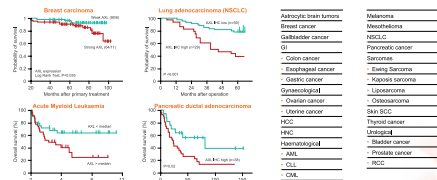


AXL receptor tyrosine kinase

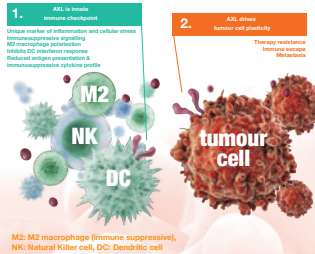
Key driver of tumour plasticity, heterogeneity and immune evasion

High AXL expression is correlated with poor survival in most cancers

Strong AXL expression correlates with poor survival rate Broad evidence of AXL linked with poor prognosis



AXL is an innate immune checkpoint & drives tumour intrinsic cell plasticity



AXL is a receptor tyrosine kinase

- Gas6, single high affinity ligand
- Low expression in normal tissues; upregulated by inflammation and cellular stress
- Unique signal transduction drives
 - Survival
 - Drug resistance
 - Immune suppression / evasion
 - Metastasis
- Interest in AXL as a key target for aggressive disease is increasing rapidly



Benefits of selective AXL inhibition with bemcentinib

Selectivity

- Selective over other kinases and other TAM family members (MerTK, Tyro) specifically
- Allows for rational combinations while reducing the risk of additive toxicity

Safety

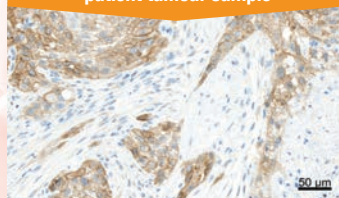
- AXL knockout mice are phenotypically normal
- AXL is the TAM receptor that is specifically upregulated in aggressive disease
- Bemcentinib is well tolerated across BerGenBio combination studies

Efficacy

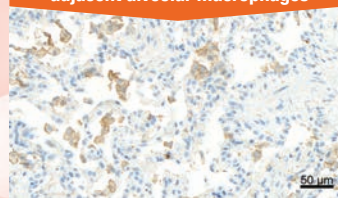
- Single agent activity in AML and NSCLC
- Increased clinical benefit in combination with chemo in NSCLC
- Reverses acquired resistance to erlotinib in NSCLC
- Increases efficacy of checkpoint inhibitors in NSCLC

AXL is detected on patient tumour tissue and adjacent immune cells by BerGenBio proprietary immunohistochemistry method (IHC)

AXL expression in NSCLC patient tumour sample



AXL expression in tumour adjacent alveolar macrophages



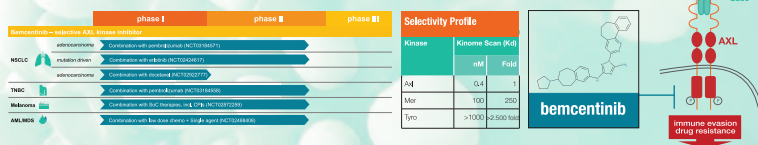
Bemcentinib

First-in-class, highly selective and orally bioavailable AXL inhibitor

- ✓ **Once a day capsule**
- ✓ **Most advanced selective oral AXL inhibitor in clinical development, PoC data in:**
 - monotherapy AML/MDS
 - KEYTRUDA combo NSCLC
 - EGFR inhibitor combo NSCLC
 - chemo combo NSCLC
- ✓ **Wide therapeutic index, well tolerated**
- ✓ **25 kg API manufactured, 100 mg capsule, shelf life > 3 years at RT confirmed**



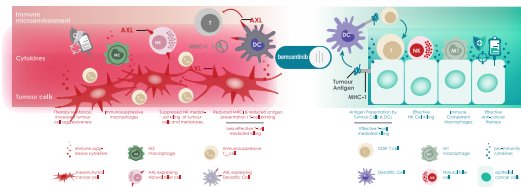
Bemcentinib is developed in combination with immune-targeted and chemotherapy in NSCLC, AML/MDS, melanoma and TNBC.



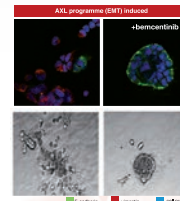
Bemcentinib preclinical data

Selective AXL inhibition to enhance immune cell attack, anti-tumour therapy and prevent spread

Bemcentinib acts on tumour and immune cells

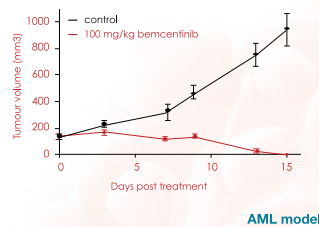


Reverses AXL programme *in vitro*



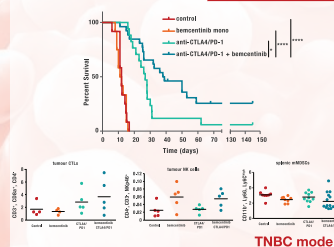
Bemcentinib is active as a monotherapy and in combination with immune-targeted and chemotherapy *in vivo*

Single agent activity



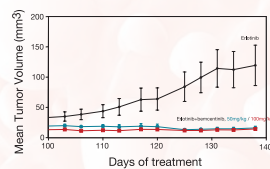
AML model

Combination w/ CPIs



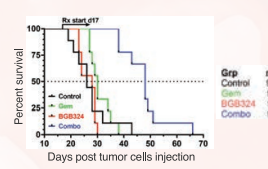
TNBC model

Combination w/ targeted therapy



NSCLC model

Combination w/ chemo

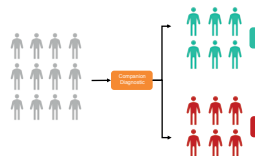


Pancreatic model

Companion Diagnostic

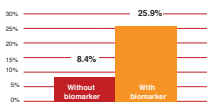
for personalised medicine

What is Precision Medicine?



Why Precision Medicine?

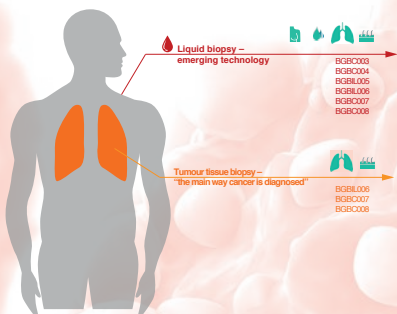
Likelihood of success (Phase I to approval)



- Selecting patients most likely to benefit from treatment
- Improving probability of approval
- Increase reimbursement rates

BerGenBio biomarker programme

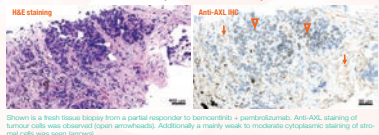
Designed in line with established and emerging techniques: Standard (tissue) and emerging (blood) pathology techniques are used to diagnose cancer and determine optimal, personalised treatment.



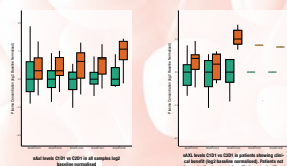
Pre-treatment soluble AXL levels in plasma are predictive of patient benefit in AML/MDS



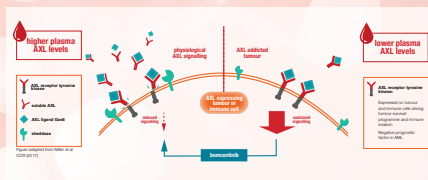
Tissue AXL levels correlate with response in bemcentinib/pembrolizumab combo trial



Pharmacodynamics



AXL drives a tumour survival programme that is increased by reduced receptor shedding



Bemcentinib and KEYTRUDA® in NSCLC

Keytruda® monotherapy showed 10% response rate in previously treated NSCLC patients (Keynote 010).

The BGBC008 trial is designed to test the hypothesis whether AXL inhibition can

- ✓ Enhance responses to immunotherapy

when given in combination with KEYTRUDA in previously treated, immunotherapy-naïve NSCLC patients.

Clinical collaboration with Merck & Co. (MSD)

BGBC008: Phase II trial in NSCLC, bemcentinib with KEYTRUDA

2nd line advanced adeno NSCLC

- IO naïve
- Prior platinum
- measurable disease
- fresh tissue biopsy
- PDL1 +ve and -ve
- AXL +ve and -ve

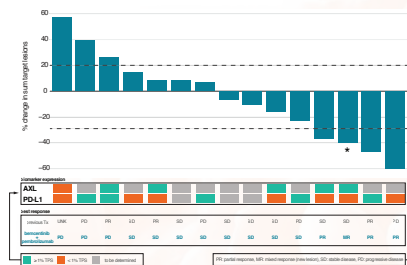
Single arm
bemcentinib,
200mg daily
+
KEYTRUDA,
200mg q3wks

Interim
analysis

Final
analysis

BGBC008: Interim clinical data Phase II trial in NSCLC of bemcentinib with KEYTRUDA

Best response

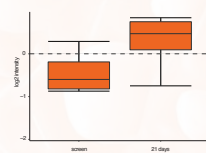


Best overall response according to biomarker expression at time of data cut-off (analysis includes ongoing patients)

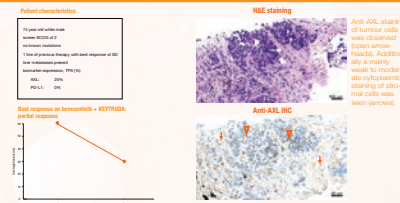
	PR	SD	PD	N	ORR (%)	DCR (%)
All	3	9	3	15	20	80
PDL1 < 1%	2	4	1	7	29	86
AXL ≥ 1%	1	3	1	5	20	80

Biomarkers

Plasma soluble AXL levels increase upon treatment with bemcentinib + KEYTRUDA



Patient case study: AXL biomarker correlated with patient benefit.



Bemcentinib and KEYTRUDA® in TNBC

A Ph II study of the selective AXL inhibitor bemcentinib in combination with pembrolizumab in patients with previously treated, locally advanced and unresectable or metastatic triple negative breast cancer (TNBC) or triple negative inflammatory breast cancer (TN-IB)

The BGBC007 trial is designed to test the hypothesis whether AXL inhibition with bemcentinib can

- enhance responses to immunotherapy

when given in combination with pembrolizumab in previously treated, immunotherapy-naïve TNBC patients.

Clinical collaboration with Merck & Co. (MSD)

Phase II Study of the selective AXL inhibitor bemcentinib in combination with KEYTRUDA

2nd line advanced TNBC or TN-IBC

- Prior taxane &/or anthracycline
- Measurable disease
- Formal tissue biopsy
- PD-L1 +ve and -ve
- AXL +ve and -ve

Single arm

- bemcentinib 200mg daily
- pembrolizumab 200mg 3-weekly

Interim analysis

Final analysis

Study Objectives & Endpoints

Primary Objective: <ul style="list-style-type: none"> Anti-tumour activity of bemcentinib and pembrolizumab in combination 	Primary endpoint: <ul style="list-style-type: none"> Objective Response Rate
Secondary Objectives: <ul style="list-style-type: none"> Safety of bemcentinib and pembrolizumab when given in combination Anti-tumour activity of the combination of bemcentinib and pembrolizumab Pharmacokinetic profile of bemcentinib when given with pembrolizumab Assessment of relevant biomarkers 	Secondary endpoints: <ul style="list-style-type: none"> Duration of Response Disease Control Rate Time to progression Survival at 12 months Response by biomarker expression

Major Inclusion & Exclusion Criteria

Key Inclusion Criteria: <ul style="list-style-type: none"> Histopathologically or cytologically documented TNBC or TN-IBC Locally advanced and unresectable or metastatic TNBC or triple negative inflammatory breast cancer Received one or more prior therapies for TNBC or inflammatory breast cancer in the metastatic setting Prior treatment (metastatic or (neo) adjuvant) must have included a prior taxane and/or anthracycline-based therapy Renal and hepatic and cardiac function within normal ranges Measurable disease as defined by RECIST 1.1 Provision of suitable tumour tissue for the analysis of AXL kinase expression and PD-L1 expression Eastern Cooperative Oncology Group (ECOG) performance score 0 or 1 	Key Exclusion Criteria: <ul style="list-style-type: none"> Has disease suitable for local therapy administered with curative intent Has received more than three previous lines of therapy in the metastatic setting Has received prior therapy with an immunomodulatory agent Has known active central nervous system (CNS) metastases and/or carcinomatous meningitis Indigestion remedies Recent or ongoing systemic steroid therapy
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Translational Analyses

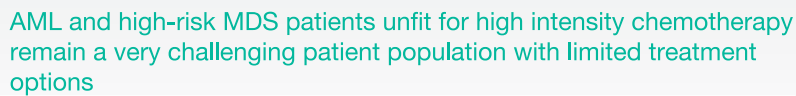
Immunohistochemistry <ul style="list-style-type: none"> PD-L1 AXL 	Liquid biomarkers / PBMCs <ul style="list-style-type: none"> AXL signalling pathway Soluble AXL MAP Kinase pathway signalling Immune cell populations AKT signalling pathway
Pharmacokinetics <ul style="list-style-type: none"> bemcentinib pembrolizumab 	

Participating Countries



Conclusion

14 out of 18 patients analysed were negative for AXL
12 out of 15 patients analysed were negative for PD-L1
Of 18 patients analysed, 1 had a partial response



Bemcentinib in combination with SoC in metastatic melanoma

Although responses to TKIs are rapid, resistance ultimately emerges. Monotherapy checkpoint inhibitor responses can be further improved.

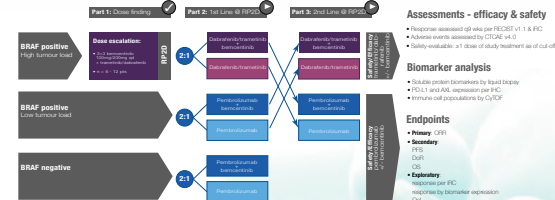
The BGBIL006 trial is designed to test the hypothesis whether AXL inhibition can

- ✓ Enhance responses to immunotherapy
- ✓ Enhance responses to targeted therapy

when given in combination with pembrolizumab or dabrafenib/trametinib in treatment naïve melanoma patients

Ph I/II randomised trial of selective AXL inhibitor bemcentinib in melanoma patients

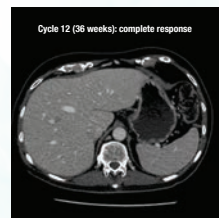
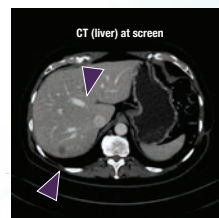
Three part randomised design enrolling up to 92 patients



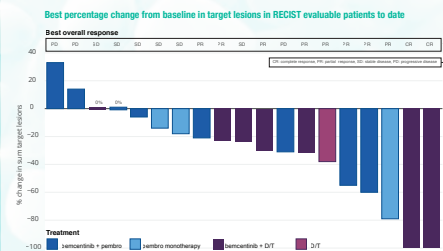
Interim clinical data Phase II trial in metastatic melanoma

Example CR on bemcentinib + dabrafenib/trametinib

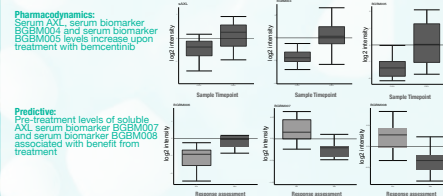
- A 65 year old male was randomised to receive 200 mg/day bemcentinib + standard dabrafenib/trametinib.
- At screening the patient had multiple metastases to the liver and the lungs.
- At cycle 12, he had a complete response.



Best response



Biomarkers



Bemcentinib + TARCEVA® in NSCLC

Patients with EGFR driven NSCLC develop resistance to targeted therapy.

The BGBC004 trial is designed to test the hypothesis whether AXL inhibition can

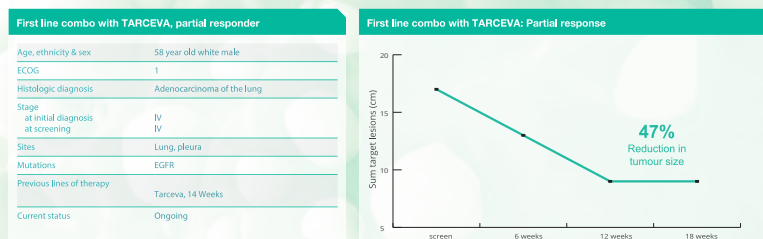
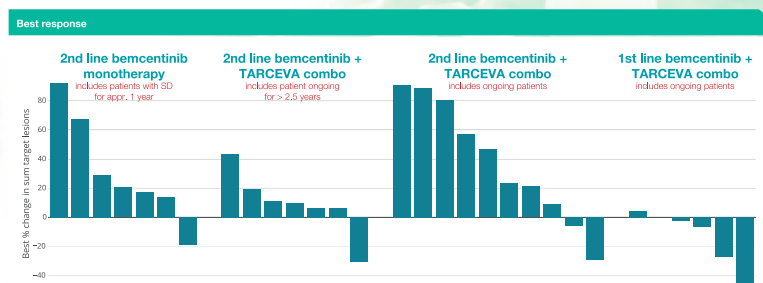
- Reverse and / or
- Prevent resistance to EGFRm targeted therapies

when given in combination with erlotinib in EGFRm NSCLC patients who have either progressed on or have just started EGFRm targeted therapy

BGBC004: Phase II trial in NSCLC of bemcentinib with TARCEVA (erlotinib)

BGBC004 Phase II – NSCLC EGFR-mutation driven		
Stage IIb or IV disease EGFR mutation positive up to 66 pts	Dose escalation (completed) & expansion (ongoing)	Expected readout
	Arm A: safety run-in & expansion	Safety
	Arm B: 2nd line bemcentinib 200mg/d + TARCEVA	Efficacy, PK, biomarkers
	Arm C: 1st line bemcentinib 200mg/d + TARCEVA	
		Initial read-out expected 2H 2018

BGBC004: Interim clinical data Phase II trial in NSCLC of bemcentinib with TARCEVA (erlotinib)



Bemcentinib + docetaxel in NSCLC

Docetaxel is standard second line chemo in NSCLC patients. Response rates in this disease setting are typically 7-10%.

The BGBIL005 trial is designed to investigate

- ✓ safety and tolerability

and test the hypothesis of whether AXL inhibition can

- ✓ enhance responses to chemotherapy

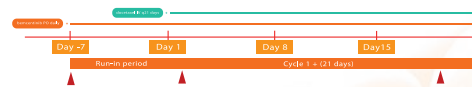
when given in combination with docetaxel in previously treated (last line) NSCLC patients

Stage IV NSCLC
• up to 3 lines of prior therapy (at least one platinum based doublet)
• measurable disease
n=30

Dose escalation 3+3
• bemcentinib
• docetaxel

RP2D

Expansion phase



Sponsor Investigator: Dr David Gerber, UTSW Dallas

"While it is still early, to date 3 of 7 evaluable cases have demonstrated radiographic partial responses, which we cautiously hope may represent a real improvement over the 7-10% response rate seen with docetaxel chemotherapy in this disease setting"

BGBIL005: Interim clinical data Phase I/II trial in NSCLC of bemcentinib with docetaxel

Best response on study

P1	D10	D09	D07	D06	D05	D11	D02	D08	D04
Lead Investment	51 (person)	PerkinsJournals	PerkinsJournals	CarpenterJournals	Neukron	Benetoni	Nicknab	Neukron	PerkinsJournals
Best response to best fit	BD	PD	PD	PD	PD	PD	BD	BD	PD
Best response to study	PD	PD	PD	BD	BD	PR	BD	PR	PR

1 Gilbane ART 2015; 2 Reichl Hep. 2015; 3 Gilbault ChemMed 2017; 4 Zhu AJTR 2016; 5 Barcena J. Hep 2015

Vehicle **CCL₄**

Integrated optical density

Group	Integrated optical density (approx.)
CCL ₄	1.0
RESVERATROL	1.0
RESVERATROL+CCL ₄	2.8*

*P < 0.05 vs. CCL₄ group