in NSCLC & AML with selective AXL inhibitor bemcentinib

Monotherapy and combinations with immune-, targeted and chemotherapies

Biomarker correlation across programme, parallel CDx development

AXL positive patients:

40% ORR in 2L NSCLC (KEYTRUDA combo)

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

Randomised programme to start H2 2019



Resourced to deliver significant milestones

Clinical trial collaborations with Merck and leading academic centres

AXL ADC out licensed to ADC Therapeutics SA

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

Cash (USD50m, Sep 30 '18) to milestones: Ph2 bemcentinib, Ph1 BGB149



Experienced management team with international experience



RICHARD GODFREY

MRPharmS, MBA

Chief Executive Officer









ALAN BARGE, MD
MD
Chief Medical Officer (interim)







RUNE SKEIE Chief Financial Officer

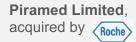






ANTHONY BROWN
PHD, MBA
Chief Scientific Officer

British Biotech
(os1) pharmaceuticals







PROF JAMES LORENS
PHD
Co-founder, senior scientific advisor



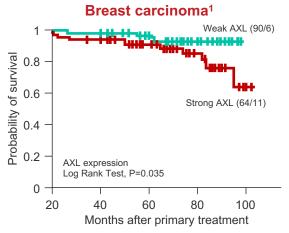


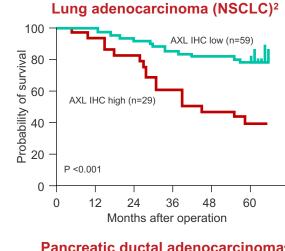


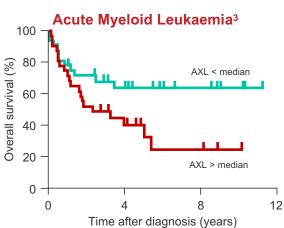


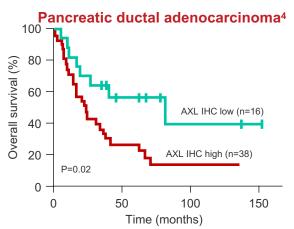
AXL is independent negative prognostic factor in most cancers

Strong AXL expression correlates with poor survival rate









Broad evidence of AXL linked with poor prognosis⁵

Astrocytic brain tumours	Melanoma
Breast cancer	- Mesothelioma
Gallbladder cancer	NSCLC
GI	Pancreatic cancer
Colon cancer	Sarcomas
Oesophageal cancer	Ewing Sarcoma
Gastric cancer	Kaposis sarcoma
Gynaecological	Liposarcoma
Ovarian cancer	Osteosarcoma
Uterine cancer	Skin SCC
HCC	Thyroid cancer
HNC	Urological
Haematological	Bladder cancer
• AML	Prostate cancer
• CLL	• RCC
• CML	

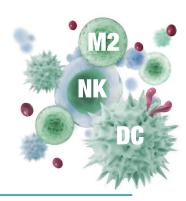


AXL receptor tyrosine kinase drives aggressive disease including therapy resistant, immune-evasive tumours



Drives tumour cell plasticity: non-genetic resistance mechanism

Key suppressor of innate immune response



AXL drives features of aggressive cancer:

- Acquired therapy resistance
- Immune escape
- Metastasis

AXL is an innate immune checkpoint:

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

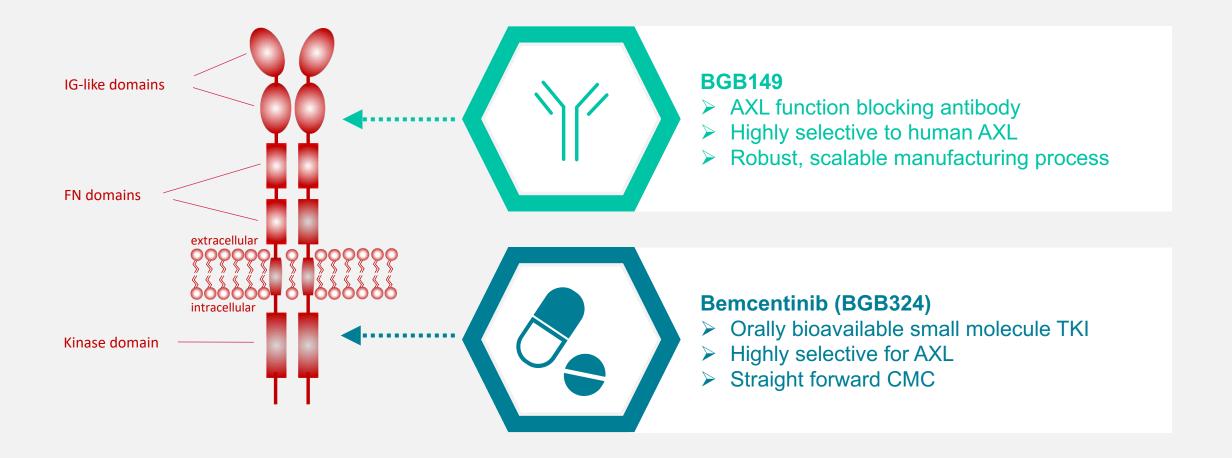
very low expression under healthy physiological conditions (ko mouse phenotypically normal)

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

overexpression correlates with worse prognosis in most cancers



Two first-in-class selective AXL inhibitors



Clinical development programmes of AXL inhibitors

> 350 patients at 50 sites across Europe and US

		Preclinical	Phase I	Phase II	Phase III	Status
Selec	ctive AXL kinase inhibitors					
Bemc	entinib: selective oral small molecule AXL inhibitor					
	NSCLC + KEYTRUDA (2L, IO naïve)	previously treated a	dvanced adenocarcinoma	of the lung	MERCK (1)	Stage 1 complete, 40% ORR in AXL+; stage 2 ongoing
	NSCLC + TARCEVA (1L & 2L)	advanced NSCLC v	vith activating mutation of E	EGFR		Fully recruited, 1 st efficacy endpoint met
	NSCLC + docetaxel (later line) (2)	previously treated a	dvanced NSCLC			IIT, ongoing – latest update WCLC 2018
*	AML single agent + low dose chemo (1L & 2L)	AML or previously t	reated MDS unfit for intens	ive chemo		Ph1b complete, 43% ORR in AXL+ R/R AML/MDS; Ph2 ongoing
	IIT programme in additional oncology indications (2)	Melanoma, mesoth	elioma, pancreatic, glioblas	toma, MDS		IIT, ongoing & in set-up
	Fibrosis - preclinical	IPF, NASH				Pre-clinical work published throughout 2018
3GB1	49: anti-AXL mAb					
	Healthy volunteers – phase 1a dose escalation	Healthy volunteer S	SAD			
3GB6	01: AXL ADC outlicensed					
	Metastatic cancers	Pre-IND	ADC		_	
Com	panion Diagnostics Pipeline	Biomarker Discov	ery Biomark	er Verification	Validation	
Tissue Soluble Additic		Correlation with be targeted and immu	nefit from monotherapy, co notherapy	ombo with		Correlation with efficacy reported





Near term goals

Bemcentinib – selective AXL inhibitor

Complete PoC phase IIa programme in NSCLC & AML/MDS	H1 2019
Start randomised potentially pivotal programme	H2 2019
Complete randomised potentially pivotal programme	H2 2020

BGB149 – AXL function blocking antibody

Complete First-in-Man clinical trial	H1 2019
Advance BGB149 into disease indications	H2 2019



Clinical data in 2018 & 2019

ASCO*

NSCLC: Bem + KEYTRUDA 2nd stage ORR OS 1st stage

EHA*

AML: Bem + low dose chemo Efficacy Biomarker update

WCLC*

NSCLC: Bem + KEYTRUDA 2nd stage PFS First stage survival update

SITC*

Other indications: Bem + KEYTRUDA IIT programme

ASH*

AML: Bem + low dose chemo Survival

- 1L/2L AML chemo combo top line data
- Complete recruitment stage 2 bem + **KEYTRUDA (NSCLC)**

Q2/Q3

- ➤ Initiate randomised potentially pivotal programme
- Complete Phase 1 BGB149

➤ Initiate first-in-patient trials BGB149

* expected

January

February

March

April

Mav

June

August

September

/

October

November

December

ASCO-SITC

Lung cancer, TNBC and AML trial update

- ✓ KEYTRUDA combo well tolerated
- Bemcentinib induces diversification of T-cell receptor repertoire (AML)



Preclinical Update

Bemcentinib increases efficacy of checkpoint inhibitors

ASCO

NSCLC, AML, Melanoma and biomarker update

Bemcentinib enhances responses to

- ✓ IO.
- ✓ chemo,
- ✓ targeted therapies
- and has monotherapy efficacy

EHA

AML trial update

July

Responses to bemcentinib monotherapy correlated with AXL biomarker

WCLC

Lung cancer trials update

- ✓ 40% ORR in AXL+ pts in combo w/ KEYTRUDA
- ✓ Improved PFS in combo with erlotinib and chemo

ESMO

Biomarker update

- ✓ AXL biomarkers identified
- ✓ Melanoma clinical update
- ✓ AXL's role in lowrisk MDS (preclinical)



NSCLC data late breaking

Late-breaking abstract: 5.9m PFS in AXL+ previously treated NSCL in combo w/ KEYTRUDA (c80% improvement in AXL+ pts vs AXL-)



AML trial data update

43% CR/Cri/CRp rate in AXL biomarker positive





Bemcentinib: First-in-class highly selective AXL inhibitor in Phase II

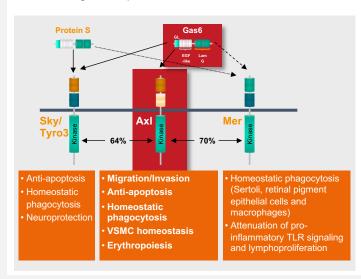




Bemcentinib: uniquely selective for AXL, excellent clinical safety profile

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



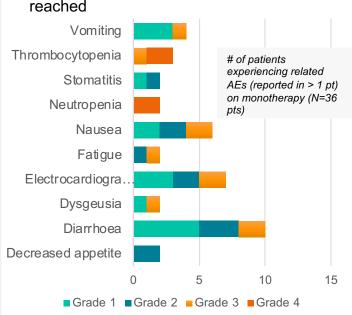
Bemcentinib was discovered by cell-based counterscreen and as a result is highly selective for AXL

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

Cell based	AXL	0.014
selectivity assay: EC50 (μΜ) ²	Mer	49.49
Ε Ο 30 (μινι)	Tyro	>160
KinomeScan at 4nM bemcentinib (biochemical selectivity assay)	Other	AXL YSK4 CDK4*

Bemcentinib has excellent clinical safety profile

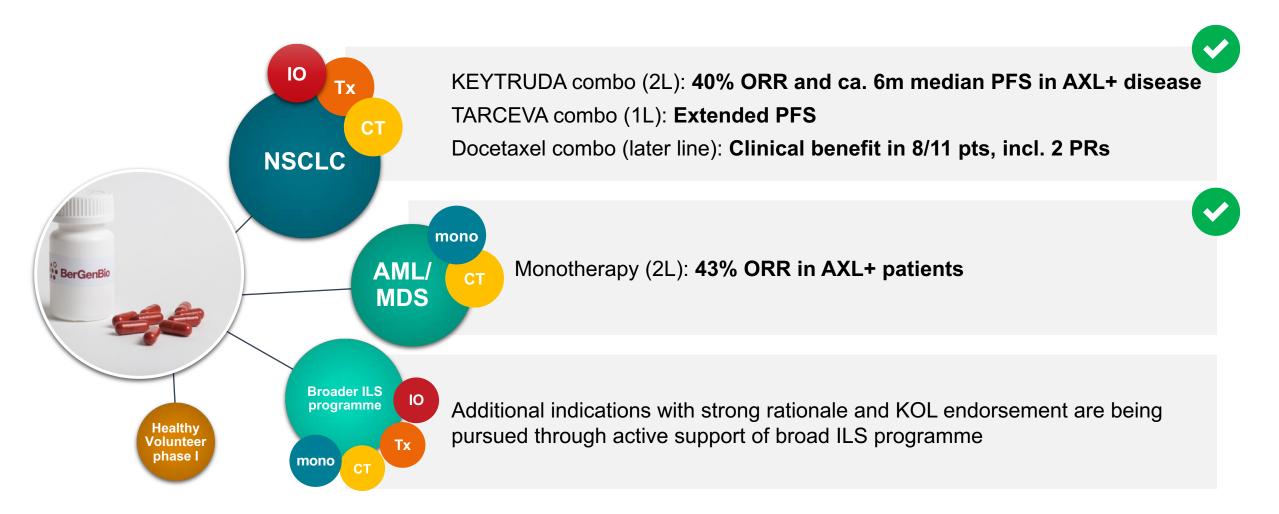
- Combo did not lead to new findings
- HV SAD study: 50mg 1.5g, MTD not reached





Phase II PoC data

- Focus on NSCLC & leukaemia



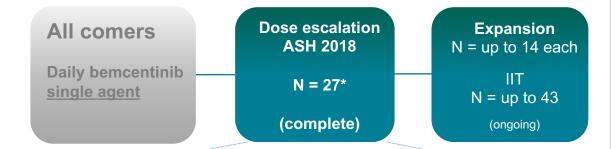
Bemcentinib PoC data summary: Monotherapy and combinations



Monotherapy efficacy with biomarker correlation



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



	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

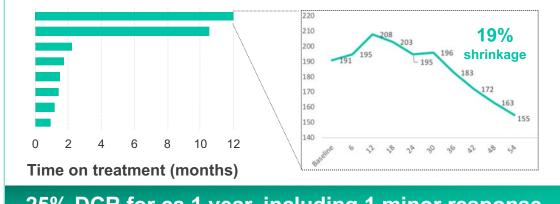
mDoR = 3.4 months

43% ORR in patients with +sAXL biomarker

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







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

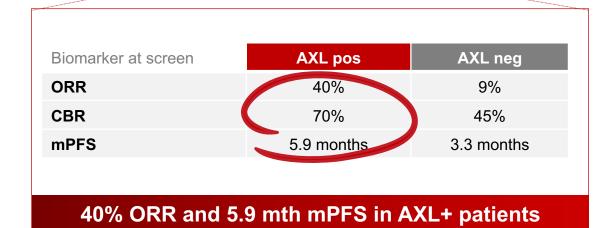


KEYTRUDA efficacy increased in combination and correlated with tumour AXL



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

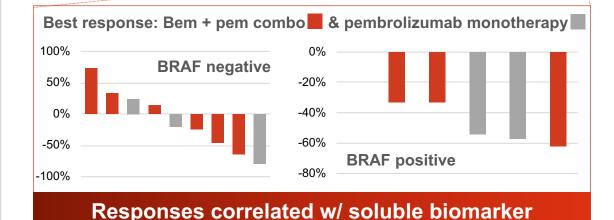




Newly diagnosed advanced



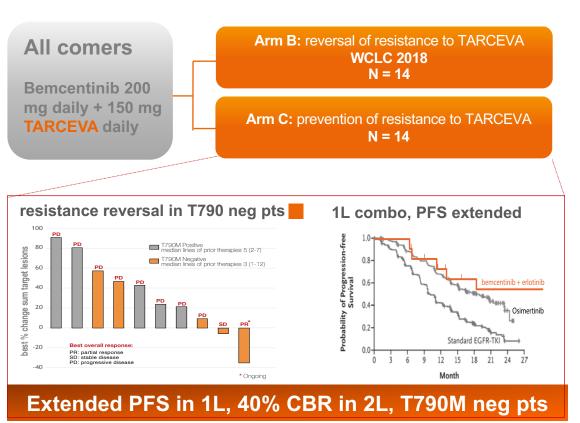




Prevention and reversal of resistance to targeted therapy

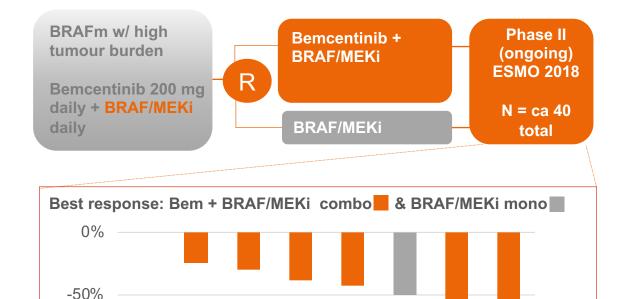


Advanced NSCLC, first and second line (BGBC004, trial complete)



Newly diagnosed advanced melanoma (BGBIL006)





Responses correlated w/ soluble biomarker

-100%

Prevention and reversal of resistance to chemotherapy



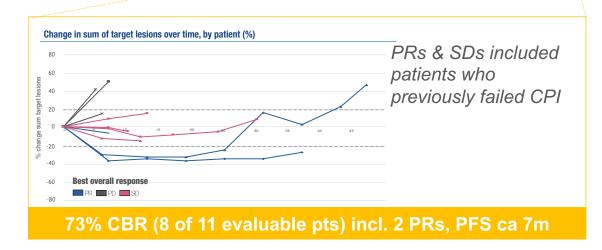
Later line NSCLC, includes CPI failures (BGBIL005)

All comers

Daily bemcentinib + docetaxel q3w
Dose escalation & expansion

Phase I/II (ongoing) WCLC 2018

N = up to 30

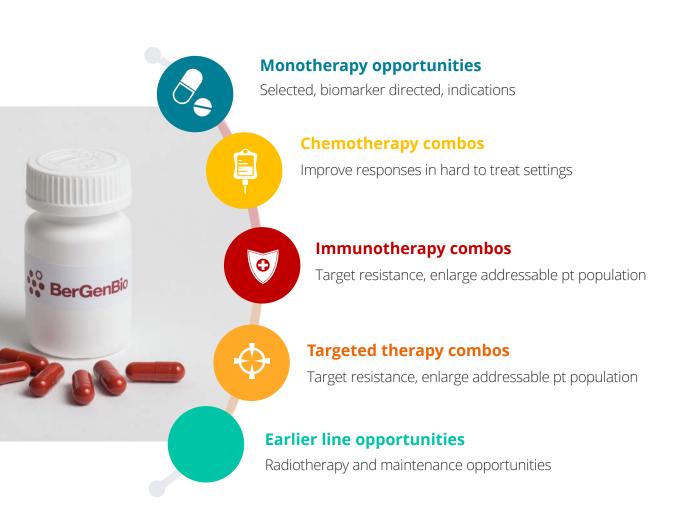


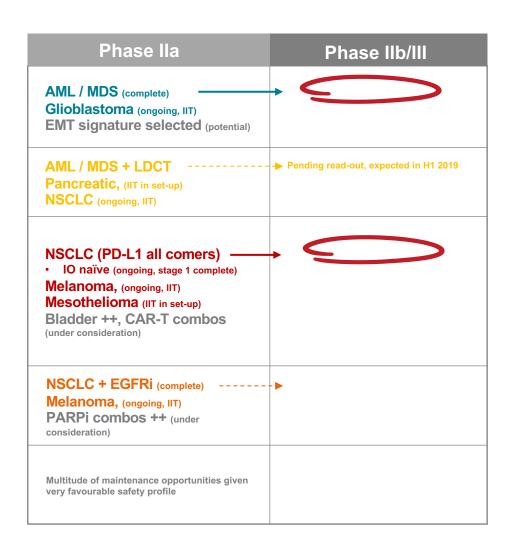
Additional indications to read out in 2019 (BGBC003, IIT programme)



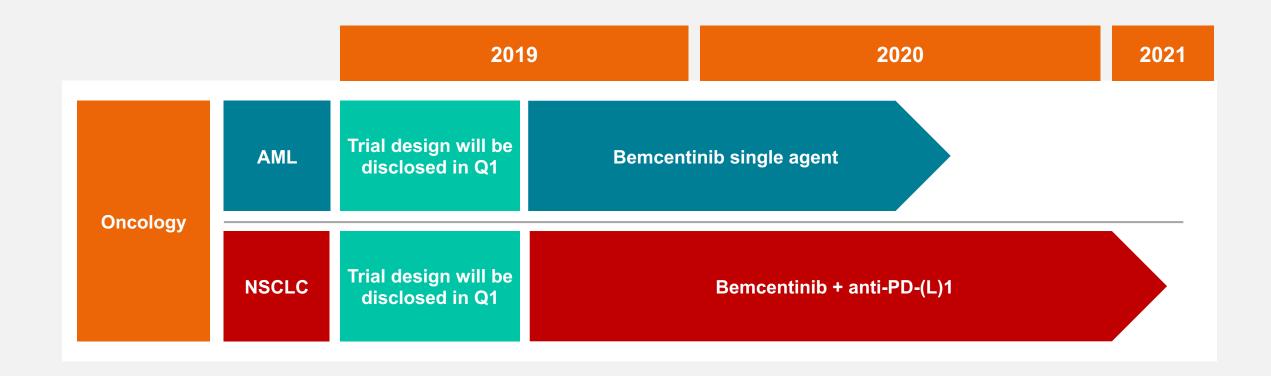
- > AML low dose chemo combo
- Pancreatic, randomised combo of bemcentinib with gemcitabine, nab-paclitaxel & cisplatin

Clinical Development opportunities for bemcentinib





Data generated provides strong rationale for randomised, potentially pivotal programme to start in 2019



Bemcentinib: First-in-class highly selective AXL inhibitor in phll

Strong biological rationale: AXL widely recognised as driver of aggressive cancers and innate immune checkpoint

Excellent clinical safety profile: successfully combines with major classes of cancer drugs with no insignificant added tox

Strong biomarker correlation: blood and tissue based predictive and response biomarkers identified across complete clinical programme

PoC in AML and NSCLC: 43% ORR in AXL+ r/r AML as monotherapy and 40% ORR & 6m PFS in AXL+ NSCLC in combo w/ KEYTRUDA

Randomised studies with the potential to be pivotal starting 2019

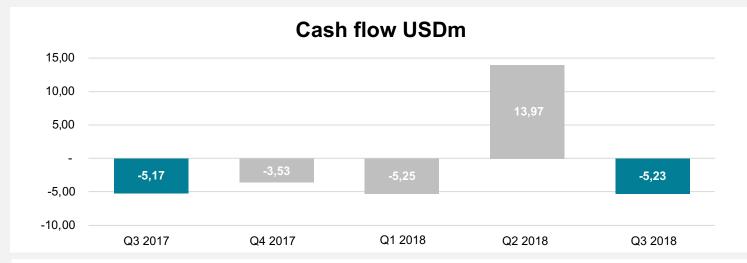
Additional indications: Broad programme of IITs exploring additional oncology indications, strong pre-clinical rationale in fibrosis



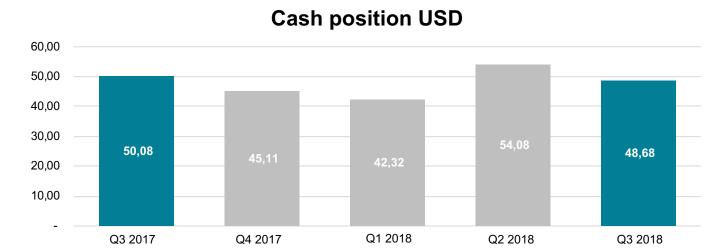
Key financial figures



Cash flow and cash position



- Private placement Q2,18 strengthened cash position - gross funds raised USDm 24.0
- Quarterly cash burn average at USDm 5.5



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



Summary

Two first-in-class highly selective, potent, AXL inhibitors

Bemcentinib Proof-of-concept Phase II clinical data

Bemcentinib clinical development programme to focus on Lung Cancer and Leukaemia

Anticipated cash runway into 2020, with significant milestones in the next 12 months

