

# Cullinan Pearl

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## 2021 ASCO Update on CLN-081

June 4, 2021

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# Executive Hosts of Today's Webinar



**Owen Hughes**  
Chief Executive Officer



**Jeff Trigilio**  
Chief Financial Officer



**Jon Wigginton, MD**  
Senior Adviser &  
Chairman of SAB



**Leigh Zawel, PhD**  
Chief Scientific Officer,  
Small Molecules





# Cullinan Pearl (CLN-081)

Selective EGFR inhibitor targeting Exon 20 insertion mutant NSCLC



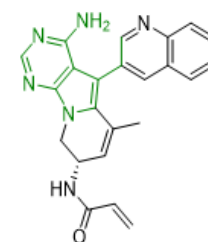
## Hypothesis

- EGFR is a therapeutically validated oncogenic driver in NSCLC
- CLN-081 is highly selective for exon 20 and exhibits weaker inhibitory effects on WT EGFR relative to mutants, thereby creating the potential for an enhanced therapeutic window relative to other compounds in development

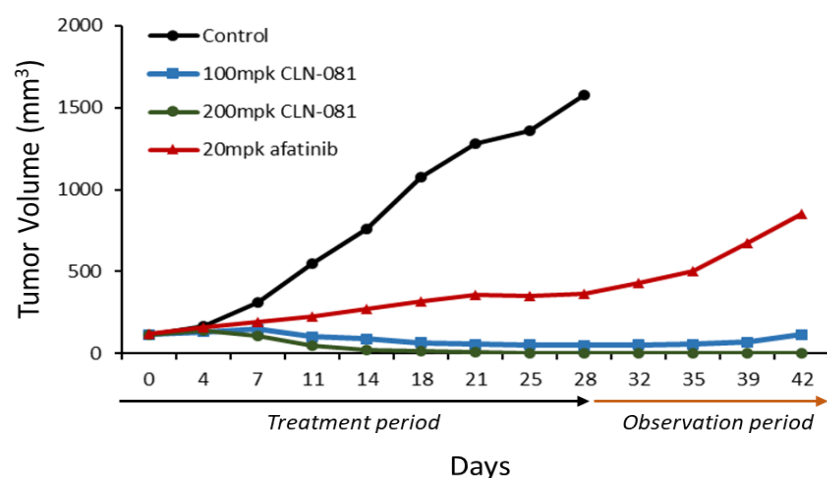


## Design

- Unique scaffold (pyrrolopyrimidine) relative to all other TKIs targeting Exon 20 NSCLC
- Selective for EGFR activating mutations only; limited activity against HER2 WT and Exon 20
- Potential to differentiate on tolerability and clinical activity

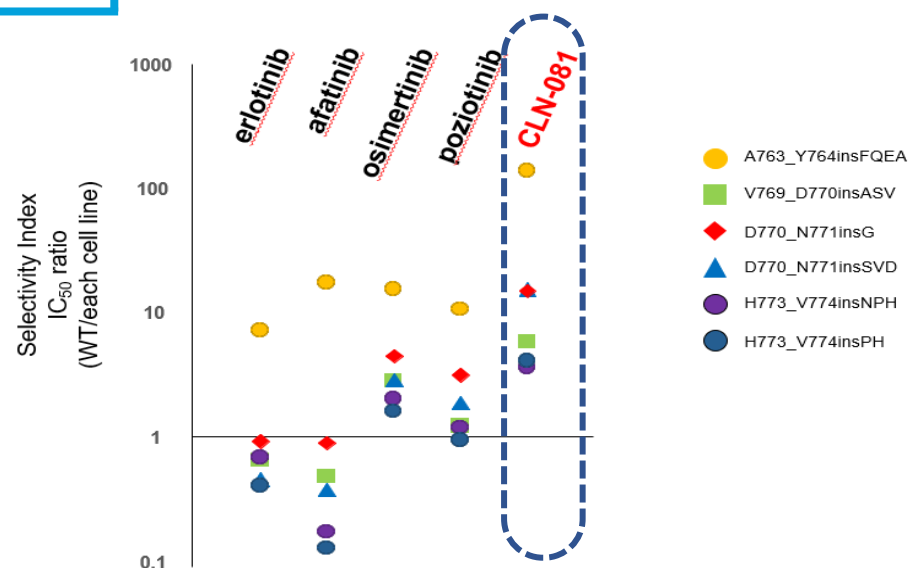


Antitumor activity in LXF2478 (PDX model for lung cancer harboring EGFR V769\_D770INSASV)



## Key PC Data

Selectivity for CLN-081 vs. other EGFR inhibitors in Exon20 insertion mutations



# Cullinan Pearl Enrollment Progress

Patient Enrollment								
Dose (BID)	Accelerated Titration		Rolling 6	Phase 1 Expansion		Phase 2a Expansion		
30 mg	N = 2		→	N = 6				
45 mg	N = 1							
65 mg	N = 1		→	N = 6	→	N = 7		
100 mg	N = 1		→	N = 6	→	N = 6	→	N = up to 23
150 mg				N = 7	Expansion under consideration			
Geographic Footprint								
Location	US	Netherlands	Singapore	Hong Kong	Taiwan	China		
# of Sites	9	1	2	1	1	IND approved		

**zaiLab™**

Zai Lab has licensed CLN-081 for Greater China.

# Cullinan Pearl Baseline Demographics

Select Baseline Characteristics	
Characteristic	All patients (n=44 <sup>1</sup> )
Median age (range)	64 (44-82)
Number of prior systemic anticancer regimens	
1 (%)	12 (27%)
2 (%)	17 (39%)
≥3 (%)	15 (34%)
Median (range)	2 (1-9)
Prior EGFR TKI, including pozio / mobo (%)	18 (40%)
Prior checkpoint inhibitor therapy (%)	25 (56%)
Brain mets at baseline (%)	12 (27%)

- ▶ **Heavily pretreated patient population**
- ▶ **Greater than 70% of patients have had at least 2 prior lines of therapy**

1. Excludes 1 patient that does not have baseline demographic info.

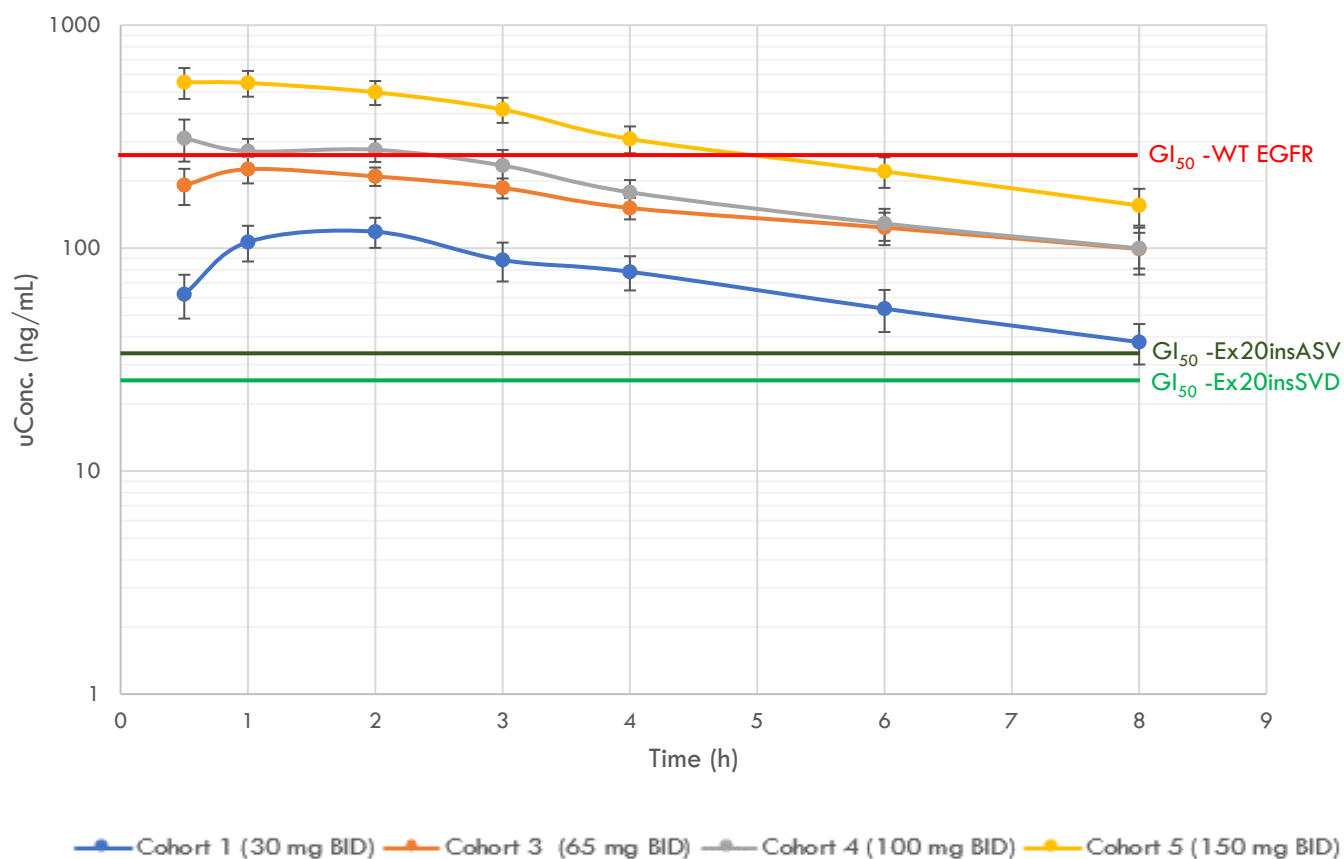
# Preliminary Safety Overview

Dose (BID)	30 mg	45 mg	65 mg	100 mg	150 mg
<b>Safety Population (n)</b>	<b>8</b>	<b>1</b>	<b>14</b>	<b>15</b>	<b>7</b>
DLTs	--	--	--	--	1
<b>Grade 1 TRAEs of interest</b>					
Skin Rash	6	--	7	5	4
Diarrhea	2	--	1	3	1
Elevated ALT / AST	1	--	2	2	2
Anemia	--	--	1	2	--
<b>Grade 2 TRAEs of interest</b>					
Skin Rash	--	--	6	5	1
Diarrhea	--	--	--	1	1
Elevated ALT / AST	--	--	--	1	--
Anemia	--	--	--	1	--
<b>Grade ≥3 TRAEs of interest</b>					
Skin Rash	--	--	--	--	--
Diarrhea	--	--	--	--	1
Elevated ALT / AST	--	--	2	1	2
Anemia	1	--	2	--	1
<b>Treatment Related Dose Reduction / Discontinuation</b>	--	--	2 / 1	2 / --	1 / 2



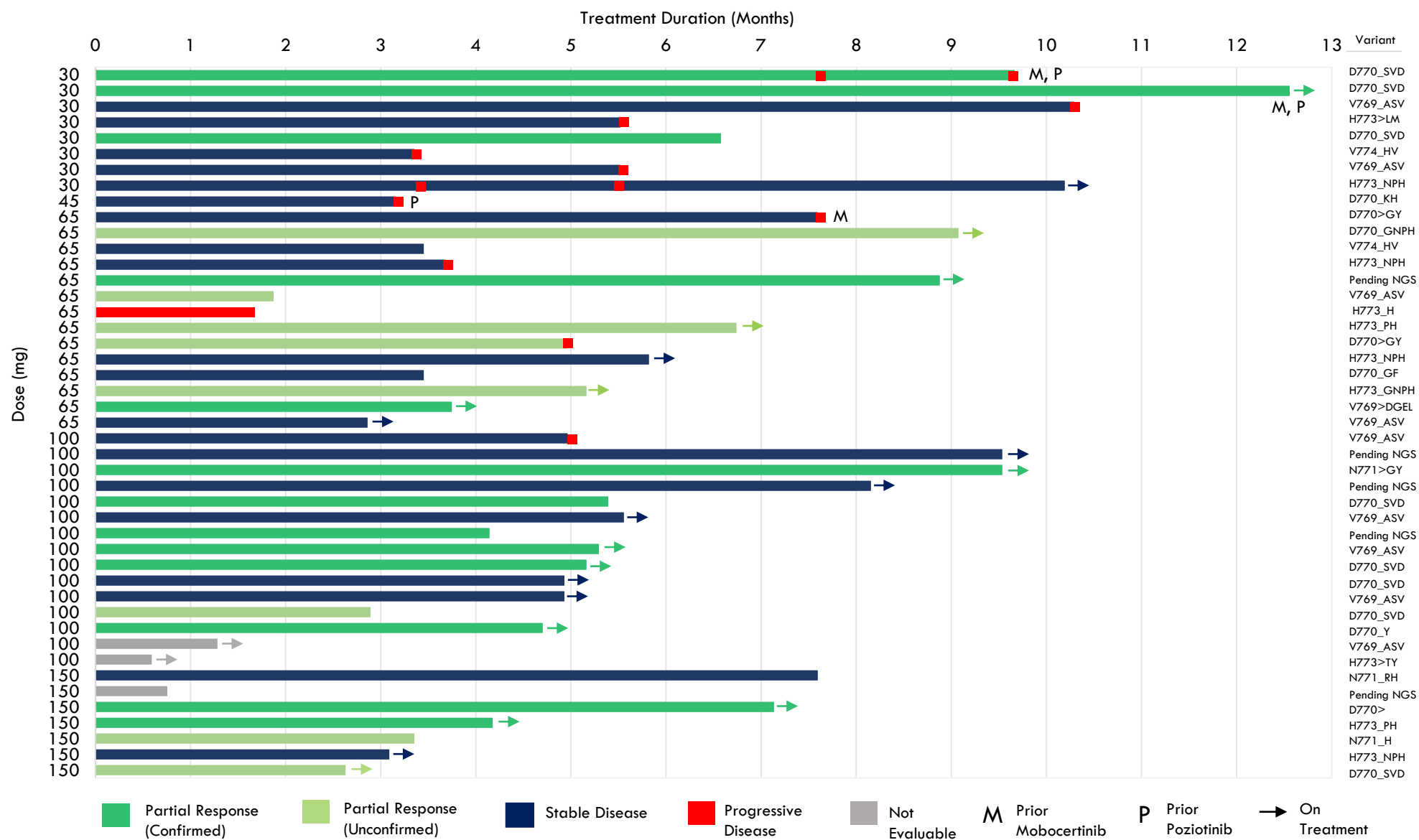
# Preliminary CLN-081 Pharmacokinetics

## Average Unbound Plasma Concentration over Time

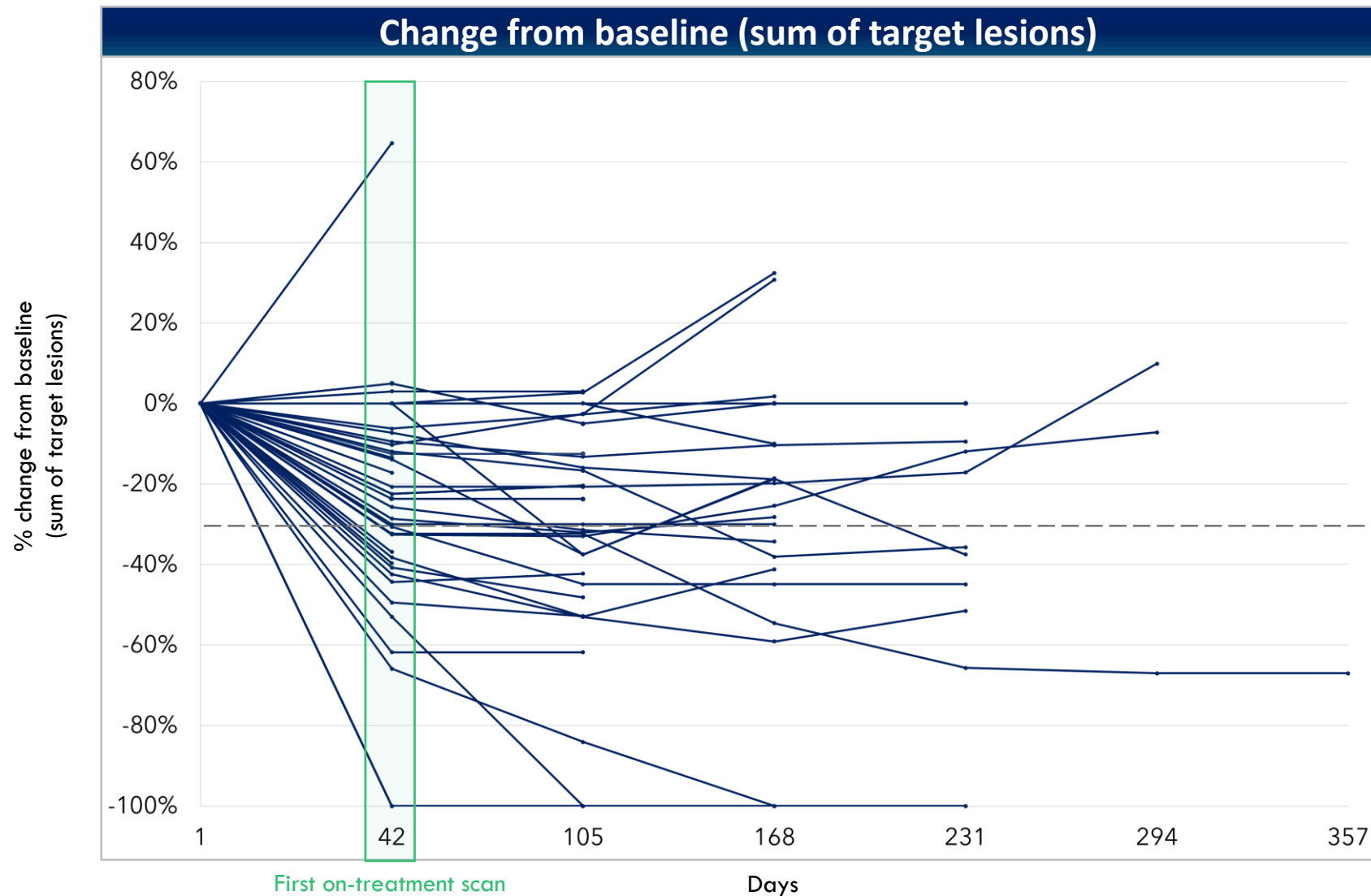


- ▶ **CLN-081 well behaved to date**
- ▶ **Sustained Coverage Over 8h Period**
  - Unbound plasma concentrations are greater than  $GI_{50}$  values for Ex20Ins cell-lines

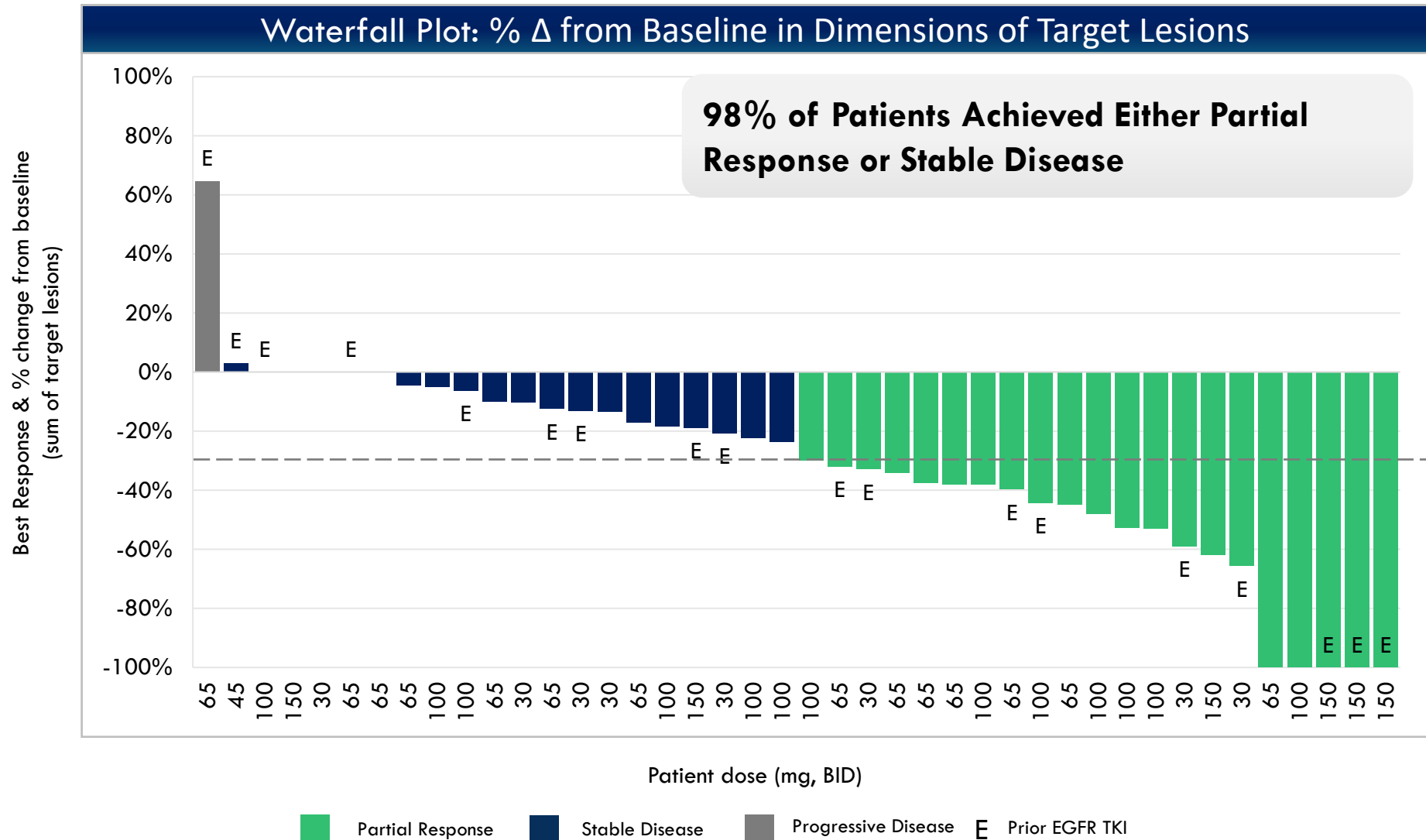
# Activity Across Dose Levels & Insertion Mutations



# CLN-081 Acts Rapidly: 76% Of Patients With Tumor Regression At First Post-Baseline Scan



## Percent Change from Baseline



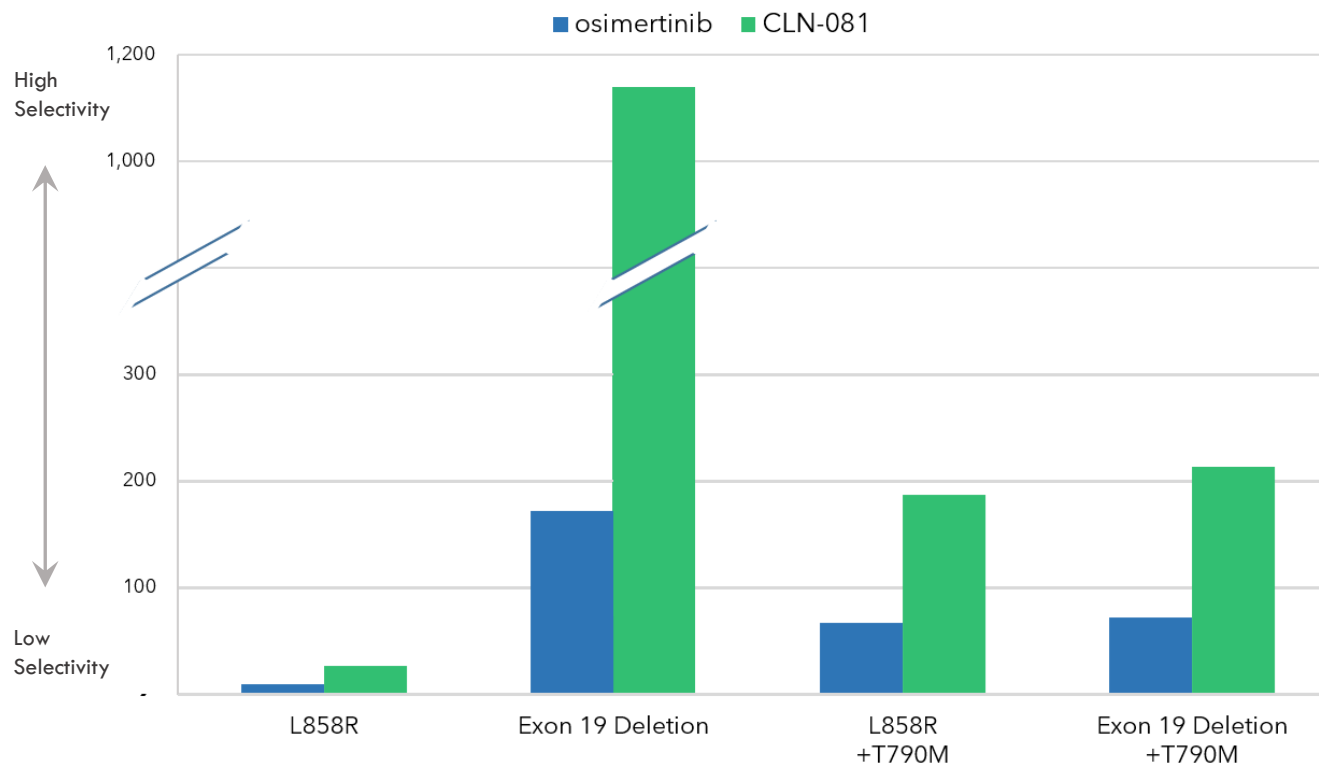
# Response Characteristics by Dose

Best Response n, (%)	30 mg (n=8)	45 mg (n=1)	65 mg (n=14)	100 mg (n=13)	150 mg (n=6)	Total (n=42)
PR	3 (38)	0	7 (50)	7 (54)	4 (67)	21 (50)
SD	5 (62)	1 (100)	6 (43)	6 (46)	2 (33)	20 (48)
PD	0	0	1 (7)	0	0	1 (2)
Confirmed Response	3 (38)	0	2 (14)	6 (46)	2 (33)	13 (31)
Unconfirmed Response	0	0	2 (14)	1 (8)	0	3 (7)
Pending Confirmation	0	0	3 (21)	0	2 (33)	5 (12)
Disease Control Rate (PR + SD $\geq$ 6 mos)	5 (62)	0	8 (57)	9 (69) *	5 (83)	27 (64)

- ▶ Objective responses in 7/13 (54%) response evaluable patients at 100 mg, including 6 confirmed responses (46%), and 1 that will remain unconfirmed
- ▶ Objective responses in 21/42 (50%) of patients across all doses, including 13 confirmed (31%), and 8 unconfirmed, including 5 patients pending confirmatory scan at cutoff and 3 that will remain unconfirmed
- ▶ Disease control in 9 of 13 (69%) patients at 100 mg; 3 patients with ongoing SD followed less than 6 months

# CLN-081 Selectivity Index Supports Utility In Traditional Sensitizing Mutations

Selectivity Index (IC<sub>50</sub> ratio)

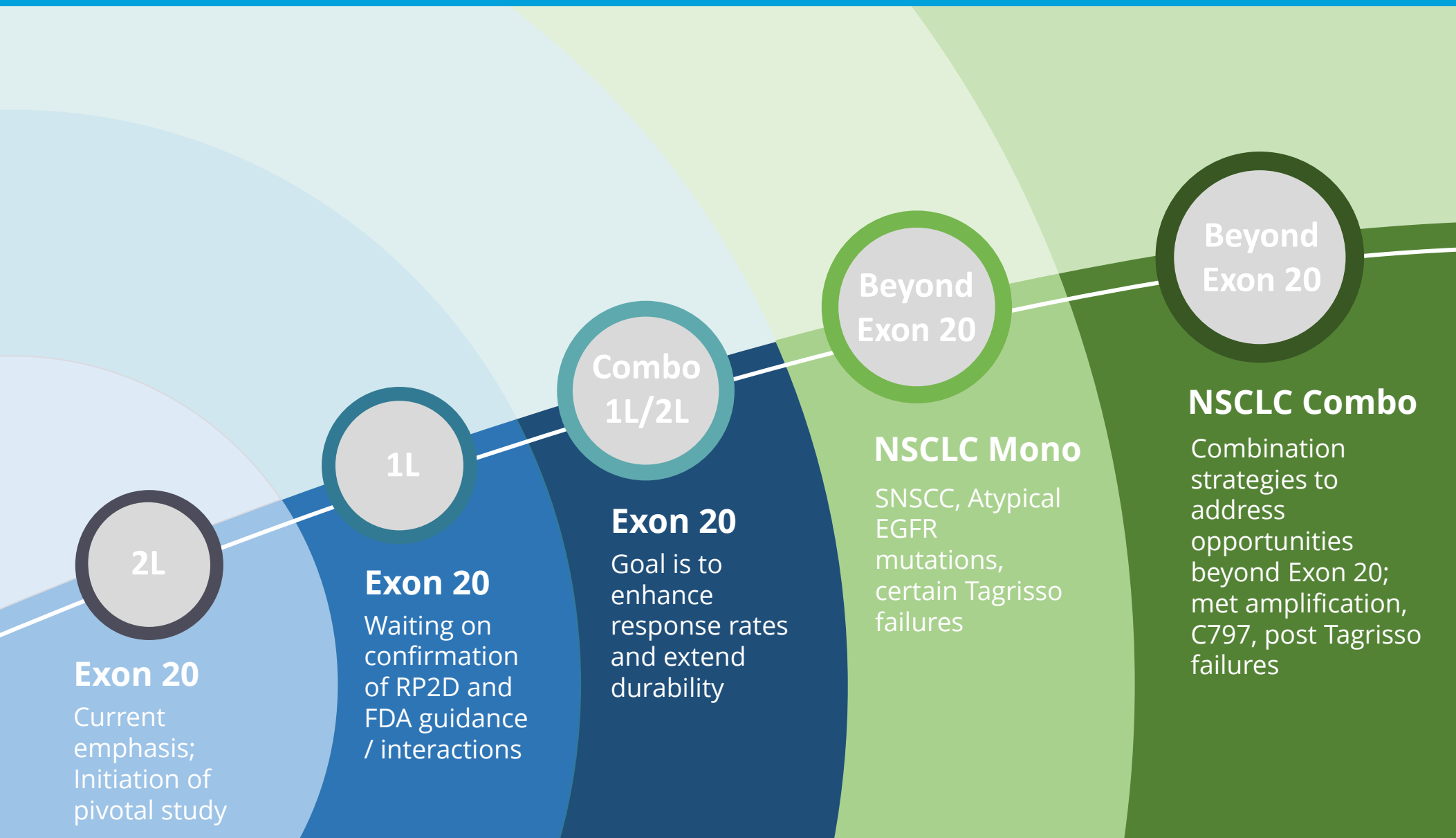


▶ CLN-081 activity evaluated in Ba/F3 cell-lines expressing EGFR mutations

- Selectivity index is calculated as ratio of IC<sub>50</sub> values for WT vs indicated EGFR mutation

▶ For each cell line, **CLN-081 demonstrates higher selectivity than osimertinib**

# Cullinan Pearl Life Cycle Management



# Conclusions To Date







**Owen Hughes**  
Chief Executive Officer



**Jeff Trigilio**  
Chief Financial Officer

# Q&A



**Jon Wigginton, MD**  
Senior Adviser &  
Chairman of SAB



**Leigh Zawel, PhD**  
Chief Scientific Officer,  
Small Molecules