

# Company presentation

November 2019

NASDAQ: ASLN  
TPEx: 6497



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# Clinical-stage oncology and immunology focused biopharma with deep pipeline and near-term readouts

Platform leverages Asia clinical centres combined with US/EU centres to accelerate clinical development

*Varlitinib*

Oral, reversible pan-HER inhibitor has shown activity in a range of tumour types with differentiated tolerability profile

**4Q 19** 2<sup>nd</sup> line BTC pivotal topline data

ASLAN003

Oral DHODH inhibitor with the potential to be first-in-class therapy for AML

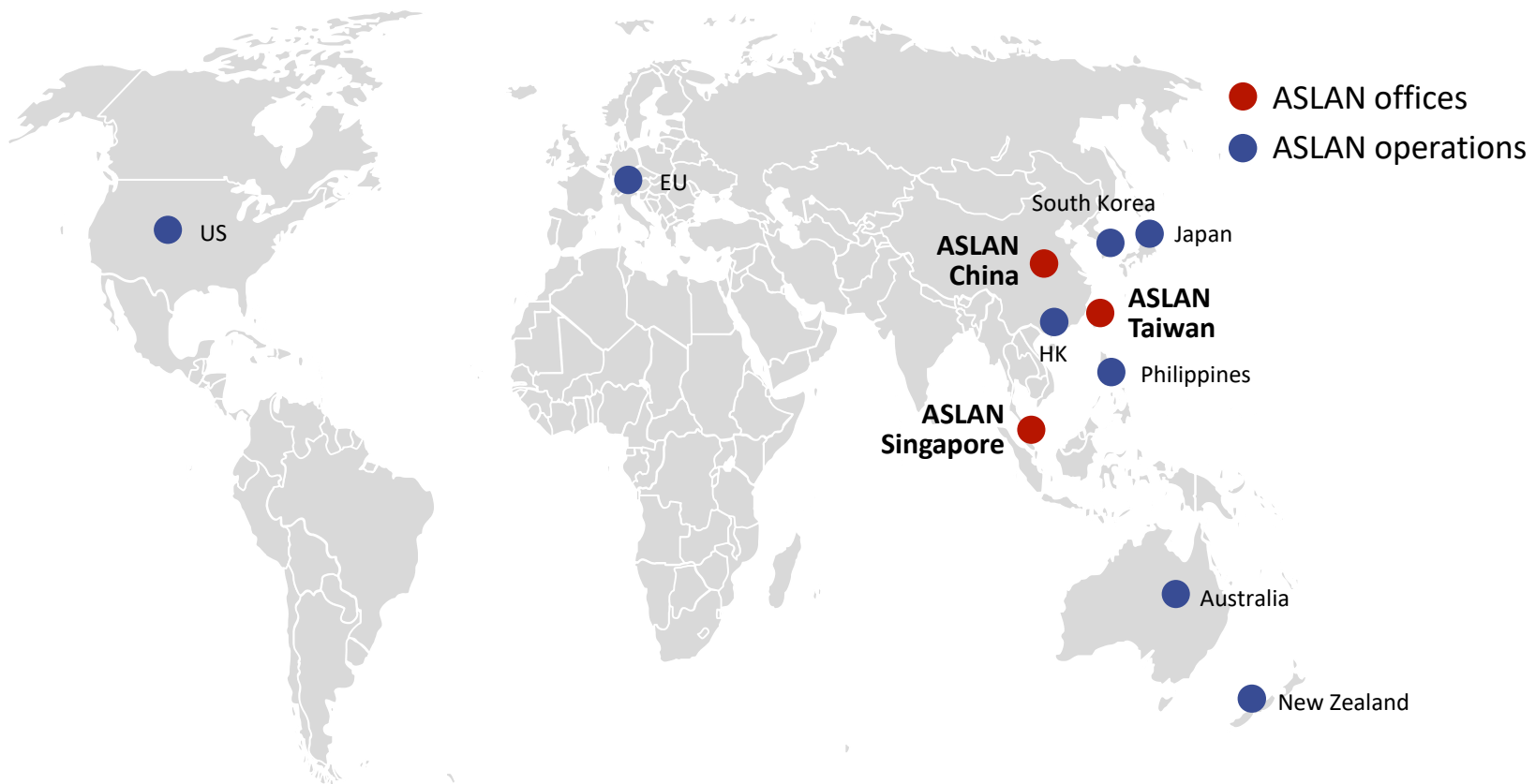
ASLAN004

IL-4R / IL-13R inhibitor with the potential to be best-in-class therapy for atopic dermatitis and asthma

**2H 20** Atopic dermatitis MAD completion



# Headquartered in Singapore with global footprint



- Most clinical trials run in Asia where the majority of patients live
- Data is leveraged to seek approvals in US, EU and other global markets
- Building commercial organisation in China, also planning to build in US



# Asia offers a unique opportunity to accelerate global clinical development

Where the diseases are more prevalent

| Cancer prevalence | US     | Asia-Pac  | Difference in prevalence |
|-------------------|--------|-----------|--------------------------|
| Biliary tract     | 12,601 | 200,968   | 2.8 x                    |
| Gastric           | 32,076 | 1,027,691 | 5.6 x                    |
| Liver             | 27,479 | 422,635   | 2.7 x                    |
| Nasopharyngeal    | 6,072  | 112,790   | 3.2 x                    |

Where there are fewer competing clinical trials

| Trials per M capita | US   | Asia-Pac (ex-JP) | Difference in density |
|---------------------|------|------------------|-----------------------|
| All diseases        | 367  | 18               | 20 x                  |
| AML                 | 5.35 | 0.03             | 167 x                 |
| Atopic dermatitis   | 1.03 | 0.02             | 62 x                  |

- 1 Gastric, liver and nasopharyngeal cancer: as of 2012, based on Globocan (2012); Bray et al (2013), Estimates of global cancer prevalence for 27 sites in the adult population in 2008.
- 2 Biliary tract cancer: as of 2016, based on Edison Investment Research, "Novel treatments for worldwide unmet needs," dated November 8, 2017, surveying Randi et al (2008), Epidemiology of biliary tract cancers: an update; Bridgewater et al (2014), Guidelines for the diagnosis and management of intrahepatic cholangiocarcinoma.
- 3 In this table, Asia-Pac refers to only China, Japan, Philippines, Singapore, South Korea, Thailand and Vietnam.
- 4 Clinical trial density is defined as number of trials per one million population.



# Development pipeline

| Programs   | Discovery  | Preclinical | Phase 1 | Phase 2 | Pivotal | Key milestones         |
|--|--|-------------|---------|---------|---------|------------------------|
| GLOBAL RIGHTS  |  |             |         |         |         |                        |
| <b>Varlitinib</b><br><b>(ASLAN001)</b><br><i>Pan-HER inhibitor</i> | Biliary tract cancer (2 <sup>nd</sup> line)        |             |         |         |         | • Topline data 4Q 19   |
|  | Gastric cancer (2 <sup>nd</sup> line) <sup>1</sup> |             |         |         |         |                        |
|  | Biliary tract cancer (1 <sup>st</sup> line)        |             |         |         |         |                        |
| <b>ASLAN003</b><br><i>DHODH inhibitor</i>                          | AML  |             |         |         |         |                        |
| <b>ASLAN004</b><br>IL-4/IL-13<br><i>Receptor inhibitor</i>         | Atopic dermatitis                                  |             |         |         |         | • MAD completion 2H 20 |
|  | Asthma   |             |         |         |         |                        |

1 Part of the K-MASTER investigator initiated trial



# *Varlitinib* (ASLAN001)



# *Varlitinib* in pivotal studies for BTC – readout in 4Q 2019

## Pan-HER inhibitor

Highly potent, oral, reversible, small molecule with balanced inhibition across all HER family receptors.

## Robust activity

Demonstrated activity in biliary tract, gastric, breast, colorectal cancer. Two phase 2 trials completed, over 600 patients dosed.

## Competitive efficacy

Increase activity over standard of care: 44% ORR in 1<sup>st</sup> line BTC, 60% ORR in 2<sup>nd</sup> line HER2+ and 60% pCR in neoadj breast cancer.

## Differentiated safety

Substantially lower GI tox compared to other pan-HER inhibitors. 1% drug-related grade 3/4 diarrhoea across all studies.

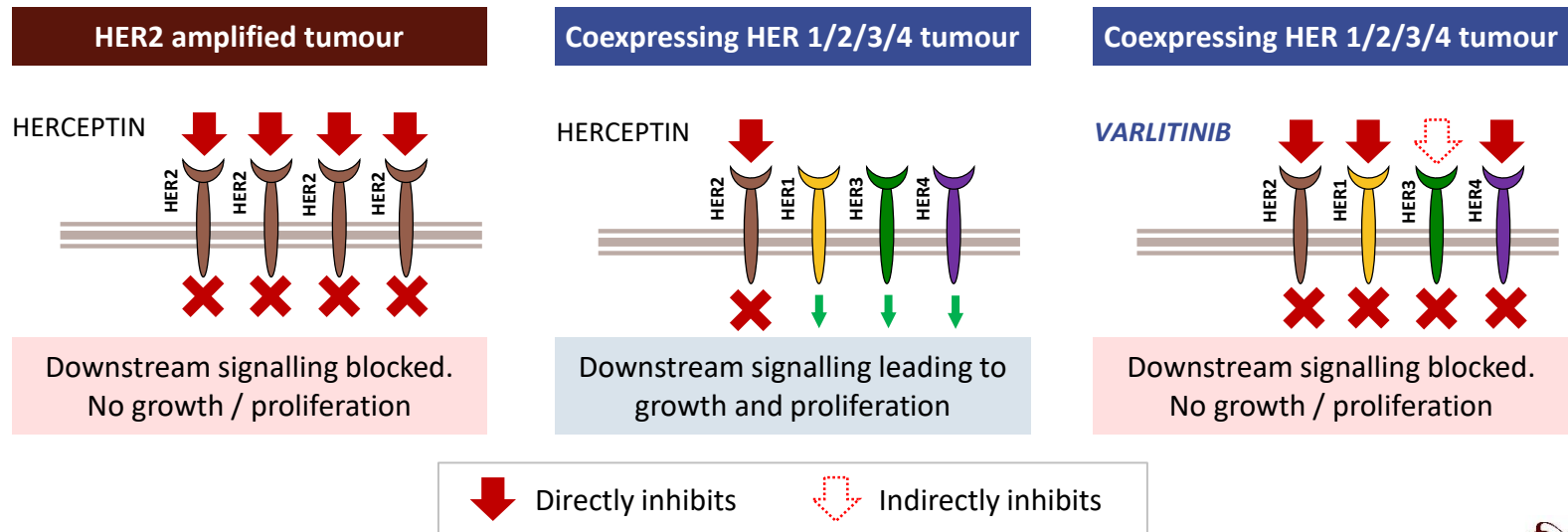
## Focus on subsets of BTC

Only pan-HER being developed in BTC.  
US orphan drug designation obtained from the FDA.



# Mechanism of action

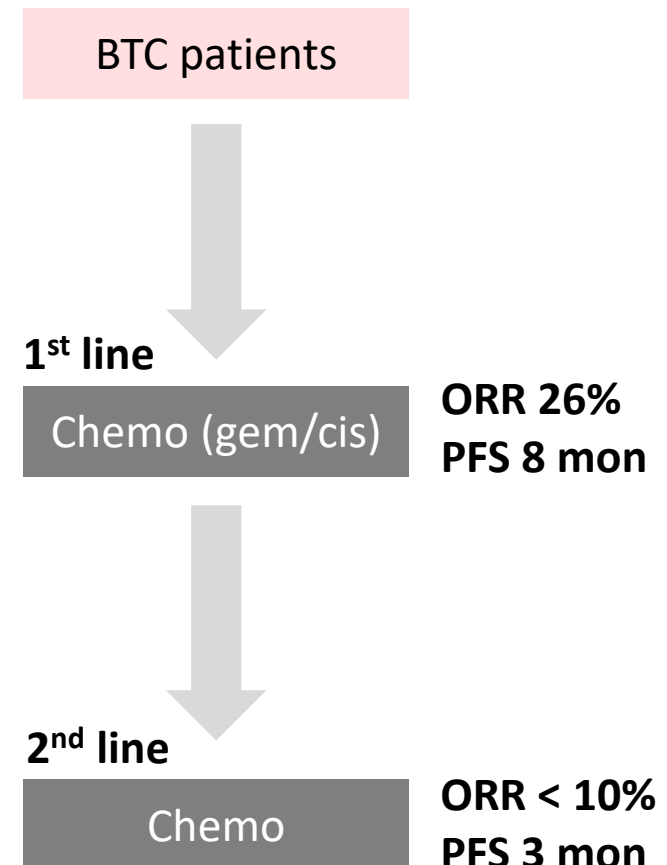
- Targets the HER family of receptors: HER1, HER2, HER3 and HER4
  - Responsible for driving growth in human epithelial cells
- HER-selective drugs such as Herceptin target only one type of HER receptor (HER2)
  - Established efficacy in tumours driven specifically by HER2
  - Blocking just one receptor type is ineffective for many patients
  - These tumours may be driven by a combination of HER1, HER2, HER3 and HER4
- *Varlitinib* has the potential to inhibit growth of a much broader range of tumours



# *Varlitinib* has the potential to be the first targeted therapy for biliary tract cancer

- Often considered as subset of HCC, however drugs approved for HCC are not approved for BTC
- Median OS 12 months
- 5 year survival rate of less than 10%
- No approved targeted therapies
- Several drugs being developed for specific subpopulations: FGFR2 (<10%), IDH1 (10-15%)
- HER-family receptors are broadly expressed in around 70% of BTC

| Region   | Incidence | Incidence rate (per 100k) |
|----------|-----------|---------------------------|
| Asia-Pac | 201,000   | 11.0                      |
| China    | 145,000   | 10.5                      |
| EU5      | 14,000    | 4.2                       |
| US       | 12,600    | 3.9                       |



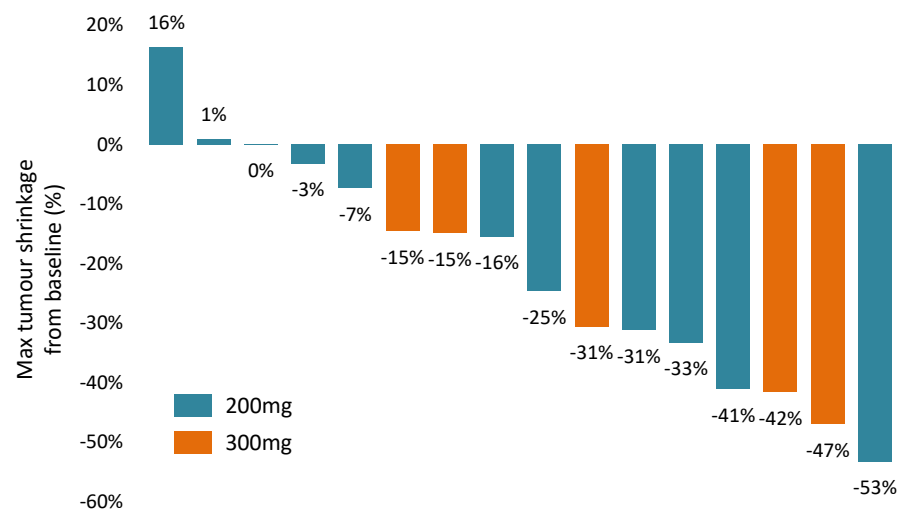
1 Biliary tract cancer incidence: as of 2016, based on Edison Investment Research, "Novel treatments for worldwide unmet needs," dated November 8, 2017, surveying Randi et al (2008), Epidemiology of biliary tract cancers: an update; Bridgewater et al (2014), Guidelines for the diagnosis and management of intrahepatic cholangiocarcinoma.



# Positive phase 1b data in 1<sup>st</sup> line BTC demonstrate increased activity over standard of care

- Phase 1b trial of *varlitinib* in combination with gem/cis in 1<sup>st</sup> line BTC
- 21 patients dosed with 200-300mg *varlitinib* and gem/cis.  
16 patients evaluable for efficacy:
  - 44% ORR overall (60% ORR with 300mg *varlitinib*)
  - 94% DCR overall (100% DCR with 300mg *varlitinib*)
- Data compares favourably with published historical data (ABC-02 trial) which reported 26% ORR and 81% DCR for patients dosed with gem/cis alone

| Population                 | ITT        | Efficacy evaluable |           |         | ABC-02<br>gem/cis |
|----------------------------|------------|--------------------|-----------|---------|-------------------|
|                            |            | All                | 200 mg    | 300 mg  |                   |
| No. of pts                 | 21         | 16                 | 11        | 5       | 161               |
| <b>Response</b>            |            |                    |           |         |                   |
| CR                         | 0          | 0                  | 0         | 0       | 1 (0.6%)          |
| PR                         | 7 (33.3%)  | 7 (43.8%)          | 4 (36.4%) | 3 (60%) | 41 (25.5%)        |
| SD (≥12 wk)                | 10 (47.6%) | 8 (50.0%)          | 6 (54.5%) | 2 (40%) | 89 (55.3%)        |
| SD (<12 wk)                | 2 (9.5%)   | 1 (6.3%)           | 1 (9.1%)  | 0       | 0                 |
| PD                         | 0          | 0                  | 0         | 0       | 30 (18.6%)        |
| NE                         | 2 (9.5%)   | 0                  | 0         | 0       | NA                |
| <b>Efficacy assessment</b> |            |                    |           |         |                   |
| ORR                        | 33.3%      | 43.8%              | 36.4%     | 60%     | 26.1%             |
| DCR                        | 81.0%      | 93.8%              | 90.9%     | 100%    | 81.4%             |



# Promising signs of efficacy in a difficult to treat cancer even in pretreated patients

- Pooled analysis of three phase 1b trials of *varlitinib*
- 43 BTC patients treated with *varlitinib* and platinum-based doublet chemo followed by *varlitinib* monotherapy
- 27 patients evaluable for efficacy, 33% ORR, 81% DCR

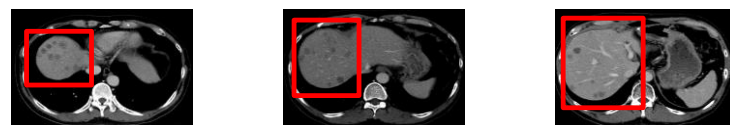
| Population                 | Efficacy evaluable |
|----------------------------|--------------------|
| No. of pts                 | 27                 |
| <b>Response</b>            |                    |
| PR                         | 9 (33.3%)          |
| SD                         | 14 (51.9%)         |
| PD                         | 4 (14.8%)          |
| <b>Efficacy assessment</b> |                    |
| ORR                        | 33.3%              |
| DCR (≥ 6 weeks)            | 81.5%              |

Data cut-off as of 26 Nov 2018  
ASCO GI 2019

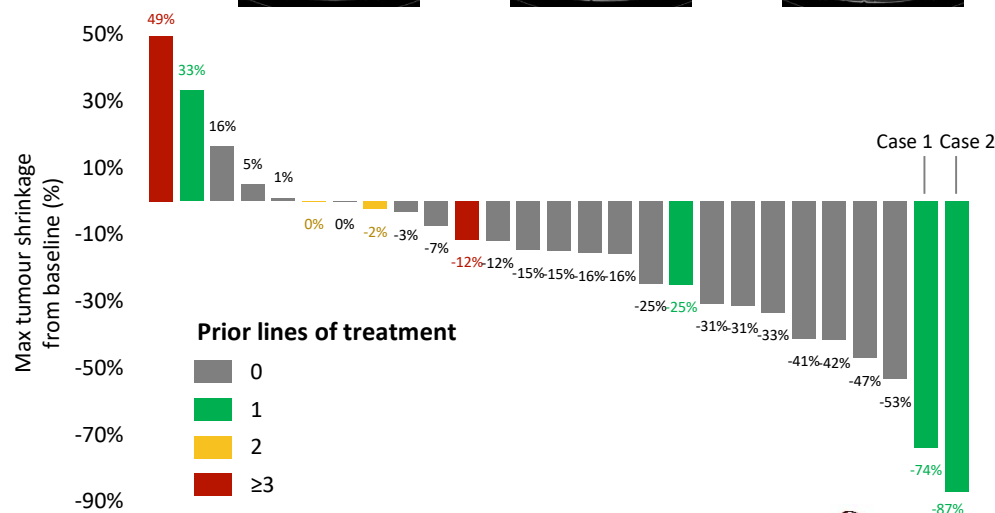
|                        | Case 1                     | Case 2                    |
|------------------------|----------------------------|---------------------------|
| <b>Demographics</b>    | 51 years, female           | 58 years, male            |
| <b>Line of therapy</b> | 2 <sup>nd</sup>            | 2 <sup>nd</sup>           |
| <b>Best response</b>   | PR                         | PR                        |
| <b>Days on study</b>   | 653 (476 days monotherapy) | 210 (91 days monotherapy) |

CT scan images for Case 2

Before

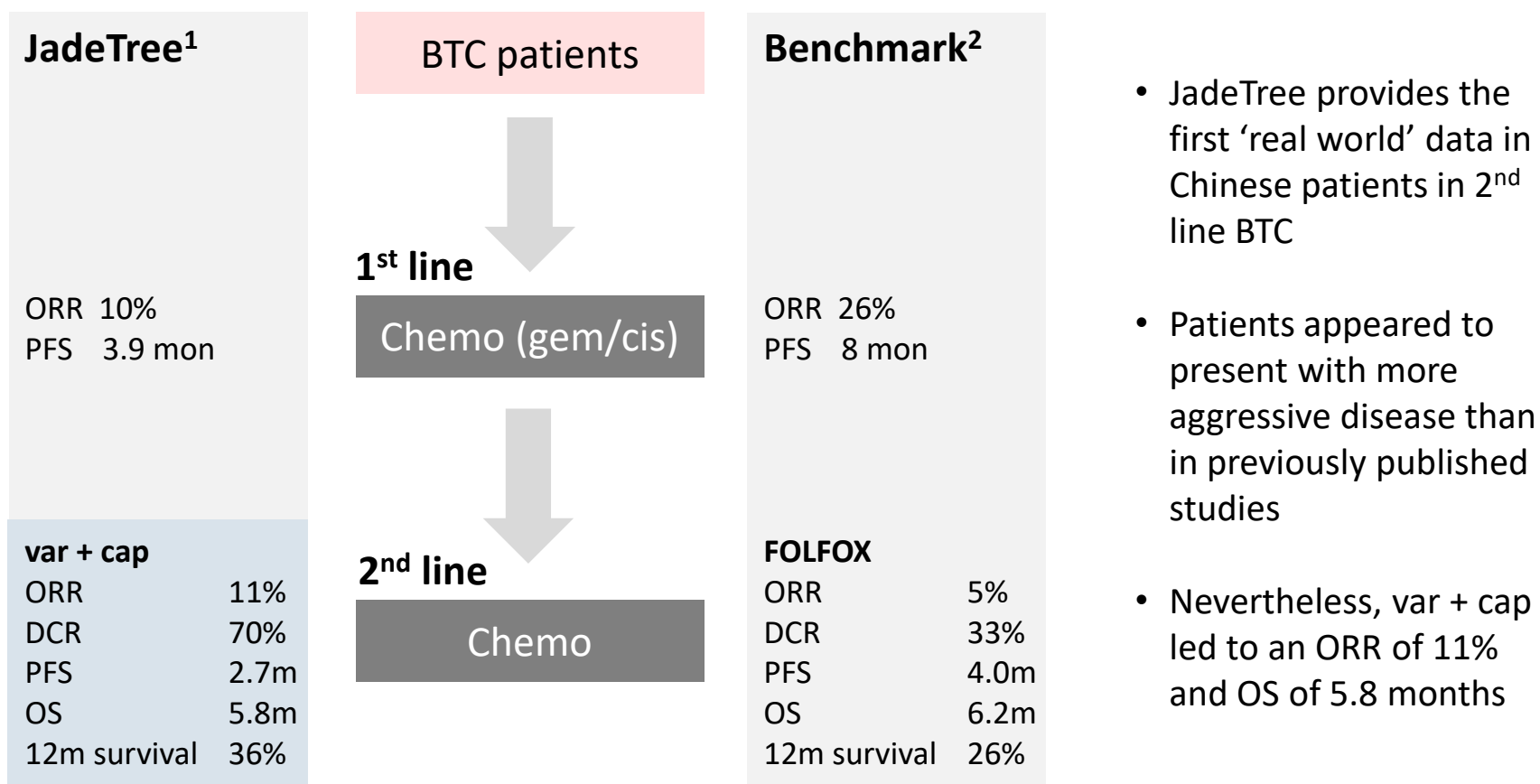


After



# Recent data from China show *varlitinib* plus capecitabine may be an efficacious regimen for 2<sup>nd</sup> line BTC patients

62 patient single-arm phase 2 study in China testing *varlitinib* + capecitabine in 2<sup>nd</sup> line BTC patients that had progressed on gemcitabine-based chemotherapy



1 Data presented in late-breaking presentation at CSCO 2019. First line data based on historical patient records *before* entering clinical study. Evaluable patients.

2 ABC-02, ABC-06 studies carried out in the UK



# Pivotal TreeTopp trial (2<sup>nd</sup> line BTC)



- Pivotal “TreeTopp” clinical trial in 2<sup>nd</sup> line BTC
  - 56 sites including US, EU, Japan, China, AsiaPac
  - Led by Dr Milind Javle (MD Anderson)
  - Clinical trial design agreed with US FDA
- Enrolment completed ahead of schedule in December 2018
- Topline data expected in 4Q 19

2<sup>nd</sup> line BTC  
patients

*varlitinib* + capecitabine

placebo + capecitabine

N = 127

Primary endpoints: ORR, PFS

Secondary endpoints: OS, DOR, DCR, tumour size

**ABC-06 study<sup>1</sup> is the only randomised trial testing chemo in 2L BTC:**

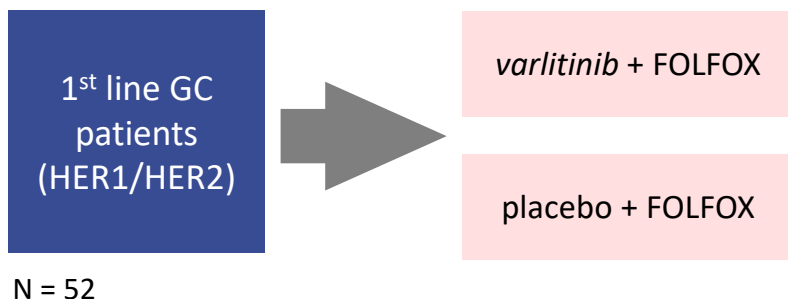
| Drug                        | n  | ORR          | PFS (mon)    | OS (mon) |
|-----------------------------|----|--------------|--------------|----------|
| FOLFOX + ASC <sup>1</sup>   | 81 | 5%           | 4.0          | 6.2      |
| Control (ASC <sup>1</sup> ) | 81 | Not measured | Not measured | 5.3      |

The trial will meet its primary objective if either endpoint is significant at the one-sided 5% level or if both endpoints are significant at the one-sided 10% significance level

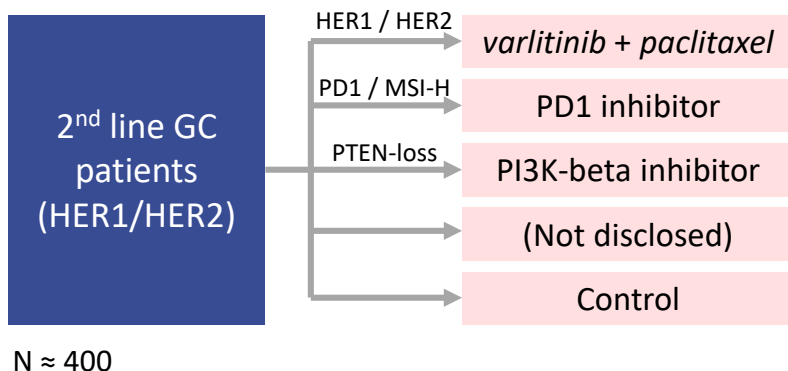
1 ABC-06, A randomised phase 3, multi-centre, open-label study of active symptom control (ASC) alone or ASC with oxaliplatin/5-FU chemotherapy



# Gastric cancer: moving from 1<sup>st</sup> line to 2<sup>nd</sup> line



In a recent phase 2 study in 1<sup>st</sup> line HER1/HER2 gastric cancer, there was a trend to increased tumour shrinkage in the *varlitinib* arm (22.0% vs 12.5%), however the primary endpoint was not met (required 20% difference between the arms).



Subsequently, *varlitinib* has been selected by K-MASTER for a phase 2 umbrella study testing *varlitinib* in 2<sup>nd</sup> line HER1/HER2 gastric cancer. (K-MASTER is Korea's leading precision medicine research group, operated by Korea University, funded by the Korean government).



ASLAN004

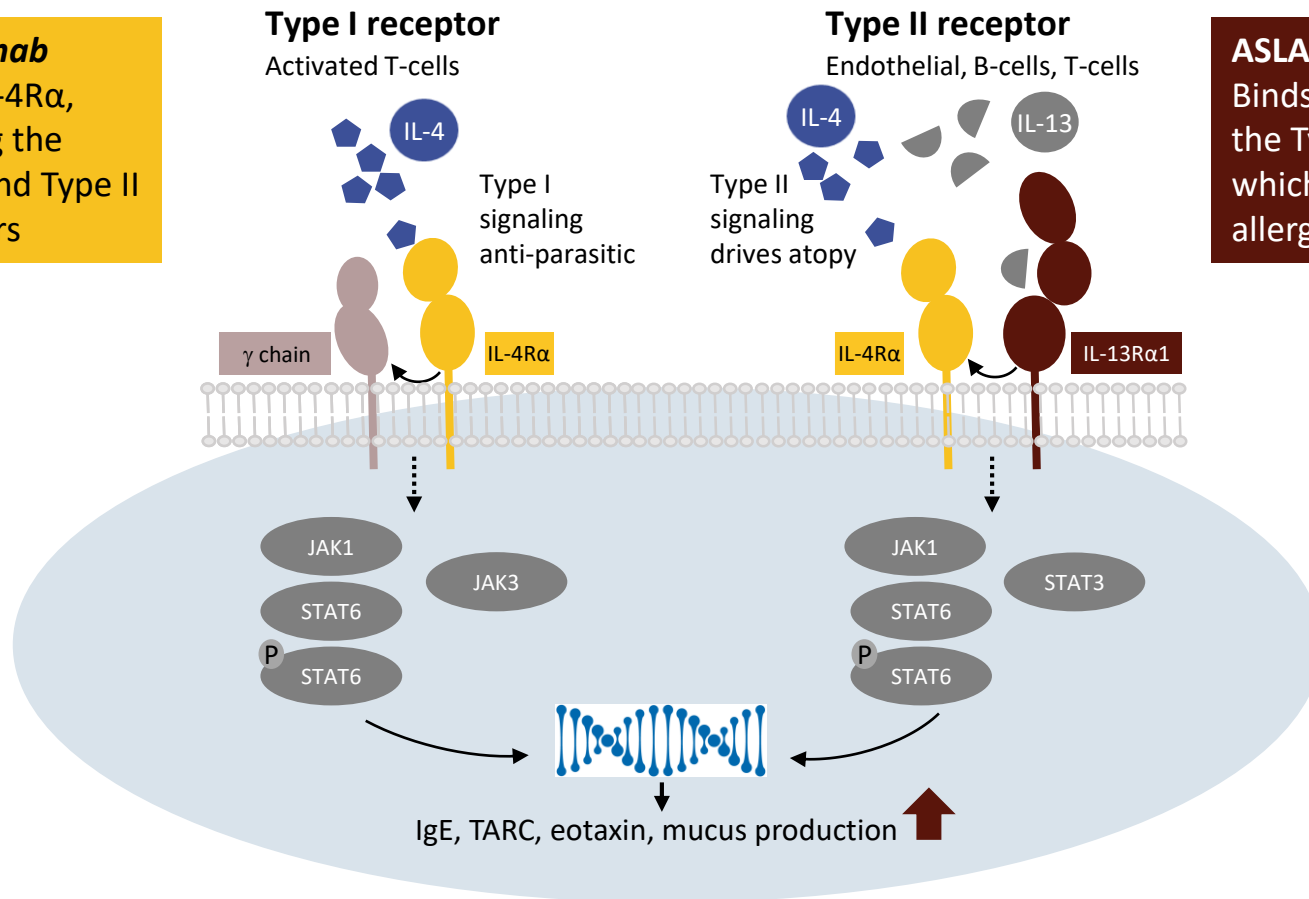


# ASLAN004 blocks signaling through IL-4 and IL-13

- ASLAN004 targets the IL-13 receptor  $\alpha 1$  subunit
- Blocks same pathways responsible for allergic inflammation as *dupilumab*

## **Dupilumab**

Binds IL-4R $\alpha$ ,  
blocking the  
Type I and Type II  
receptors



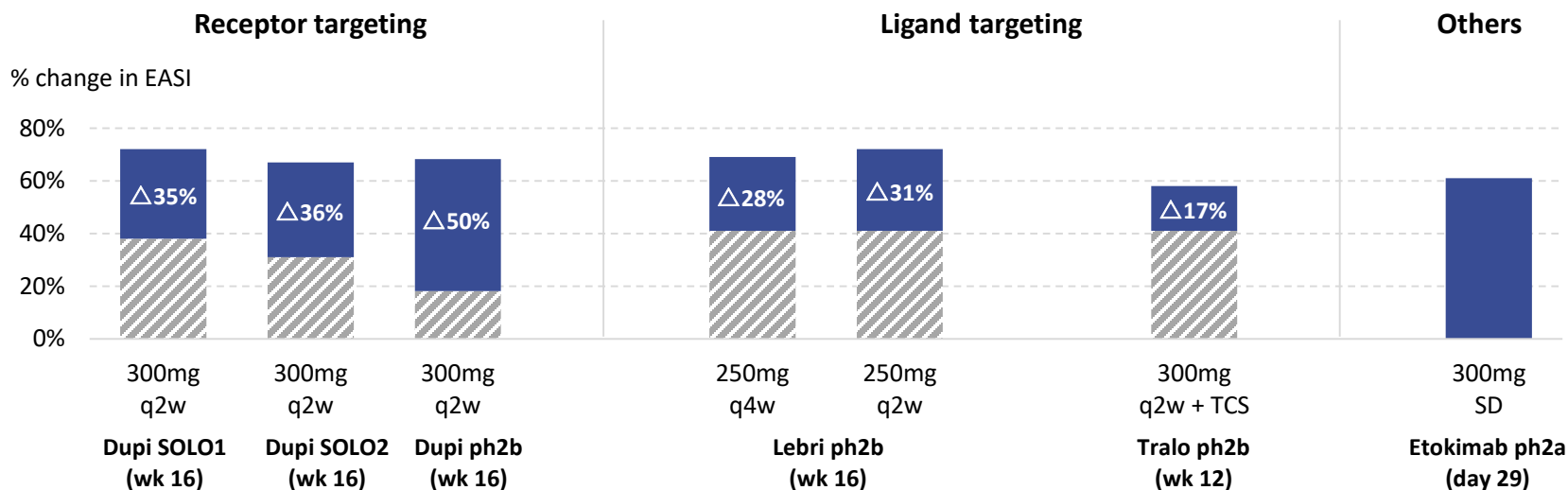
# Receptor targeting is more effective than ligand targeting

## Receptor targeting

| ASLAN004         | IL-13R $\alpha$ 1 | Phase 1 in atopic dermatitis                      |
|------------------|-------------------|---|
| <i>Dupilumab</i> | IL-4R $\alpha$    | Approved in atopic dermatitis and allergic asthma |

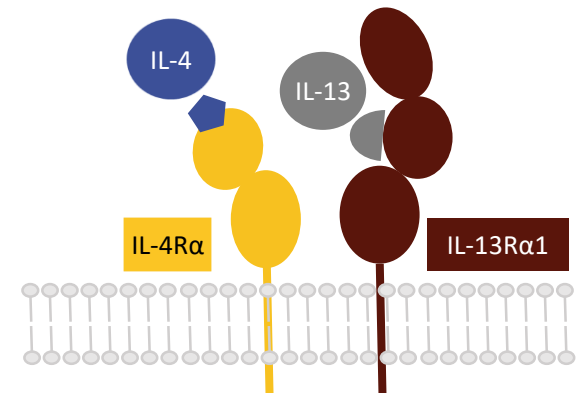
## Ligand targeting

|                          |                |  |
|--------------------------|----------------|--|
| <i>Lebrikizumab</i>      | IL-13          | Discontinued in asthma, phase 3 in atopic dermatitis |
| <i>Tralokinumab</i>      | IL-13          | Discontinued in asthma, phase 3 in atopic dermatitis |
| <i>Anrukizumab</i>       | IL-13          | Discontinued   |
| <i>Altrakincept</i>      | IL-4           | Discontinued   |
| <i>Pascalizumab</i>      | IL-4           | Discontinued   |
| IL-4/IL-13 cytokine trap | IL-4 and IL-13 | Discontinued   |
| SAR-156597 bispecific    | IL-4 and IL-13 | Discontinued   |
| QBX258, VAK-694, QAX-576 | IL-4 and IL-13 | Discontinued   |



# ASLAN004 binds more strongly to receptor than *dupilumab* relative to its respective ligand

| Receptor          | Ligand           | Kd (nM) | Comments  |
|-------------------|------------------|---------|---|
| IL-13R $\alpha$ 1 | IL-13            | 30      | ASLAN004 has a 60 fold higher affinity for receptor than IL-13            |
| IL-13R $\alpha$ 1 | ASLAN004         | 0.5     |   |
| IL-4R $\alpha$    | IL-4             | 0.1     | <i>Dupilumab</i> only has a 3 fold higher affinity for receptor than IL-4 |
| IL-4R $\alpha$    | <i>Dupilumab</i> | 0.03    |   |

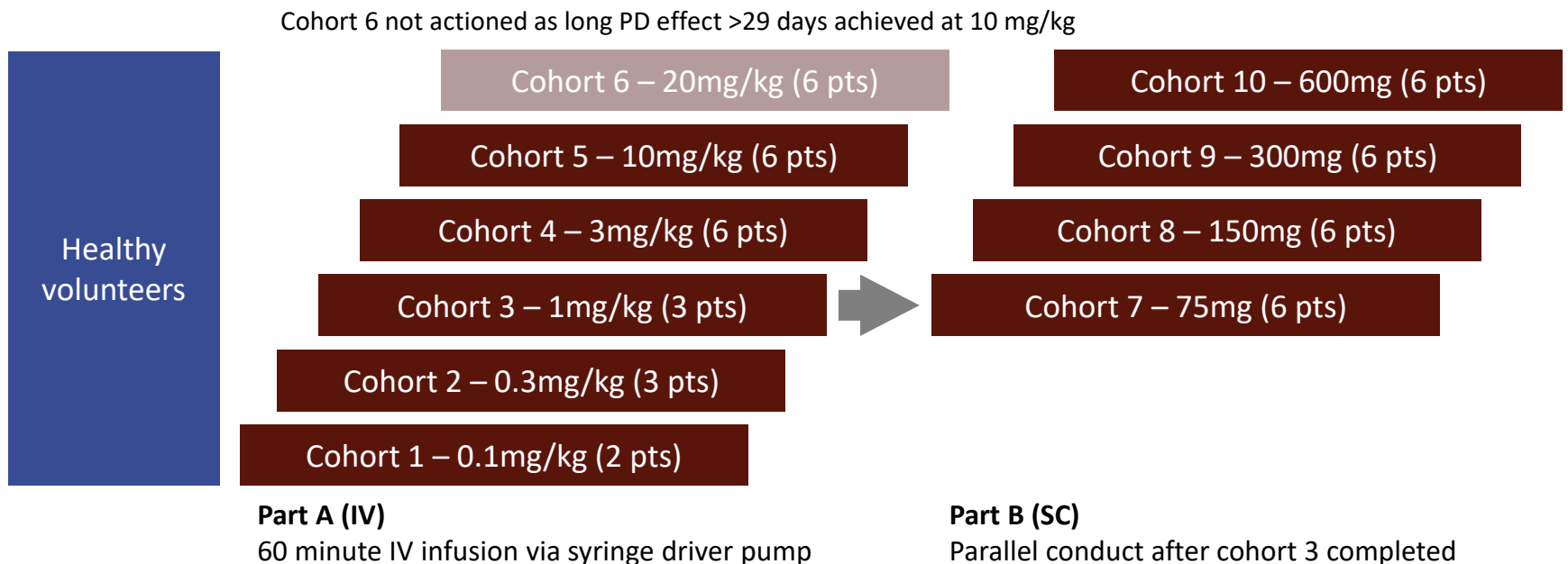


ASLAN004 offers a greater affinity difference between ligand and receptor binding which may translate to lower required concentration *in vivo*



# Phase 1 SAD study in healthy volunteers completed

- Well tolerated at all doses when administered IV and subcut
  - No adverse events that led to discontinuations, no significant injection site reactions
- Analysis of downstream mediators including pSTAT6 demonstrated complete inhibition within one hour of dosing with IV and maintained for more than 29 days
- PK profile may allow for monthly dosing
- Trough level required to completely inhibit signal transduction via the receptor was over an order of magnitude lower than that of existing therapies



# ASLAN004 well-tolerated at all dose levels

| Drug-related adverse event           | N = 44    |     |          |          |        |
|--------------------------------------|-----------|-----|----------|----------|--------|
|                                      | Any grade |     | Severity |          |        |
|                                      | N         | (%) | Mild     | Moderate | Severe |
| Decreased appetite                   | 2         | 5   | 1        | 1        | 0      |
| Alanine aminotransferase increased   | 1         | 2   | 1        | 0        | 0      |
| Diarrhoea                            | 1         | 2   | 1        | 0        | 0      |
| Pyrexia                              | 1         | 2   | 1        | 0        | 0      |
| Blood lactate dehydrogenase increase | 1         | 2   | 1        | 0        | 0      |
| Weight decrease                      | 1         | 2   | 1        | 0        | 0      |
| Lymphocyte count decrease            | 1         | 2   | 1        | 0        | 0      |
| Headache                             | 1         | 2   | 0        | 1        | 0      |
| C-reactive protein increase          | 1         | 2   | 1        | 0        | 0      |
| Injection site pruritus (mild)       | 1         | 2   | 1        | 0        | 0      |



# ASLAN004 MAD is designed to deliver PoC

- MAD / PoC study testing ASLAN004 in moderate-severe atopic dermatitis patients
- Expected to complete in 2H 20
- Double-blind, placebo controlled study
- Patients dosed for 8 weeks with a 12 week recovery period

Moderate-to-severe atopic dermatitis patients  
(N = 42)

Cohort 1 – Dose 1 QW  
(ASLAN004 N = 6, placebo N = 2)

Cohort 2 – Dose 2 QW  
(ASLAN004 N = 6, placebo N = 2)

Cohort 3 – Dose 3 QW  
(ASLAN004 N = 6, placebo N = 2)

Expansion cohort –  
Dose 1, 2 or 3 QW  
(ASLAN004 N = 12,  
placebo N = 6)

Primary endpoints are safety and tolerability

Secondary endpoints include percentage change in EASI score, EASI50, EASI75, pruritus score and IGA



# ASLAN004 has the potential to be best-in-class therapy

|                  | <i>Dupilumab</i>  | ASLAN004   |
|------------------|---|--|
| <b>Efficacy</b>  | <ul style="list-style-type: none"><li>• Blocks signaling through IL-4 and IL-13</li><li>• High steady state concentration</li></ul>   | <ul style="list-style-type: none"><li>• Blocks signaling through IL-4 and IL-13</li><li>• Only 1mg/l needed for full target inhibition</li></ul>   |
| <b>Dosing</b>    | <ul style="list-style-type: none"><li>• Dosed 300mg every 2 weeks</li></ul>   | <ul style="list-style-type: none"><li>• Complete inhibition of pSTAT6 to 29 days after a single IV dose</li><li>• Potential for 4 weekly dosing</li></ul>  |
| <b>Safety</b>    | <ul style="list-style-type: none"><li>• Conjunctivitis reported between 25% and 50% in clinical practice</li><li>• Injection site reactions common potentially due to formulation</li></ul> | <ul style="list-style-type: none"><li>• No conjunctivitis seen to date</li><li>• 10 fold lower level of detergent in the formulation which may be an irritant</li></ul>  |
| <b>Stability</b> | <ul style="list-style-type: none"><li>• 14 days max storage at room temperature and cannot be stored above 25°C</li><li>• Up to 24 months shelf life (refrigerated)</li></ul>               | <ul style="list-style-type: none"><li>• Greater flexibility for storage and travel</li><li>• ≥9 months stability at 25°C</li><li>• Up to 24 months shelf life (refrigerated) with stability trials ongoing</li></ul> |

1 Reported 25-50% conjunctivitis: Wollenberg et al (2018), Conjunctivitis occurring in atopic dermatitis patients treated with dupilumab-clinical characteristics and treatment.

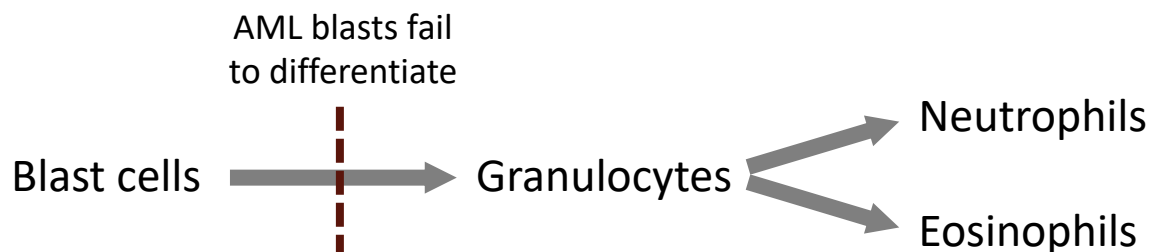


ASLAN003



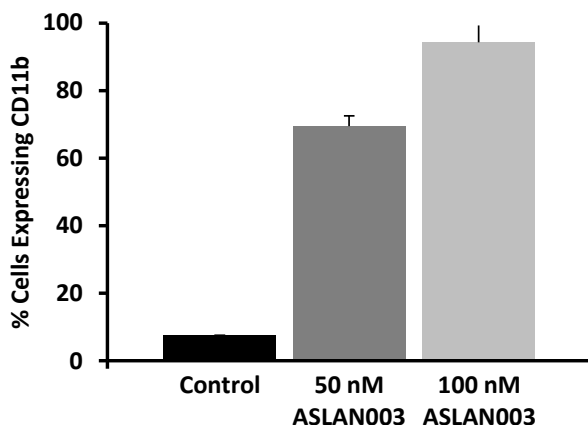
# ASLAN003 is an orally active, potent inhibitor of DHODH

DHODH controls the rate-limiting step in the synthesis of pyrimidines and contributes to the production of ATP

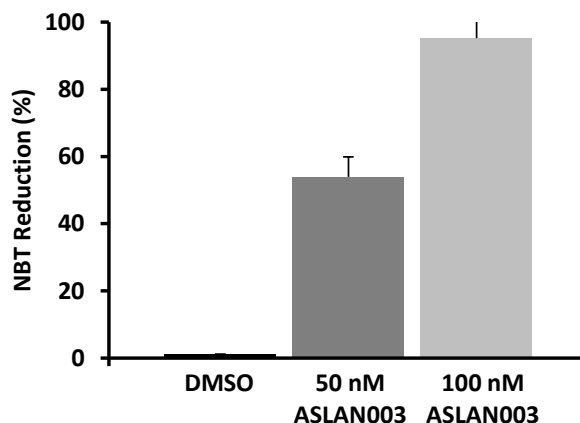


ATRA differentiates blasts in up to 15% of AML patients with >90% CR

Upregulation of CD11b in AML blast cell line THP-1 with ASLAN003



Formation of active granules in AML blast cell line THP-1 with ASLAN003

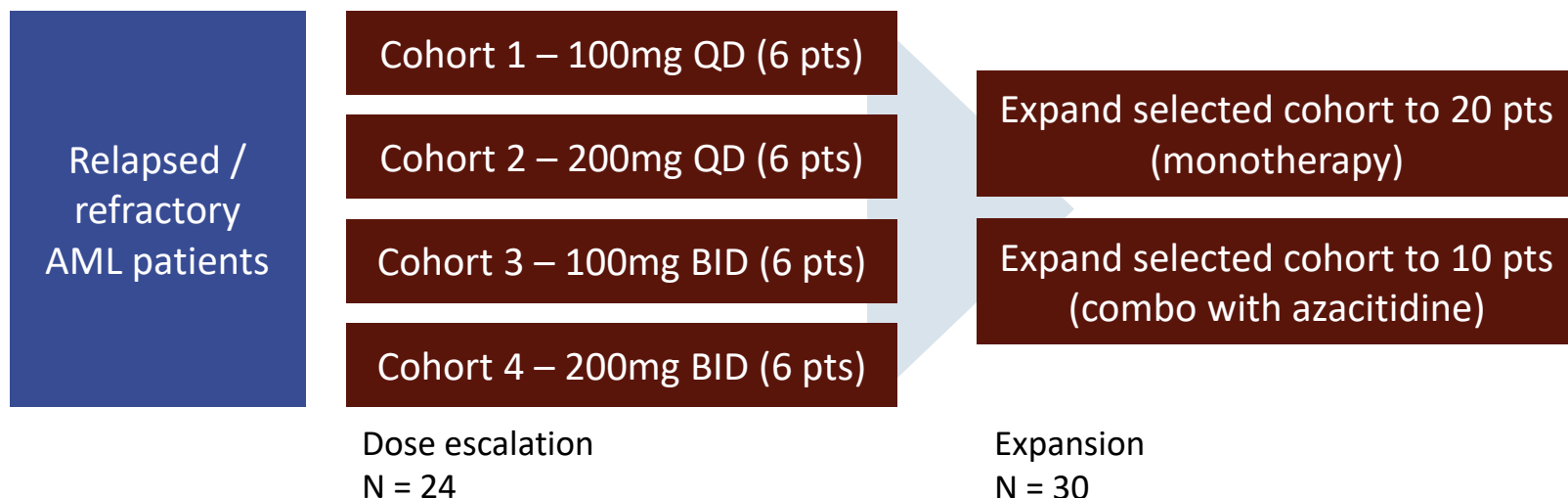


ASLAN003 promotes differentiation in multiple cell lines that are unresponsive to ATRA. This differentiation is mediated via DHODH.



# Ongoing phase 2 in R/R AML

- ASLAN003 monotherapy
- Primary endpoint: CR / CRi rate
- AML mutation analysis and ex-vivo bone marrow differentiation will allow identification of patients that are sensitive to ASLAN003
- First part of study completed



# ASLAN003 well-tolerated at all dose levels

| Drug-related adverse event       | N = 24    |     |                |     |
|----------------------------------|-----------|-----|----------------|-----|
|                                  | Any grade |     | Grade $\geq 3$ |     |
|                                  | N         | (%) | N              | (%) |
| Leukocytosis                     | 3         | 13  | 2              | 8   |
| Nausea                           | 3         | 13  | 0              | 0   |
| Abdominal pain                   | 2         | 8   | 0              | 0   |
| Rash maculo-papular              | 2         | 8   | 0              | 0   |
| Anaemia                          | 1         | 4   | 1              | 4   |
| Arthralgia                       | 1         | 4   | 0              | 0   |
| Conjunctivitis                   | 1         | 4   | 0              | 0   |
| Decreased appetite               | 1         | 4   | 0              | 0   |
| Epistaxis                        | 1         | 4   | 0              | 0   |
| Fatigue                          | 1         | 4   | 0              | 0   |
| Febrile neutropenia              | 1         | 4   | 1              | 4   |
| Hyperuricaemia                   | 1         | 4   | 0              | 0   |
| Hypokalaemia                     | 1         | 4   | 0              | 0   |
| Pleural effusion                 | 1         | 4   | 1              | 4   |
| Rash generalised                 | 1         | 4   | 0              | 0   |
| Tumor lysis syndrome             | 1         | 4   | 1              | 4   |
| White blood cell count increased | 1         | 4   | 1              | 4   |

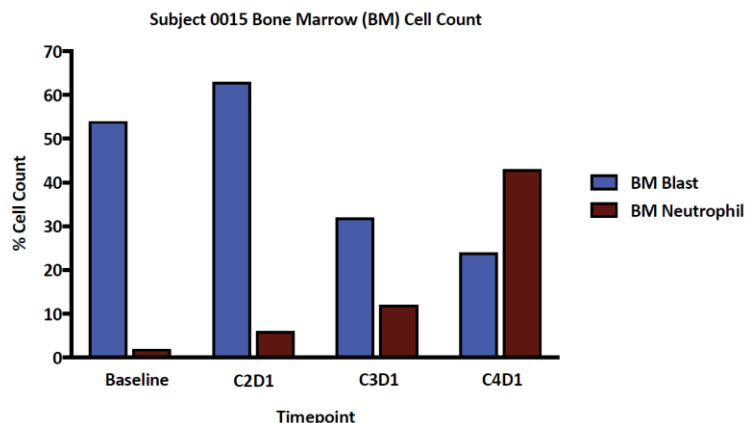
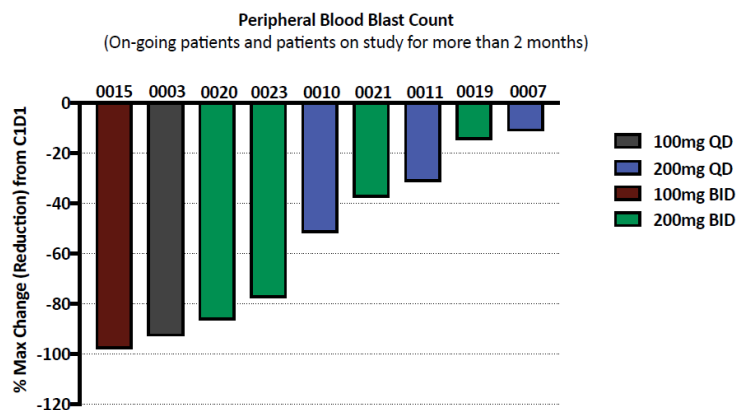
(Data cutoff 7 May 2019)

The most commonly occurring related adverse events were leukocytosis, nausea, abdominal pain and rash maculo-papular, with grade  $\geq 3$  leukocytosis in 2 patients



# Encouraging activity observed – the first clinical data reported for a DHODH inhibitor in AML












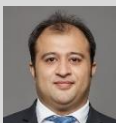

- 24 patients enrolled to date
- 6 patients on study for more than 2 months (efficacy evaluable) and 5 patients are ongoing
- In the evaluable patients:
  - Fall in peripheral blood blast cells in all evaluable patients (median >50%)
  - 1 PR (reduction in bone marrow blast cells from 54% at baseline to 24%) and 1 suspected CR (6% blast cells in peripheral blood, no bone marrow sample)
  - Evidence of differentiation syndrome seen in some patients
- Post-treatment bone marrow blast cells not yet mature for 200mg BID cohort



# Summary



# Management team with global development experience

| Position                                    |   | Experience   |  |
|---|---|--|--|
| <b>Dr Carl Firth</b><br>CEO                 |    | <br>Head of New Portfolio (China)<br>Head of BD (Asia)                | <br>Head of Asia Healthcare Banking |
| <b>Dr Mark McHale</b><br>CDO<br>Head of R&D |    | <br>Head of Molecular Sciences, R&I<br>Head of Early Asthma Portfolio |                                     |
| <b>Dr Bertil Lindmark</b><br>Acting CMO     |    | <br>Head of Development, R&I<br>Head of Development, Japan            | <br>Global Head of R&D<br>CSO       |
| <b>Stephen Doyle</b><br>CBO                 |    | <br>VP Specialty Care & Diabetes (China)                              | <br>VP Oncology (China)             |
| <b>Kiran Asarpota</b><br>VP Finance         |  | <br>Group Finance Director  |  |



# Financials

As of 30 September 2019

| Exchange / ticker  | US – NASDAQ: ASLN<br>Taiwan – TPEX: 6497 |
|--------------------|--|
| Shares outstanding | 160.2M                                   |
| Cash balance       | US\$ 8M (end Sep)                        |
| Recent financing   | US\$ 3.3M loan in Oct                    |
| Operating expenses | US\$ 5M (3Q 19)                          |



# Anticipated near-term milestones

| Expected timeline |          | Program           | Milestone  |
|-------------------|----------|-------------------|--|
| ✓                 | Complete | ASLAN003          | Interim phase 2 data (ASH, Dec 2018)                       |
| ✓                 | Complete | <i>Varlitinib</i> | 1 <sup>st</sup> line BTC phase 1b data (ASCO GI, Jan 2019) |
|                   | 4Q 19    | <i>Varlitinib</i> | 2 <sup>nd</sup> line BTC pivotal topline data              |
|                   | 2H 20    | ASLAN004          | Completion of MAD in atopic dermatitis                     |

