

# BerGenBio

## Q3 2021 REPORT, HIGHLIGHTS AND FINANCIALS

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16<sup>th</sup> November 2021

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# AGENDA

1. Q3 and Recent Highlights
2. AXL inhibitors
3. Bemcentinib
  - Acute Myeloid Leukaemia (AML)
  - Non-Small Cell Lung Cancer (NSCLC)
  - COVID-19
4. Tilvestamab
5. Finance Report
6. 2021 Highlights & Outlook

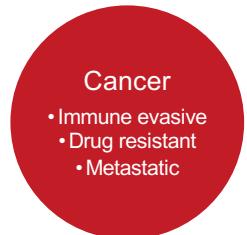
## Q3 and recent highlights

- Post-period end, NSCLC data presented at SITC, highlighting bemcentinib's potential in NSCLC patients harbouring STK11 mutations
- AML data presented at EHA indicate bemcentinib/LDAC combination is active and well tolerated in relapsed elderly AML patients unfit for intensive chemotherapy
- COVID-19 data in late-breaking abstract presentation at ECCMID demonstrate encouraging evidence for effect of bemcentinib in hospitalised patients receiving steroids  $\pm$  remdesivir

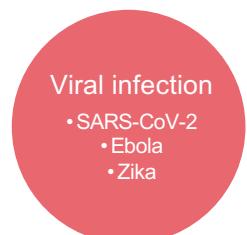
# AXL mediates aggressive disease

Very low expression under healthy physiological conditions

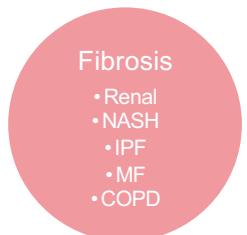
AXL signaling is upregulated by hostile cellular microenvironment and viral infection



Elevated AXL signaling strongly associated with cancer progression, immune evasion, drug resistance and metastasis



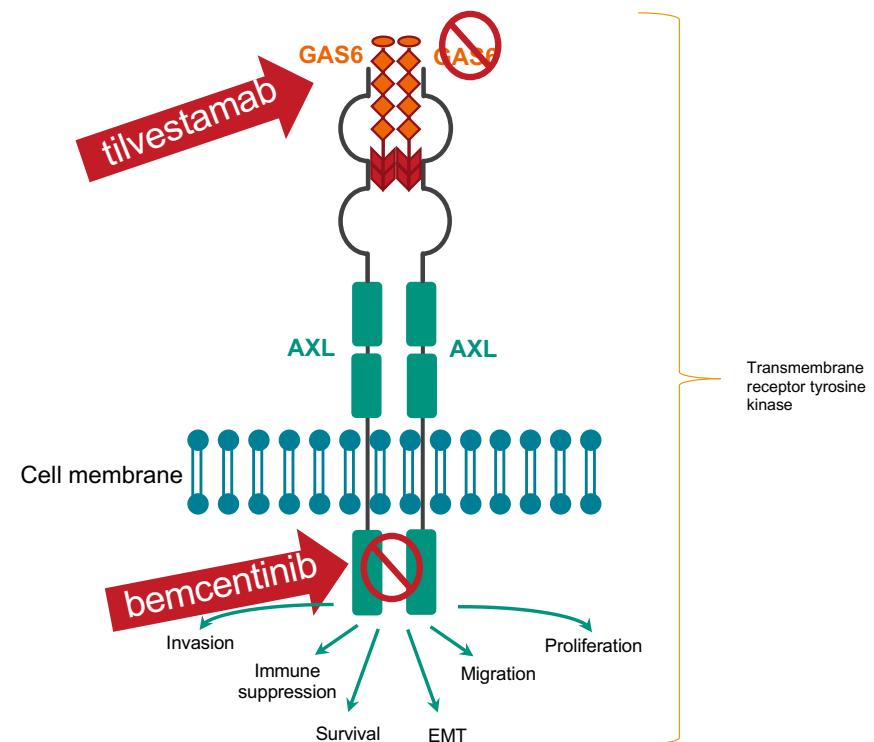
AXL mediates viral entry to cells and dampening of viral immune response



Axl regulates cellular plasticity implicated in fibrotic pathologies e.g., EMT, EndMT, Macrophage polarity

# First-in-class selective AXL inhibitors

Bemcentinib & Tilvestamab block AXL signaling



# Two first-in-class, potent, highly selective AXL inhibitors in clinical development

## Bemcentinib\*



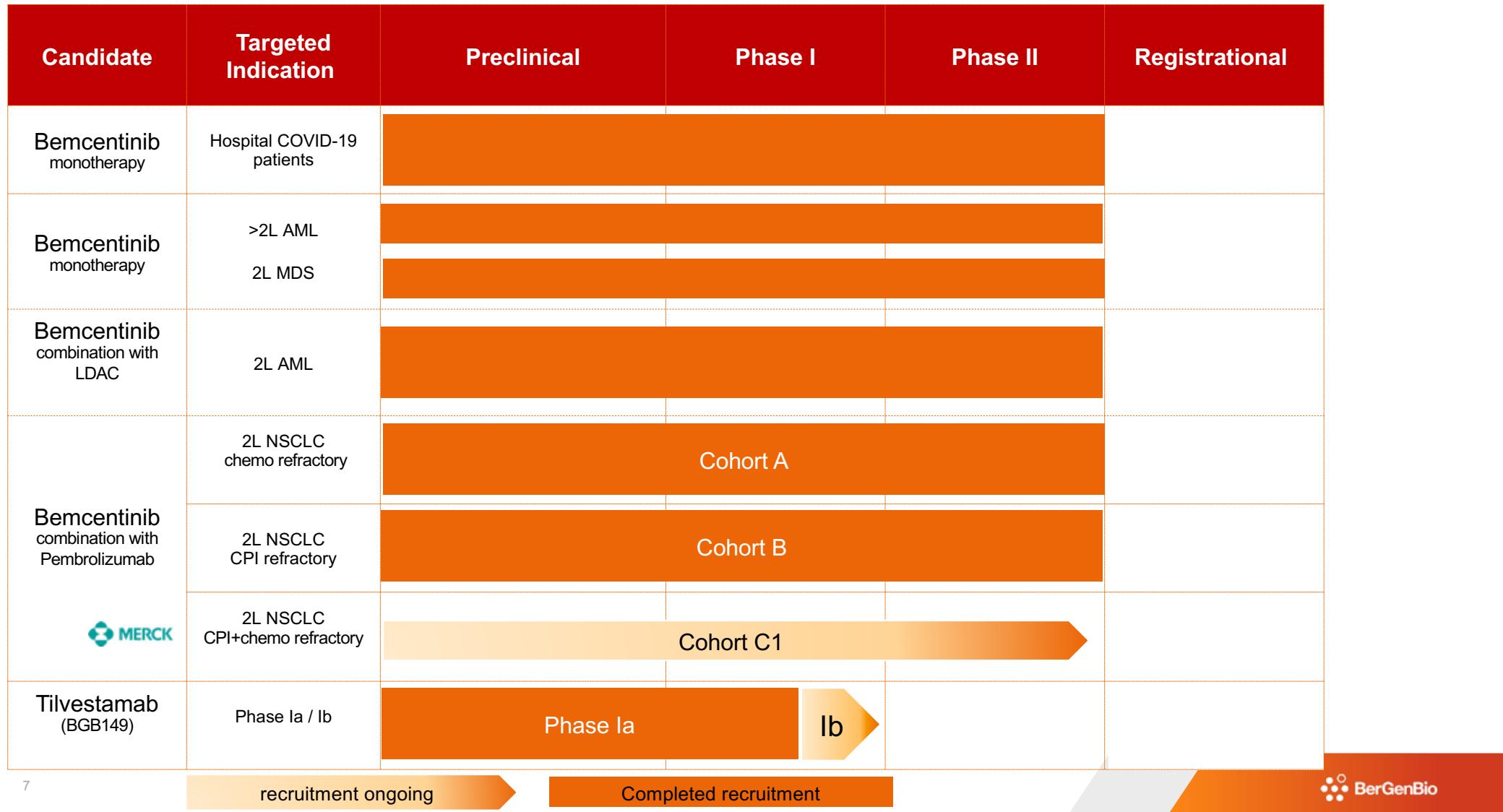
- Oral, once a day
- Size 0 capsule
- Favorable benefit:risk profile
- Combines well with other drugs
- In Phase II (AML/MDS, NSCLC and COVID)

## Tilvestamab\*\*



- Fully humanized mAb – displaces GAS6
- Phase Ia complete
  - No DLTs, dose proportionate PK-PD
- In Phase Ib/IIa
  - Serial biopsies to confirm PK-PD

# Pipeline of sponsored clinical trials



# Bemcentinib in Acute Myeloid Leukaemia (AML)

- Despite several recent treatment approvals – 2L relapsed & refractory represents a high unmet need
- Encouraging early data (BGBC003 trial now fully enrolled) in relapsed patients unfit for intensive chemotherapy
- FDA granted Orphan Drug Designation and Fast Track
- Next step is a confirmatory randomized placebo-controlled trial in relapsed 2L AML (H2 2022)

# Despite recent drug launches – high unmet medical need remains, particularly for patients progressing after 1L therapy

## AML 8MM incidence ~72k 2019

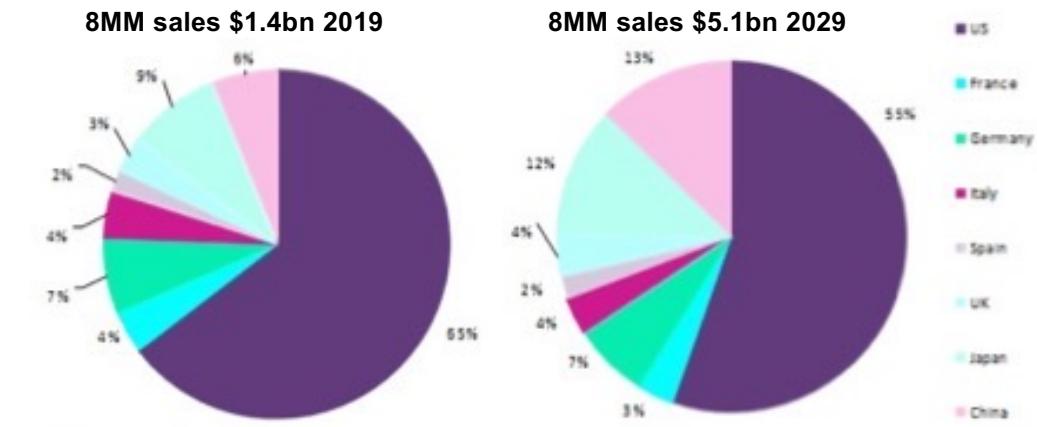
- Older population disease- >80% patients over 60
- Management dictated by suitability for intensive therapy
- Improved remission rates with new therapies have not translated to an increase in long-term survival in AML
  - 5-year OS: 28.3% all ages, 13.5% >65 and 3.4% >75

## Bemcentinib opportunity in highest unmet need indication:

- Patients (all ages) who are relapsed or are refractory to previous treatments - limited market competition

## AML 8MM sales \$1.4bn 2019 rising to \$ 5.1bn 2029

- US 65% of global sales
- Adoption of new premium priced novel therapies, particularly Venclexta® will drive significant sales growth

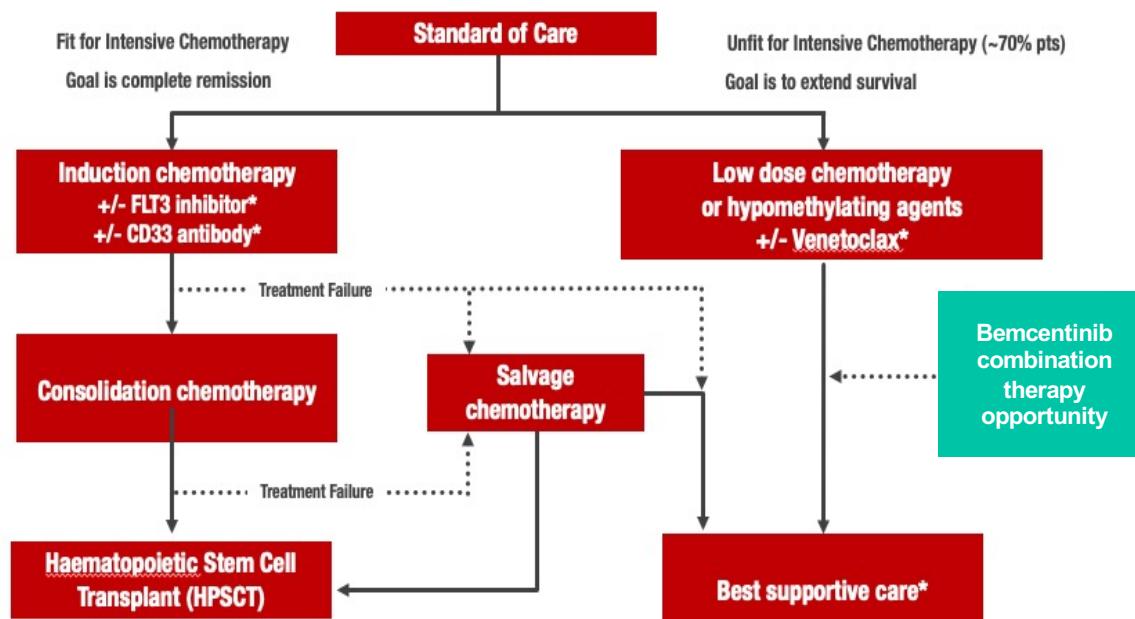


# Current treatment landscape and unmet medical need in AML

## R/R patients unfit to receive intensive chemotherapy – poor outcome...

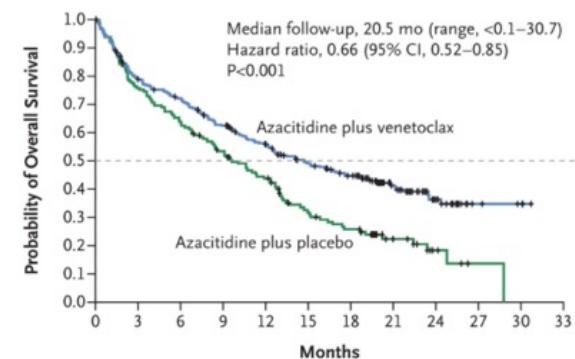
26,700 new AML diagnoses in pts unfit for IC/year across US, 5EU, Japan, China with 22,300 pts reaching 2L and 3L treatment

### Acute Myeloid Leukaemia: Standard of Care & Bemcentinib Positioning



### First Line Treatment

- Evolved to include **venetoclax in combination with HMA** (preferred) or LDAC +/- Venetoclax or Glasdegib
- CR/CRI 65% rate and mOS of 14.7mo<sup>1</sup>**
- Relapsed patients mOS 4.7mo<sup>2</sup>**



1. VIALE-A NCT02993523

2.2 Leukemia Research Volume 90, March 2020, 106314

## Phase I/II study in elderly AML patients unfit for intensive chemo and transplant

Phase 1 n=36  
Single agent bemcentinib dose-finding in r/r AML/MDS

Established safety and recommended Phase 2 dose

Translational research confirmed immuno-therapy mechanism of action



### Phase 2 Expansion Cohorts

Cohort B1 n=14  
Monotherapy AML

Cohort B2 n=16  
Combination with LDAC in newly diagnosed or relapsed AML

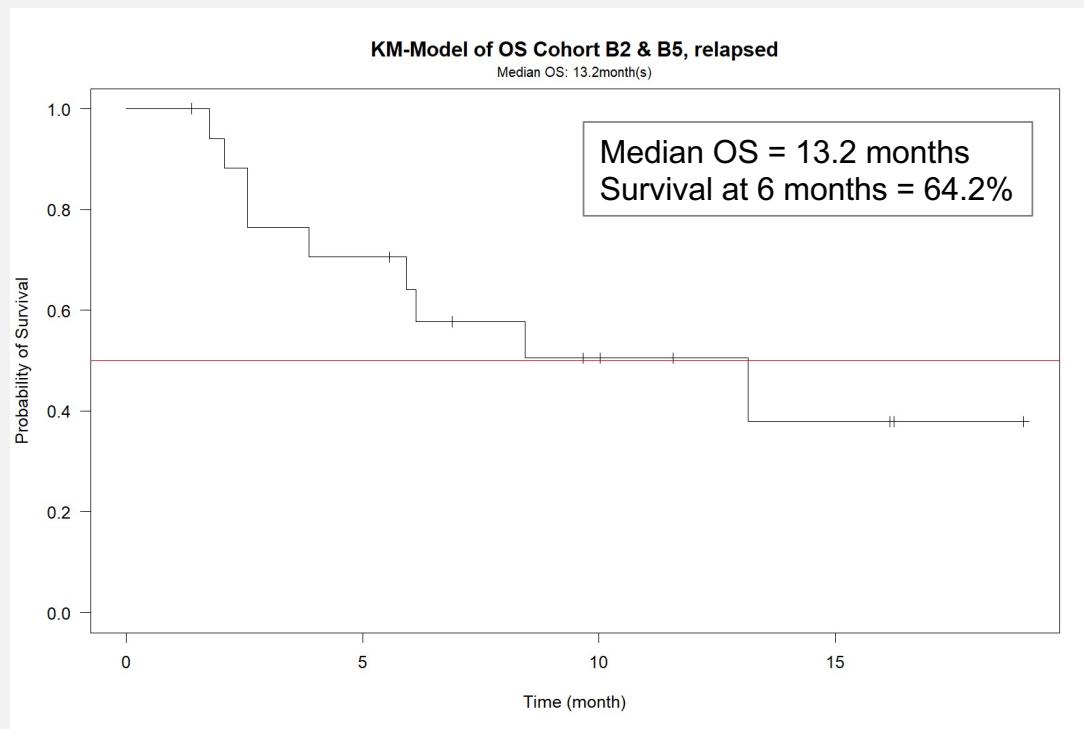
Cohort B3 n=14  
Combination with decitabine in ND or relapsed AML

Cohort B4 n=14  
Monotherapy MDS

Cohort B5 expansion  
Combination with LDAC relapsed AML (ongoing)

LDAC = Low Dose Cytarabine  
AML = Acute Myeloid Leukaemia  
MDS = Myelodysplastic syndromes

# Combination of bemcentinib and LDAC (cohort B2 & B5) shows encouraging non-matured median overall survival benefits in relapsed patients

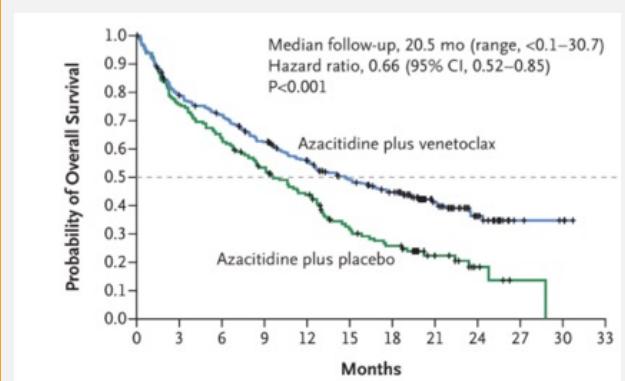


Cut off as of 28<sup>th</sup> Oct 2021

Relapsed only n=18 patients (9 censored and 9 dead)

## First Line Treatment

- Evolved to include **venetoclax in combination with HMA** (preferred) or LDAC +/- Venetoclax or Glasdegib
- **CR/CRi 65% rate and mOS of 14.7mo<sup>1</sup>**
- Relapsed patients **mOS 4.7mo<sup>2</sup>**



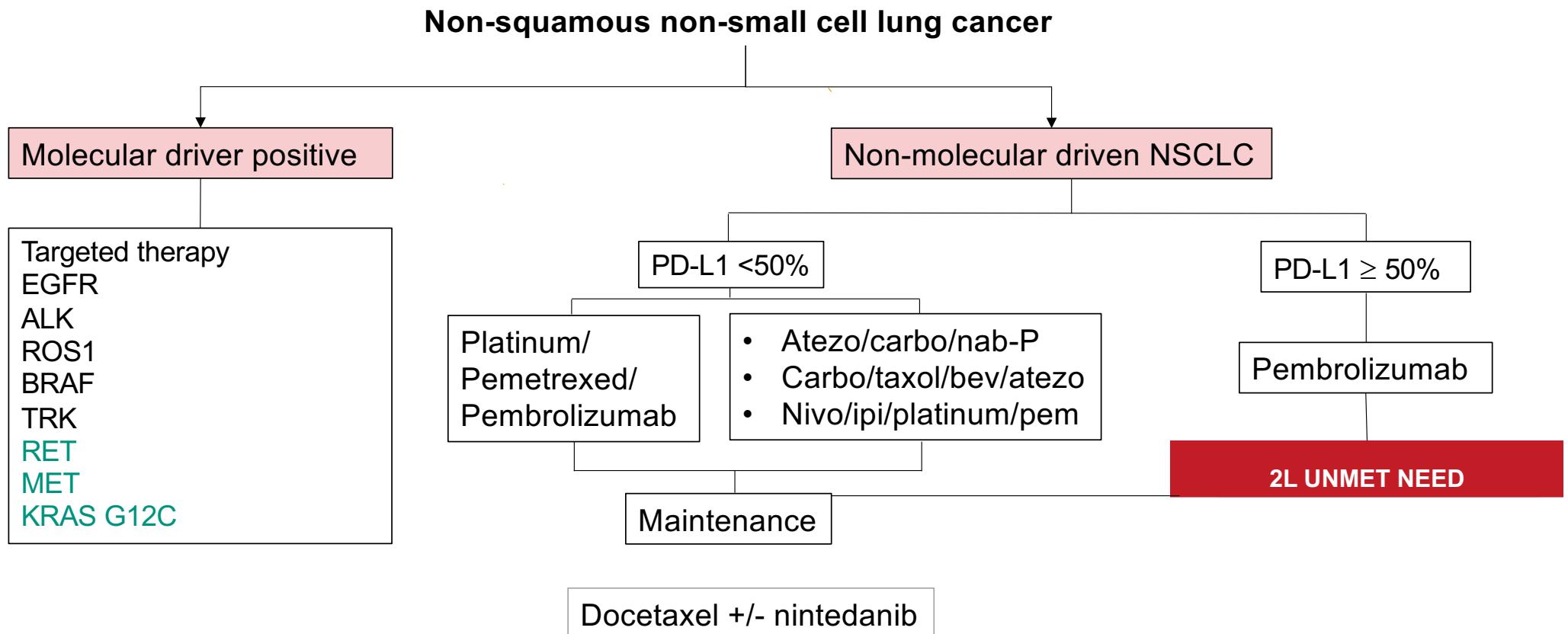
## Summary of bemcentinib in AML and next steps

- High unmet medical need in relapsed and refractory 2L AML
- Bemcentinib mediates an anti-AML immune response through activation of NK and T cells
- Bemcentinib is well tolerated (mono- and combination) and accumulates in bone marrow tissue
- Encouraging non-matured mOS benefits in relapsed 2L AML patients unfit for intensive chemotherapy
- Granted Orphan Drug Designation and Fast Track by US FDA in 2L AML (patients unfit for intensive chemotherapy)
- Next step is the conduct of a confirmatory randomized and placebo-controlled trial (H2 2022)

# Bemcentinib in NSCLC

- Largest oncology indication – rapidly evolving treatment landscape – unmet needs remains high
- NSCLC is composed of several mutational drivers and not just “one disease”
- BGBC008 Cohort B2 is now fully enrolled data expected in H1 2022
- STK11 mutations occurs in up to 20% of 1L NSCLC – and is reported to be a poor prognostic factor
- Bemcentinib reverses anti-PD-1/PD-L1 blockade in STK11 mutations and encouraging data from BGBC008 suggest clinical benefit in STK11 mutated patients
- Securing valuable rights through acquiring exclusive license relevant to STK11 mutations
- FDA granted Orphan Drug Designation and Fast Track
- Next step is a Phase 1b trial in 1L STK11 mutant patients (H1 2022)

# Treatment landscape for NSCLC



# BGBC008 trial: 2L NSCLC Study with bemcentinib + pembrolizumab

## Cohort A

- Previously treated with a platinum containing chemotherapy
- CPI-naïve
- Has PD at screening

## Interim Analysis

Stage 1 N=22 patients

## Final Analysis COMPLETE

Total N=48 patients

## Cohort B

- Previously treated with a mono therapy PD-L1 or PD-1 inhibitor
- Must have had disease control on most recent treatment
- Has PD at screening

## Interim Analysis

Stage 1 N=16 patients

## Recruitment Complete

Total N=29 patients

## Cohort C

- Previously treated 1<sup>st</sup> line with a combination of checkpoint inhibitor + platinum-containing chemotherapy
- Must have had disease control on 1<sup>st</sup> line therapy
- Has PD at screening

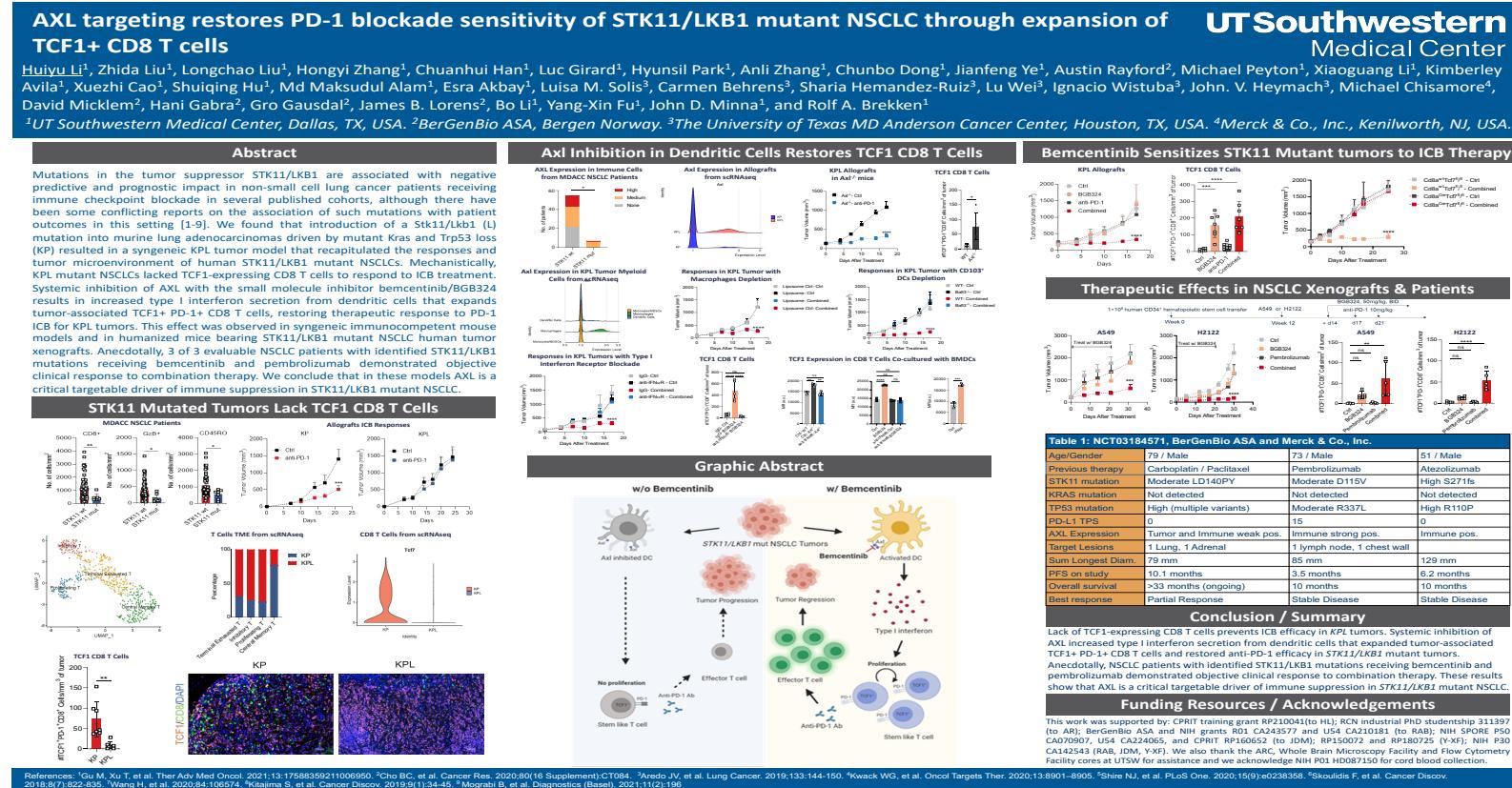
## Interim Analysis

Stage 1 N=13 patients

## Pending

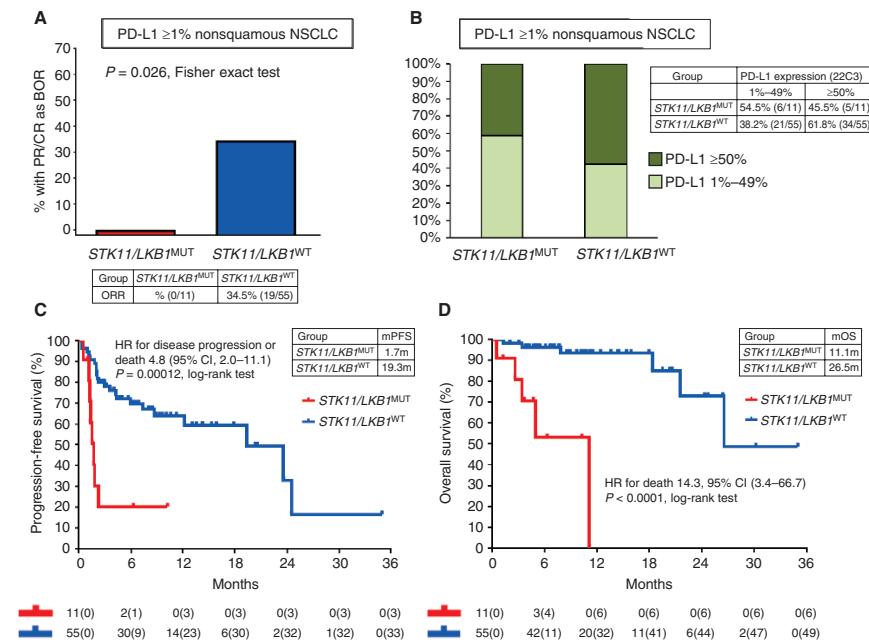
Total N=29 patients

# Pre-clinical data indicate bemcentinib restores PD-1 blockade sensitivity of STK11/LKB1 mutant NSCLC through expansion of TCF1+ CD8 T cells....



## ...and clinical evidence suggests that STK11/LKB1 mutations are associated with shorter mPFS and mOS with PD-1/PD-L1 blockade and reduced response....

- 66 NSCLC pts treated with nivolumab **0/11** STK11-mutant pts responded (Skoulidis *et al* 2018)
- 75 NSCLC pts treated with ipi-nivo **0/7** STK11-mutant pts responded (Hellman *et al* 2018)
- 161 NSCLC pts treated with durvalumab **1/21** STK11-mutant pts responded (Kunkel *et al* 2018)
- 97 NSCLC patients treated with durvalumab + tremelimumab **1/23** STK11 mutant pts responded (Kunkel *et al* 2018)
- **Overall response rate in CPI treated STK11 mutant patients (without chemotherapy) 3% (2/62)**

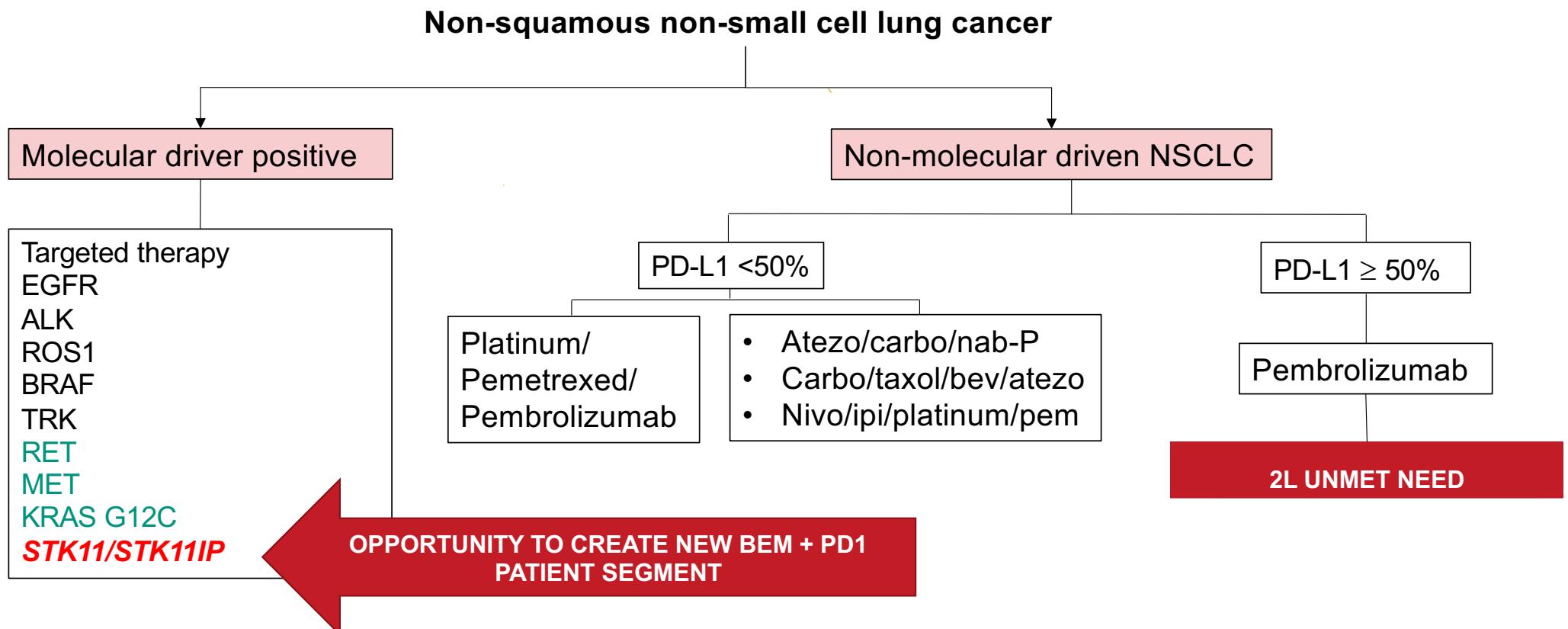


## **There is also evidence to suggest that STK11 mutations do not benefit from pembrolizumab + platinum doublet chemotherapy (CP) in NSCLC**

- 377 NSCLC pts treated with pembrolizumab + platinum doublet chemotherapy (CP)
- Comparing STK11 mutation patients (N=102) with STK11-wt patients (N=275): patients had significantly reduced :
  - ORR (32.6 vs 44.7%),
  - mPFS (4.8 vs 7.3mo)
  - mOS (10.6 vs 16.7mo)

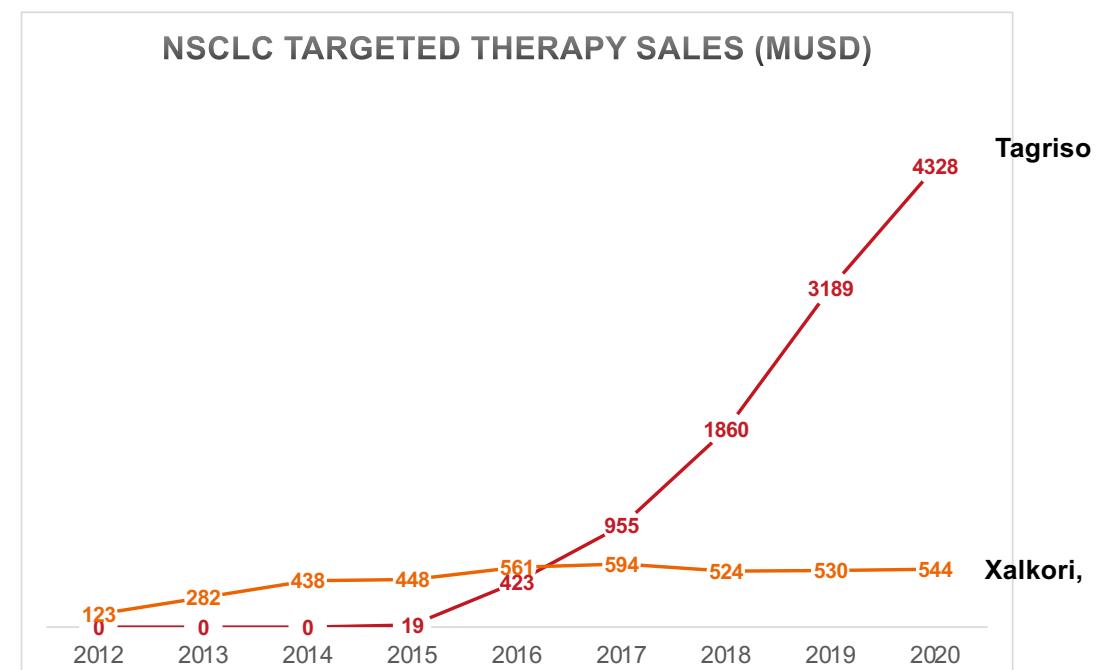
**For STK11m patients, addition of pembrolizumab to platinum doublet chemotherapy did not improve mPFS (4.8 vs 4.3mo) or mOS (10.6 vs 10.3mo) vs chemotherapy alone**

# Treatment landscape for NSCLC



## Opportunity in 1L NSCLC is large for targeted therapies including potentially STK11 mutation

- STK11 mutation is present in *up to* 20% of NSCLC
- Tagriso targeting EGFR mutation (ca 15-20% of NSCLC) generates ca \$4.3B in sales
- Xalkori targeting ALK mutation (ca 5% of NSCLC) generates ca \$544M in sales



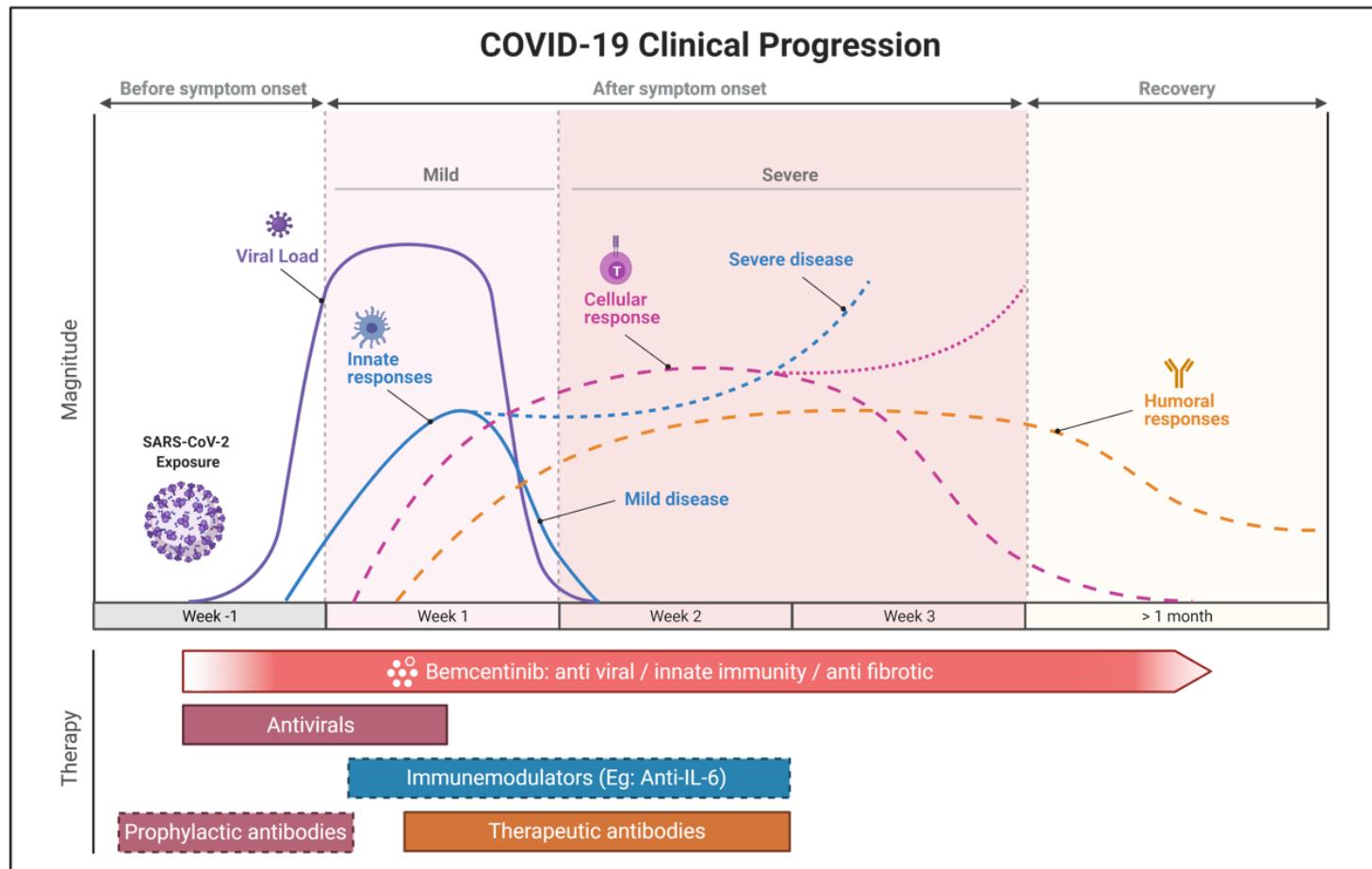
## Summary of bemcentinib in NSCLC and next steps

- Unmet medical need in 2L (non-molecular) and 1L (molecular)
- Data from BGBC008 in 2L not yet matured – expected in H1 2022
- Bemcentinib expand TFC1+ and CD8 T cells and potentially restores PD1-blockade sensitivity of STK11 mutations combined with encouraging clinical benefit in STK11 mutated patients from BGBC008 trial (3 out of 3 evaluable patients)
- 1L STK11 NSCLC represents a significant opportunity for bemcentinib in combination with anti-PD-1/PDL-1 therapies
- Granted Orphan Drug Designation and 2X Fast Track by US FDA in NSCLC for nonactionable mutations
- Next step is (i) data analysis on BGBC008 trial and (ii) and commence a Phase 1b trial in 1L NSCLC STK11 mutated patients (H1 2022)

## BEMCENTINIB IN COVID-19

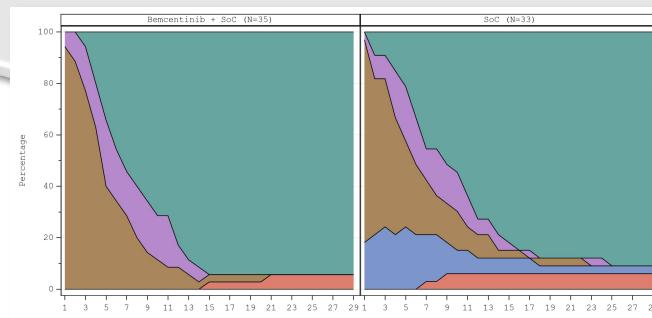
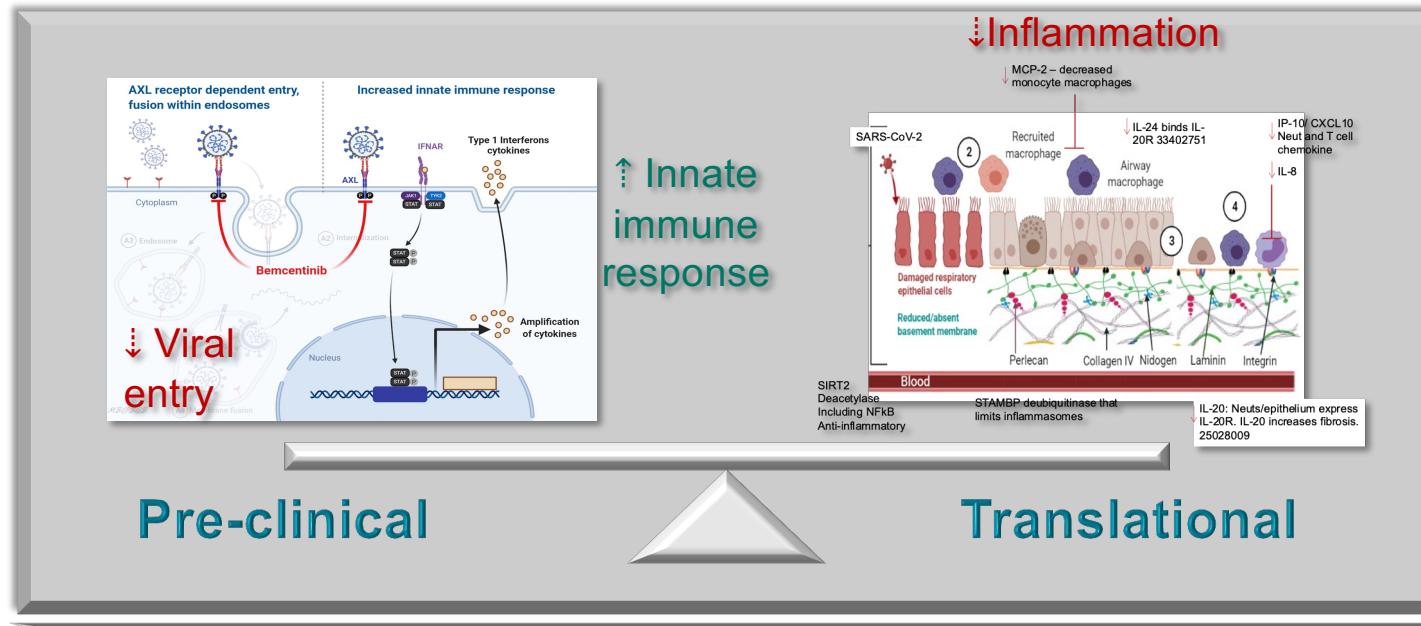
- Despite rapidly evolving landscape the unmet medical need for hospitalised patients requiring oxygen remains
- Bemcentinib's modulatory effect (immune system, inflammation, viral entry) provides strong rationale in respiratory infections like COVID-19
- Clinical data (in 179 patients) validate potential role of bemcentinib for hospitalised patients
- Next step is a confirmatory randomized placebo-controlled trial conducted through a sponsored platform at significant reduced cost

# Clinical progression – COVID-19



# AXL inhibition with bemcentinib

## multiple mechanisms responsible for clinical efficacy in severe COVID19



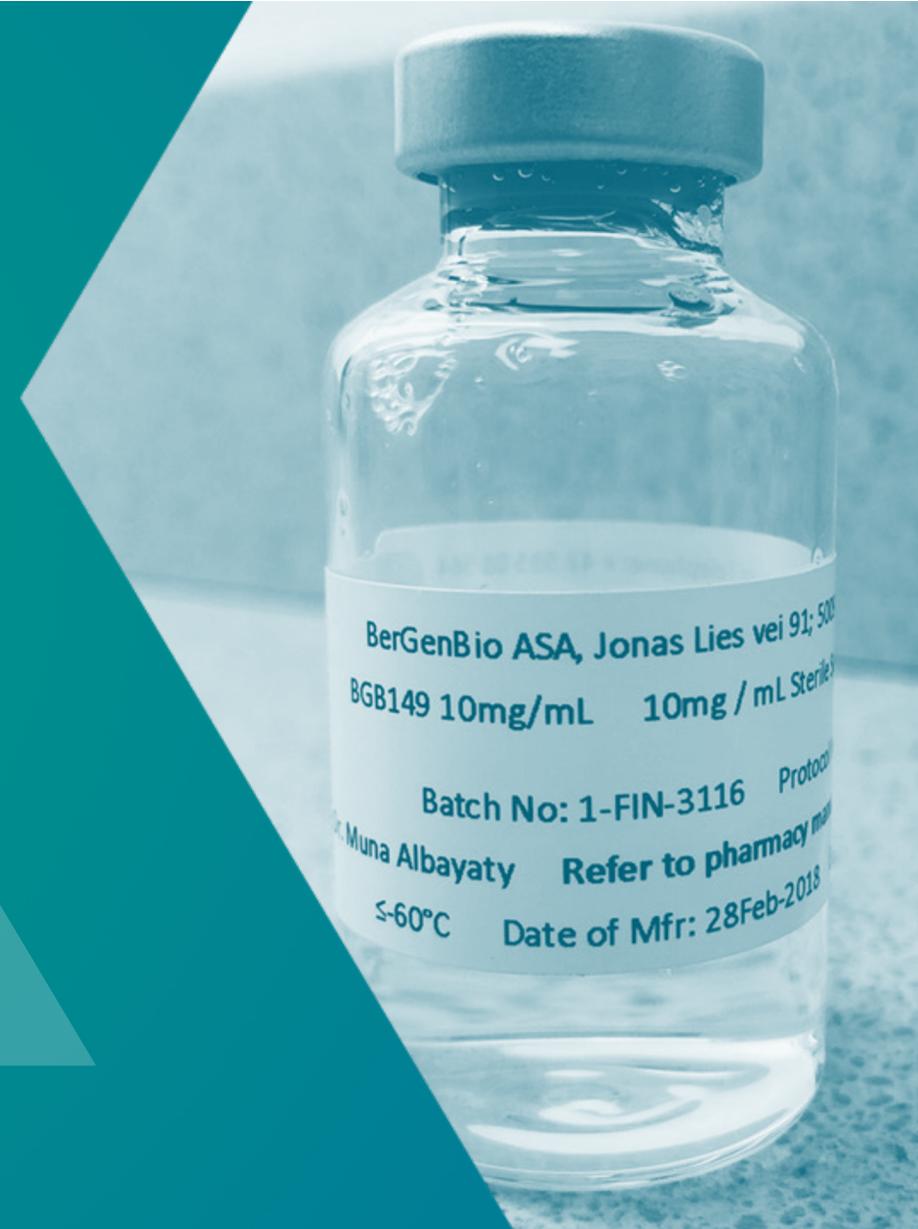
**Clinical**

## Summary of bemcentinib in COVID-19 and next steps

- Despite recent approvals a high unmet medical remains in the prevention of hospitalised patients requiring oxygen progressing to ventilation
- Strong scientific and clinical rationale for utility of bemcentinib is severe respiratory infections including COVID-19
- Next step is a confirmatory randomized placebo-controlled trial utilising sponsored platform setup allowing BGB to confirm encouraging clinical data at significantly reduced cost (H1 2022)



# Tilvestamab (BGB149) anti-AXL monoclonal antibody



# TILVESTAMAB: Anti-AXL monoclonal antibody



Functional blocking fully-humanised IgG1 monoclonal antibody

Binds human AXL, blocks AXL signalling

High affinity (KD: 500pM), displaces GAS6  
Anti-tumour efficacy demonstrated *in vivo*

Robust manufacturing process established,  
18 months stability

Phase Ia healthy volunteer SAD study complete

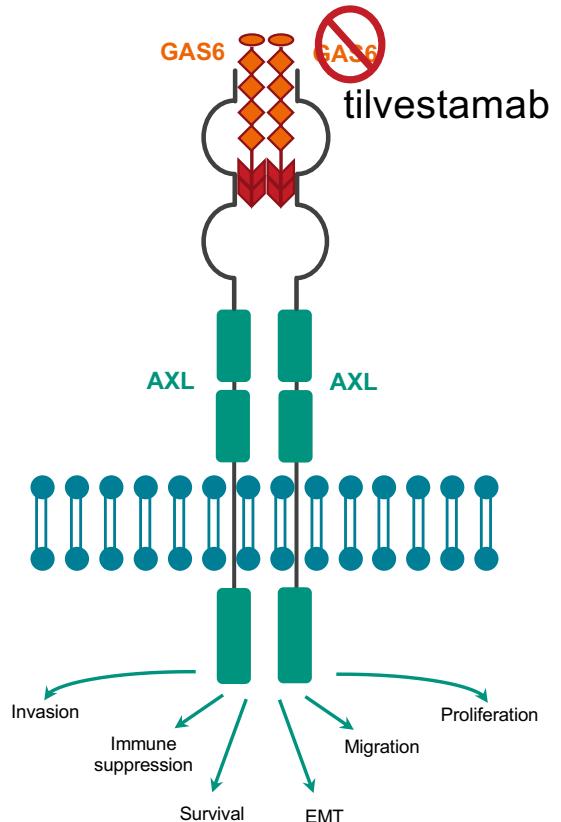
**Safety** – no dose limiting toxicity seen up to 3mg/kg dose

**Pharmacokinetics** - exposure predictable with dose

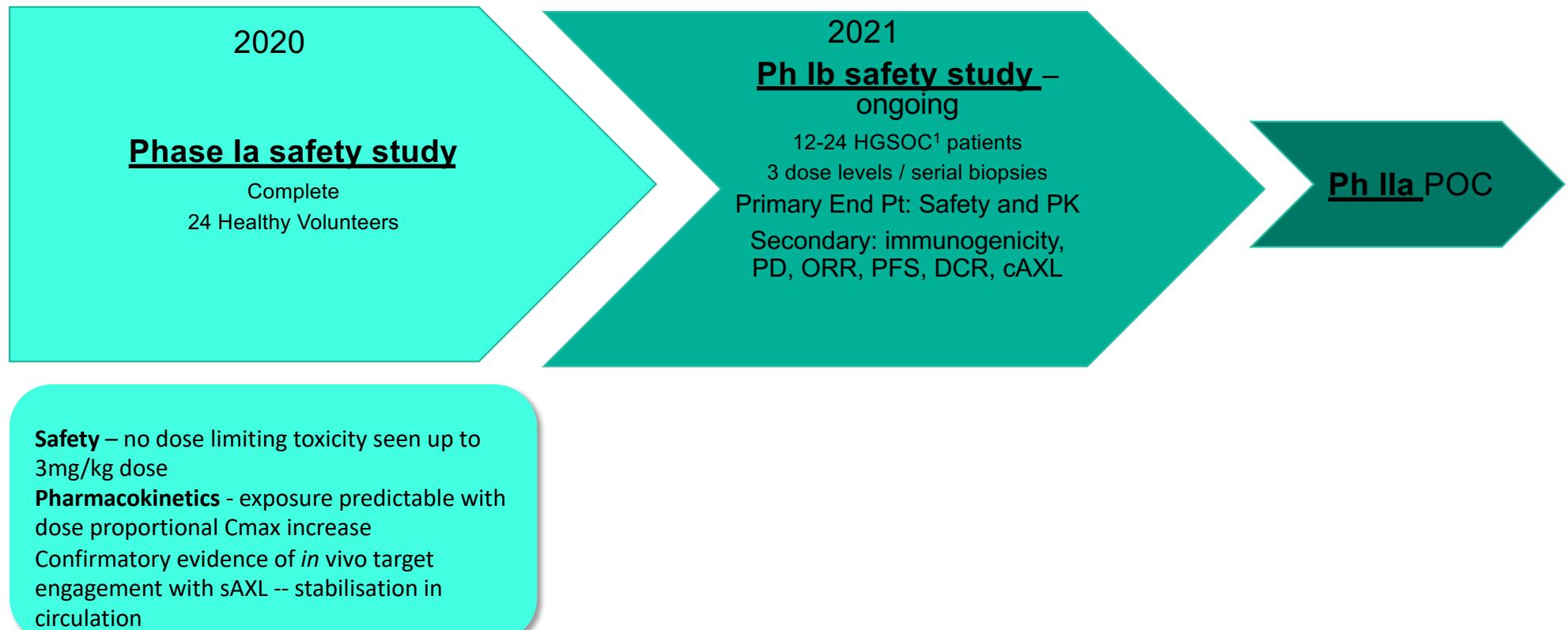
proportional Cmax increase

Confirmatory evidence of *in vivo* target engagement with sAXL  
-- stabilisation in circulation

Phase I SAD trial complete  
Phase Ib/Ila MAD ongoing



# Tilvestamab development plan



## Summary of tilvestamab and next steps

- Phase 1b on track – 5mg/kg with no DLT's
- Biopsies to be evaluated for clinical response
- Next step is continued pre-clinical evaluation and completion of on-going Phase 1b trial

# Finance Report – Key Financial Q3 2021

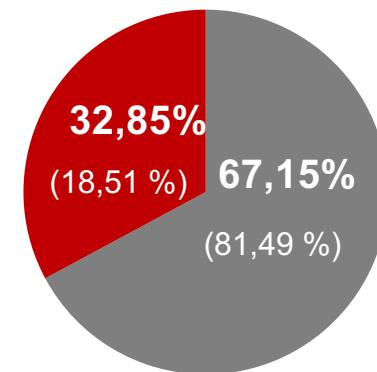
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# Key financial figures

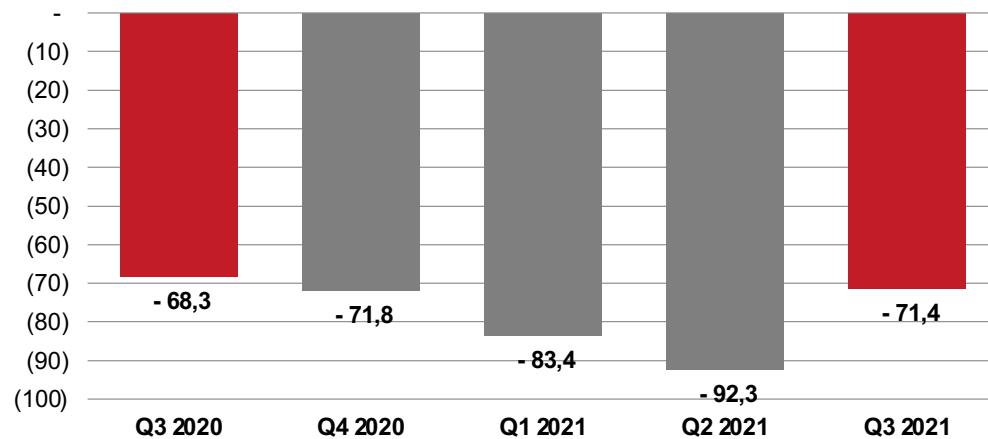
(NOK million)	Q3 2021	Q3 2020	YTD 2021	YTD 2020	FY 2020
Operating revenues	0,0	0,0	0,0	0,0	0,6
Operating expenses	71,4	68,3	247,1	189,3	261,7
Operating profit (-loss)	-71,4	-68,3	-247,1	-189,3	-261,1
Profit (-loss) after tax	-70,5	-67,3	-240,6	-183,2	-257,0
Basic and diluted earnings (loss) per share (NOK)	-0,80	-0,77	-2,74	-2,51	-3,43
Net cash flow in the period	-61,7	-49,4	-208,2	521,8	468,8
Cash position end of period	509,4	777,9	509,4	777,9	721,6

Operating expenses Q3 2021 (YTD 2021)



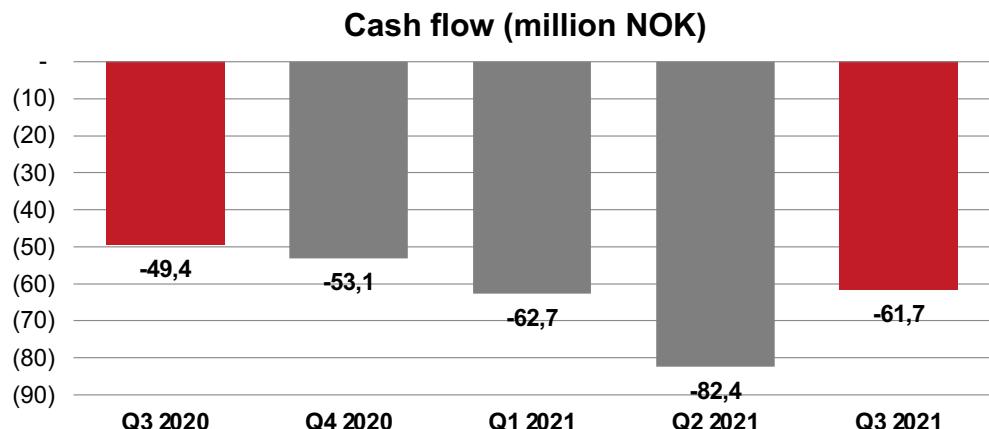
■ R&D ■ Administration

Operating loss (million NOK)



- Operating cost decreased to an average level after peak patient recruitment in Q1-Q2, mostly related to COVID-19 clinical trial.
- Organisational development continuing with increased headcount compared to Q3 2020.
- Well managed overhead costs. 67 % of operating expenses in Q3 2021 (YTD 81%) is attributable to Research & Development activities. Decrease in the quarter is related to complete recruitment of several clinical trials in 2021 and decreased program cost in addition to one-time cost due to management change.

# Cash flow and cash position

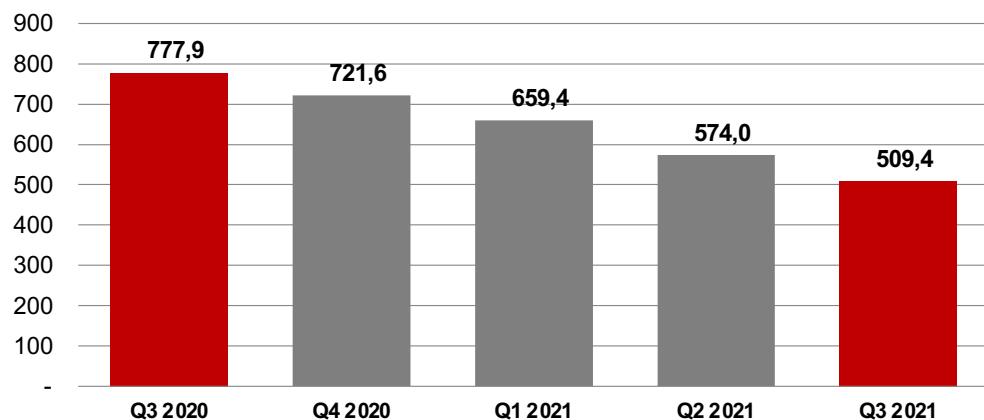


Cash burn operating activities Q3 2021

**67.2 / 7.7**

**NOK million / USD million**

**Cash position (million NOK)**



Cash position Q3 2021

**509.4 / 58.0**

**NOK million / USD million**

# Analyst coverage

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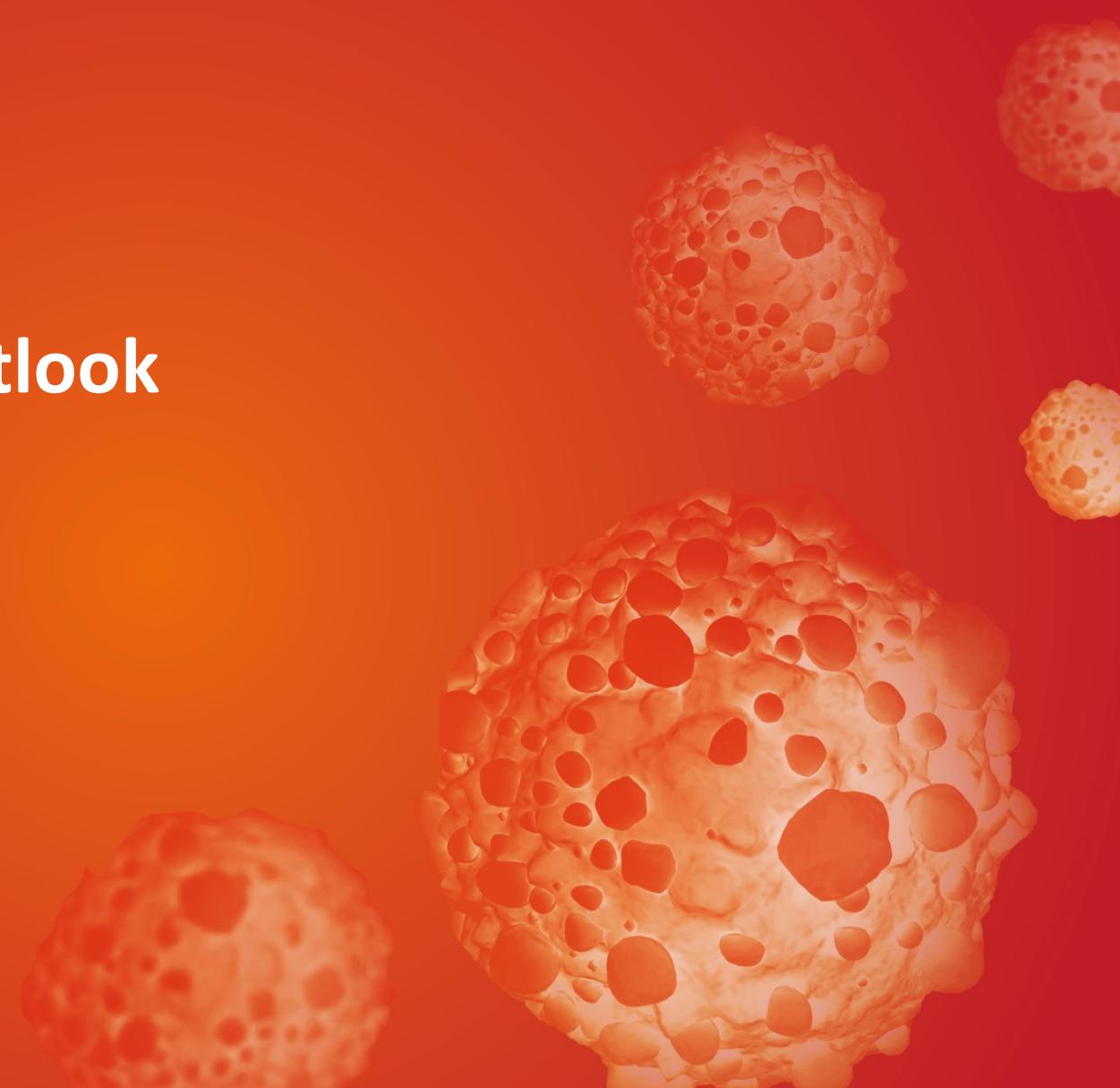


## Financial Calendar 2021

**16 November 2021: Quarterly Report Q3 2021**

**16 February 2022: Quarterly Report Q4 2021**

# 2021 Highlights & outlook



# Positioning BerGenBio for success

## AML

- Encouraging early data in relapsed 2L AML patients with high unmet medical need
- Orphan Drug Designation and Fast Track by US FDA
- Position for confirmatory randomized placebo-controlled trial in H2 2022

## NSCLC

- Phase II trial (BGB008) cohort B now fully enrolled – data to mature in H1 2022
- Identified large 1L line opportunity – STK11 mutations
- Orphan Drug Designation and Fast Track by US FDA for STK11
- Position for Phase 1b trial in 1L STK11 mutations in H1 2022

## COVID-19

- Encouraging Phase II data
- Positioned for confirmatory randomized placebo-controlled trial through sponsored platform in H1 2022

# BerGenBio – investment highlights



## Pioneering biology

World leaders in understanding AXL biology, as a mediator of aggressive cancer, fibrosis and viral infections

## Two first in class selective AXL inhibitors

**Bemcentinib** - oral once-a-day capsule

**Tilvestamab** – functionally blocking mAb

## Diversified late stage pipeline

**AML** (Orphan/FT)

**NSCLC** (Orphan/FT)

**COVID-19**

## Potential to unlock significant value

2<sup>nd</sup> line AML

1<sup>st</sup> line NSCLC  
STK11

Hospitalised COVID-19

## Strong balance sheet and fit-for-purpose organisation

Experienced R&D team

Industry & academic partnership and collaborations

AML – Acute Myeloid Leukaemia

MDS – Myelodysplastic Syndrome

NSCLC – Non-Small Cell Lung Cancer

IST – Investigator Sponsored Trial

AXL – Receptor Tyrosine Kinase AXL