



**CYCLACEL**

**Translating cancer biology into medicines**  
***BIO CEO Investor Conference***

**NASDAQ CYCC - February 12, 2018**

# Disclaimer



This presentation contains forward-looking statements within the meaning of the “safe harbor” provisions of the Private Securities Litigation Reform Act of 1995 about financial results and estimates, business strategy, clinical trial plans and research and development programs of Cyclacel Pharmaceuticals, Inc. By their nature, forward-looking statements and forecasts involve risks and uncertainties because they relate to events and depend on circumstances that will occur in the future. For a further list and description of the risks and uncertainties the Company faces, please refer to our most recent Annual Report on Form 10-K and other periodic and current filings that have been filed with the Securities and Exchange Commission and are available at [www.sec.gov](http://www.sec.gov). The information in this presentation is current as of this date. Cyclacel does not take any responsibility to update such information.

**\$107 bn in 2015 (+12% YoY). *Est. ~\$150 bn in 2020.***

Price hikes, ↑ patient #, **longer duration of therapy**

Avg. annual patient out-of-pocket: **\$7k iv, \$3k oral Rx**

Major threat to this colossal investment:

***RESISTANCE TO CANCER Rx***

*\* Source: Aitken M, Kleinrock, M, IMS Institute for Healthcare Informatics, June 2, 2016.*

Single Rx targeting mutations: validated approach

↑ response but few cures/long stable disease

## ***EVOLUTION OF RESISTANCE OR ADDICTION TO CANCER GENES***

- Strategy: combine approved Rx that is no longer working with resistance-modifying Rx or
- Rx that breaks addiction

2001 Nobel Prize for Physiology & Medicine (*CDKs & cyclins*)

3 approved CDKi:

- IBRANCE® (palbociclib, PFE, approved 2015, ~\$3.3bn 2017E)
- 2017: KISQALI® (ribociclib, NVS), VERZENIO® (abemaciclib, LLY)
- CDK4/6 inhibitors → senescence → eventually resistance

*CDK2/9i strategy: overcome **resistance** by lowering killing threshold*

- CYC065 2<sup>nd</sup> Gen, highly potent, improved Rx profile (Ph 1)

In many cancers resistance correlates with:

- $\uparrow$  *pro-survival* protein expression, such as Bcl-2, Bcl-XL, **Mcl-1**
- addiction to oncogenes, such as **MYC, cyclin E**

First Bcl-2 Rx: venetoclax (ABBV, CLL); does not  $\downarrow$  Mcl-1

Competitive race to develop Rx that suppress Mcl-1

- *CYC065 1st CDK inhibitor Rx: durable  $\downarrow$  Mcl-1 in patients*

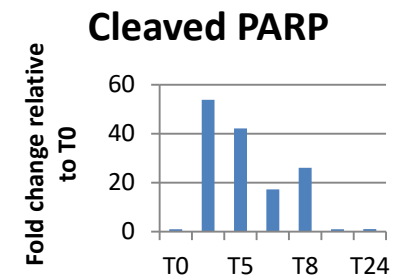
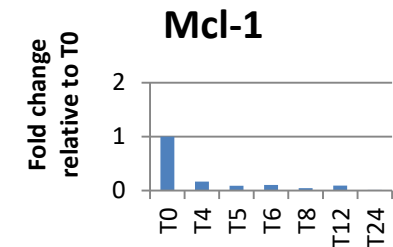
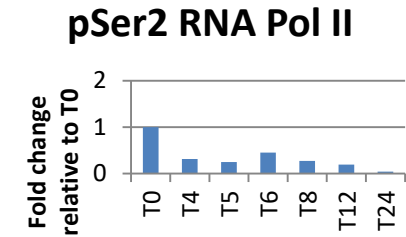
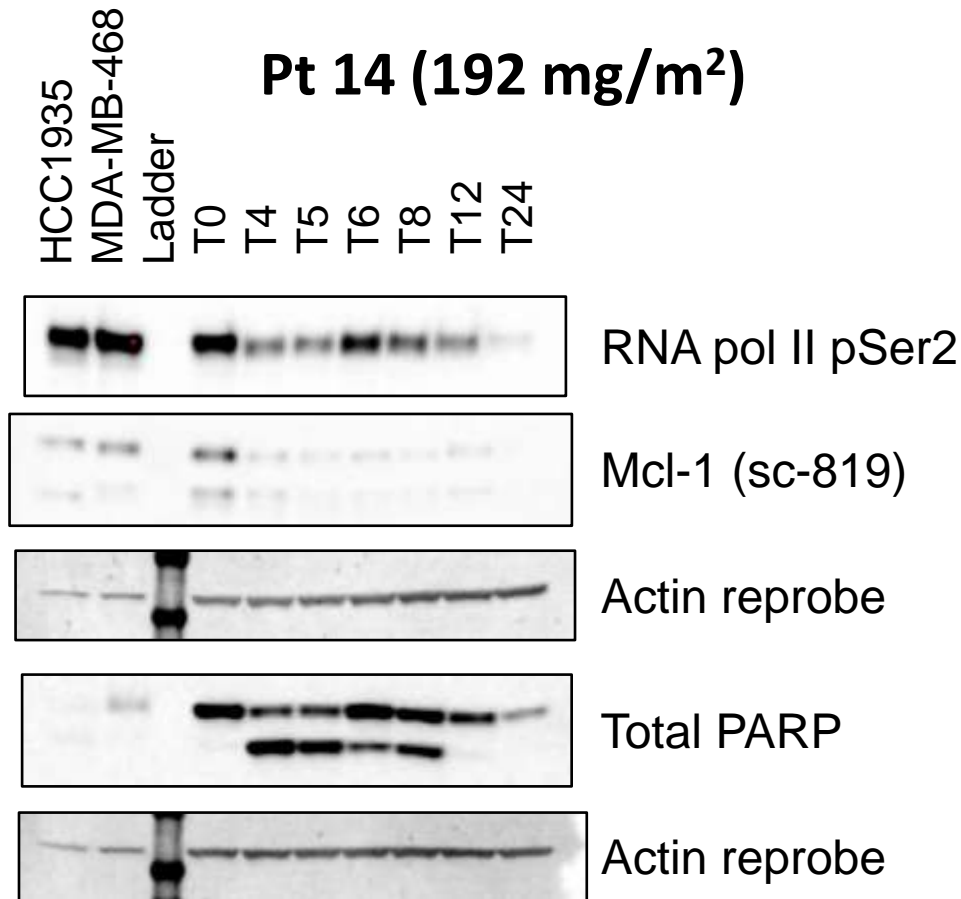
\* Source: Cyclacel data on file.

n=26 heavily pretreated patients with advanced solid tumors (13 in DL6 cohort RP2D)

- Durable **Mcl-1 suppression** >24h after single dose in 11/13 evaluable DL6 patients
- Anticancer activity in 6/13 patients (5 at RP2D)

*\* Source: Cyclacel data on file.*

# CYC065 First in Human Phase 1 Study (b)



*Observations are representative for the cohort.*

Source: Cyclacel data on file



## ***Hematological malignancies:***

- 1 Combination with **venetoclax**, i.e. relapsed/refractory CLL (incl. Mcl-1 ↑)

## ***Solid tumors:***

- 2 Selected Mcl-1 ↑ or MYC ↑ solid tumors, i.e. **neuroblastoma**, ovarian, etc.
- 3 Selected Cyclin E ↑ solid tumors, i.e. breast, uterine (USC)

## *CDK4/6 isoform*

**palbociclib (PFE), ribociclib (NVS), abemaciclib (LLY)**

Approved in combination with letrozole for ER +ve Her2 -ve advanced or met BC

**trilaciclib (GTHX) Ph1/2**

## *CDK2/9 transcriptional isoform*

**CYC065 (CYCC 2G) Ph1**

**seliciclib (CYCC 1G) Ph2**

**dinaciclib (pan CDK, MRK) Ph3**

**BAY1143572 (CDK9, BAY) Ph1**

*Other (pan CDK or selective):*

**SY1365 (CDK7, Syros);**

**voruciclib (CDK4/6/9, MEI Pharma)**

\* Source: Cyclacel data on file.

# DNA Damage Response (DDR):

*Overcoming Cancer DNA Repair & Evasion*



Cancer cells evade Rx; block DNA repair; ultimately become immortal

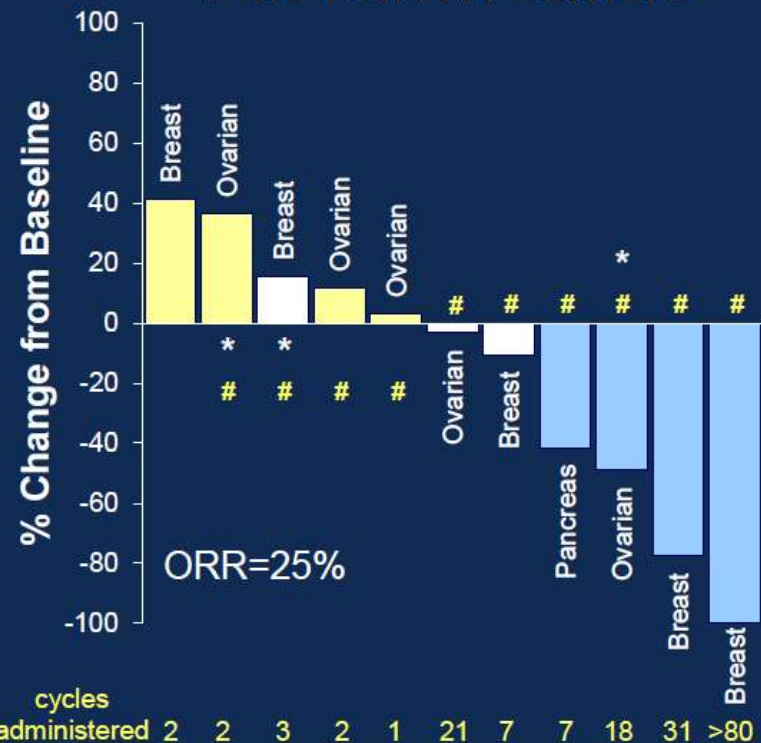
SoC HR deficient cancers (incl. BRCA): PARP inhibitors in ~ 50% of patients

## ***CYCC DDR strategy: combine CDKi + sapacitabine***

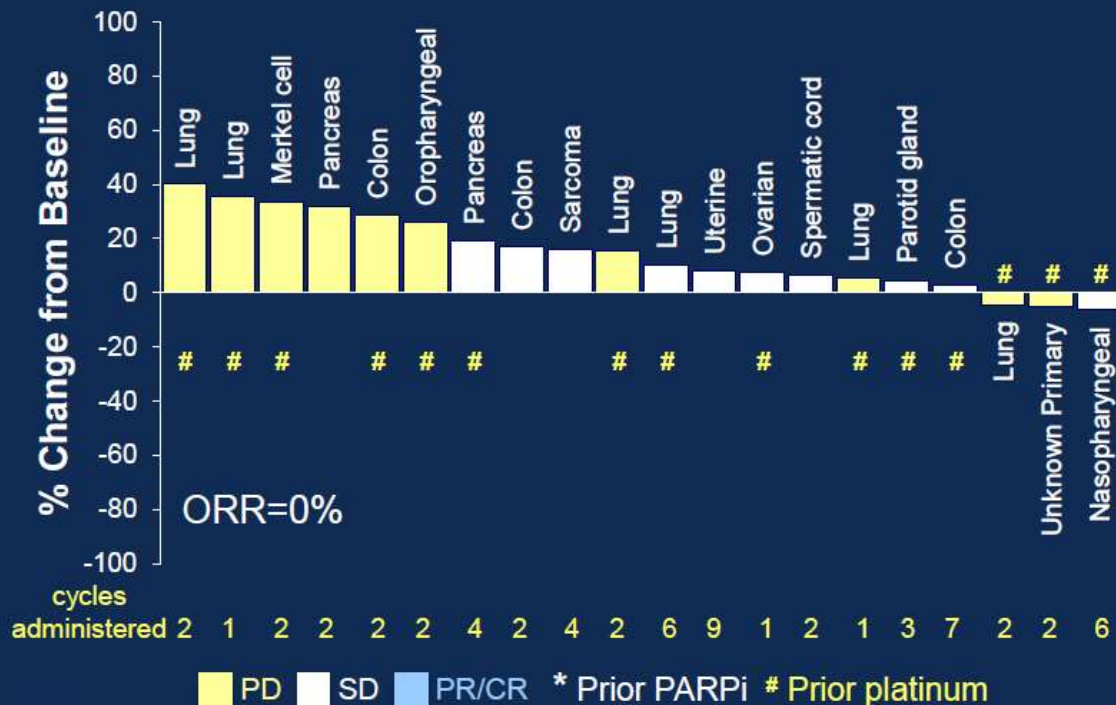
- CDKi modulate DNA repair via HR, NHEJ; ↓ expression of HR DNA repair genes incl. BRCA; disrupts cyclin E amplification
- Sapacitabine active in patients with BRCA +ve (HR def) cancers
- Encouraging clinical data: durable CR, PR, SD (n=76, ASCO 2016)

## Best Response (all cycles)

### Part 1 BRCA carriers



### Part 1 Non-BRCA carriers



PRESENTED AT: ASCO ANNUAL MEETING '16

Presented by: Sara M. Tolaney, MD, MPH

\* Source: Tolaney S et al, JCO 34, 2016 (suppl; abs. 2503).

# Sapacitabine in AML (SEAMLESS Ph 3 data)

*Optionality from potential regulatory submission*



- ✓ Increase in median OS (primary endpoint) did not reach stat. sig.
- ✓ Doubling of CR rate (secondary endpoint)
- ✓ Improved median OS in large (2/3 of study) prospectively defined subgroup based on WBC level
- ✓ Oral presentation at ASH Annual Meeting 2017
  - Determine optimal cut-off for WBC
  - Determine submissibility to regulatory authorities
  - Pre-submission End of Phase 3 meetings

*Source: Cyclacel press releases and data on file.*

# Development Pipeline



Program CYC- ...	Target/Indication	Preclinical	Phase 1/1b	Phase 2	Pivotal	Comm. Rights
<b>065</b>	Solid tumors (FIH)	RP2D Part 2 ongoing				Worldwide
	Blood cancers CLL + Bcl-2 inhibitor	CYC065 + venetoclax RR CLL				
	Solid tumors, i.e. NB MYCN, Mcl-1, Cyc E		Ph 1/2			
	Oral formulation	CMC	Ph1 Oral			
<b>sapa</b>	DDR*: BRCA Breast, ovarian, pancr.	sapa + seliciclib Part 3 ongoing				Worldwide (except Japan)
	SEAMLESS Data AML	Determine submissibility; regulatory advice				
<b>140</b>	Solid tumors and blood cancers	IND-ready	Ph1 FIH			Worldwide

Current activity
  In planning stage

# Financial Position & Capitalization



**Sept 30, 2017 cash & cash equivalents: \$26.0m<sup>1</sup>**

**Current Operating cash burn (excludes non-cash items)**

- ✓ 2014: ~ \$18.7m annual<sup>2</sup>
- ✓ 2015: ~ \$14.5m annual<sup>2</sup>
- ✓ 2016: ~ \$10.1m annual<sup>2</sup>
- 2017: ~ \$ 8.0m annual<sup>3</sup>

**Fully diluted shares: ~ 20.0 million<sup>1,4</sup>**

**No debt**

1. 10Q
2. 10-K
3. Company estimate
4. Common stock outstanding: 11.9m

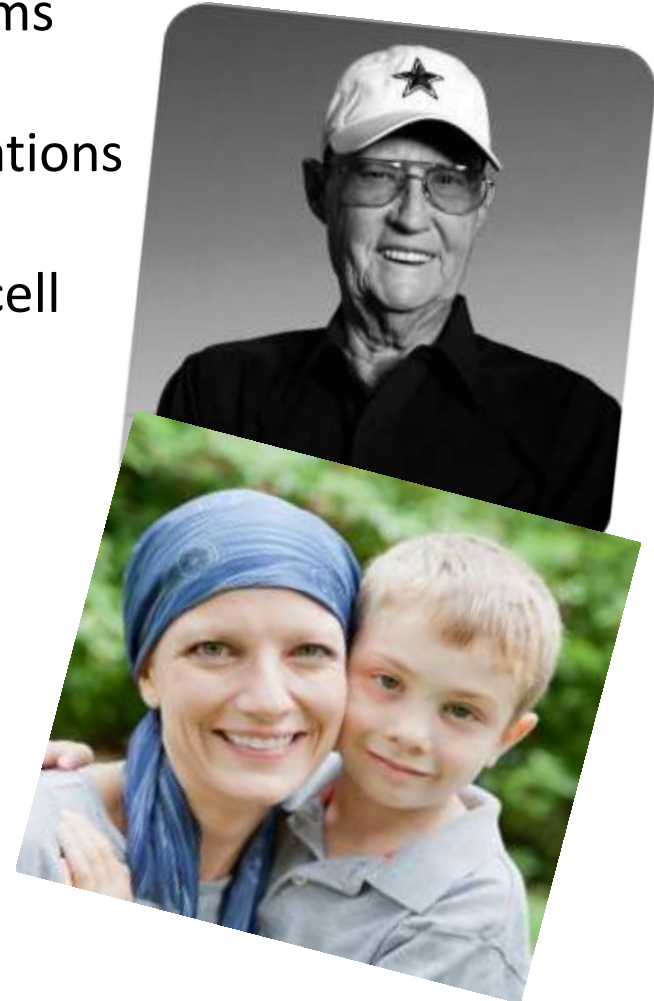
# Key Milestones



- Start CYC065 Ph 1b in RR CLL combo with venetoclax
- Start CYC065 Phase 1/2 in solid tumors, incl. NB
- CYC065 Phase 1 data solid tumors
- CYC065 oral formulation development
- Sapacitabine/seliciclib update BRCA +ve breast cancer
- CYC140 (PLKi) IND submission
- Determine submissibility of sapacitabine in eAML



- Clinical stage CDKi and DDR oncology programs
- Targeting molecularly-defined patient populations
- Treat difficult cancers and overcome cancer cell resistance & DNA repair
- CDK inhibitors: validated drug class
- Competitively positioned
- Significant market opportunities



# THANK YOU

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