



***Translating cancer biology
into medicines***

**NASDAQ CYCC
BIO CEO Investor Conference
February 12, 2019**

Disclaimer



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- Apply deep understanding of cell cycle biology to disrupt cancer
 - **resistance**
 - **DNA repair** or evasion
- Precision medicine strategy targeting
 - **Mcl-1** in leukemias (Phase 1)
 - **BRCA1/2** in breast cancer (Phase 1/2)
- Experienced management; estimated capital through Q2 2020

CYC065

- CDK inhibitor with proof of mechanism (down-regulation of Mcl-1) in humans
- 2L venetoclax combination in leukemias (CLL, AML)

Sapacitabine

- Oral nucleoside analogue, unique DNA damage response mechanism for BRCA +ve patients
- 2L olaparib combination in BRCA +ve breast cancer

CYC140

- PLK inhibitor with compelling preclinical data in liquid & solid cancers

CLL 2L

- 21k US incidence; majority on ibrutinib (BTKi)
- venetoclax (1L with ibrutinib or 2L)

CYC065

AML elderly unfit for chemotherapy

- ~16k US incidence; venetoclax+HMA (aza or dec)
- venetoclax combination

CYC065

BRCA +ve Breast Cancer

- ~11-15k US incidence; olaparib or other PARPi
- olaparib combination

sapa

Indication Rationale: 2L CLL (post BTKi)



1L US incidence 21,000; nearly all survivors receive 2L

Venetoclax does not ↓ Mcl-1

“Double-Hit” strategy to suppress Bcl-2 + Mcl-1

Preclinical evidence of synergy for venetoclax + CYC065*

CYC065 1st CDKi to durably suppress ↓ Mcl-1 in patients

CYC065 + venetoclax Ph 1b study FPI achieved

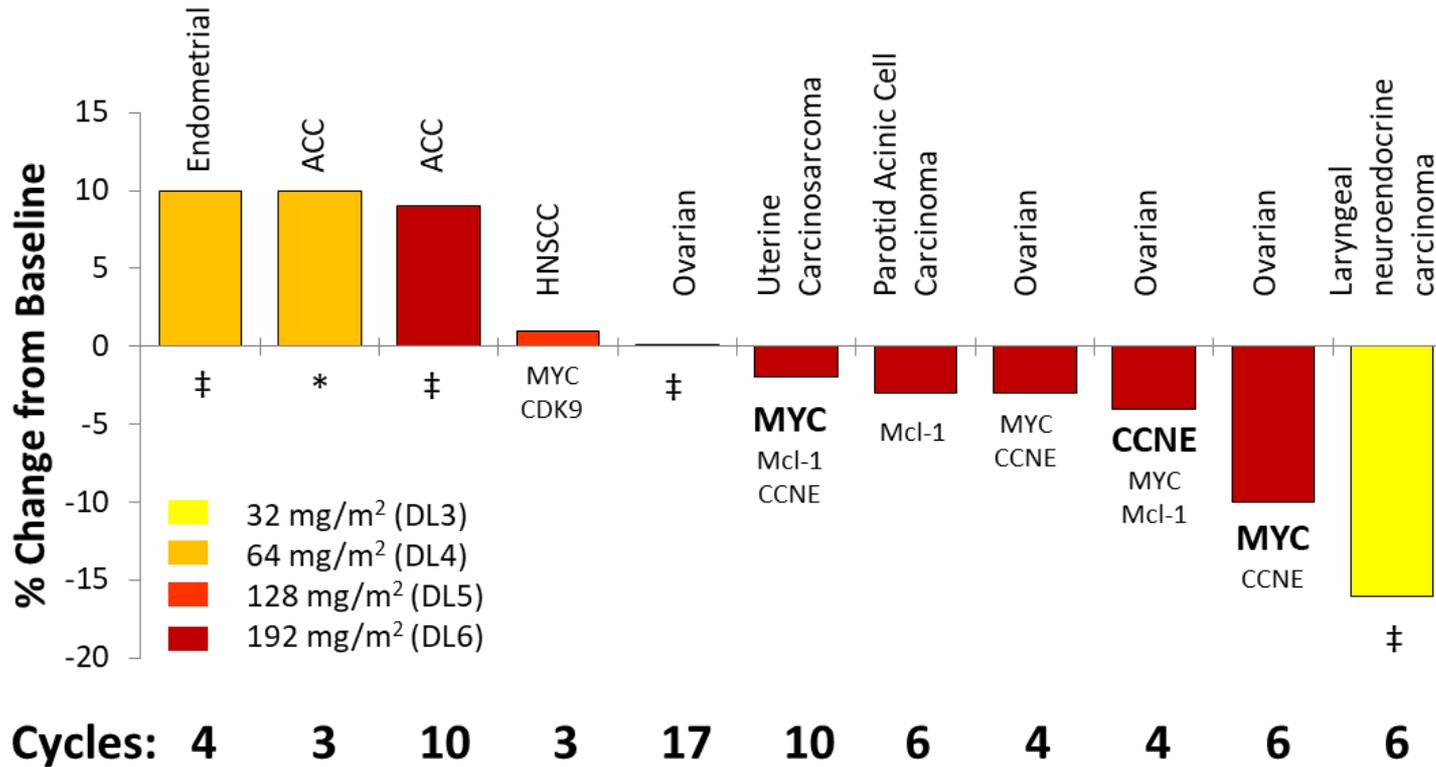
** Source: Chen et al AACR 2018 Abs 5095; Cyclacel data on file.*

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 DL6 patients
- Anticancer activity in 6/13 patients (5 at RP2D)

** Source: Cyclacel data on file.*

CYC065 First in Human Phase 1 part 1 Activity



Summary:

- 20/26 patients evaluable for response per RECIST 1.1
- 11/20 patients achieved stable disease (SD)
- 6/11 patients achieved SD for 4+ cycles

‡ no information; * complex deletions/gains. High copy gains shown in bold.

Do, Khanh T., et al, AACR Annual Meeting 2018.



CDK Inhibitor Landscape



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) Ph2

CDK2/9 transcriptional isoforms

CYC065 (CDK2/9, CYCC) Ph1 data

atuveciclib BAY1143572 (CDK9, BAY) Ph1 data

AZD4573 (CDK9, AZN) Ph1 ongoing

Other (pan CDK or selective):

flavopiridol/alvociclib (pan CDK, SUM) Ph2

dinaciclib (pan CDK, MRK) Ph3 terminated

voruciclib (CDK4/6/9, MEIP) Ph1 data

SY1365 (CDK7, SYRS) Ph1 data

Mcl-1 inhibitors: S64315 (Ph1b ven combo AML); AMG176 (FiH); AZD5991 (FiH).

* Source: Cyclacel data on file.

7-10% of all breast cancers are HR deficient*

Preclinical evidence of synergy for PARPi + sapacitabine*

Efficacy: durable, multi-year, CR, PR, SD in BRCA +ve breast, ovarian and pancreatic cancers (n=76, ASCO 2016)

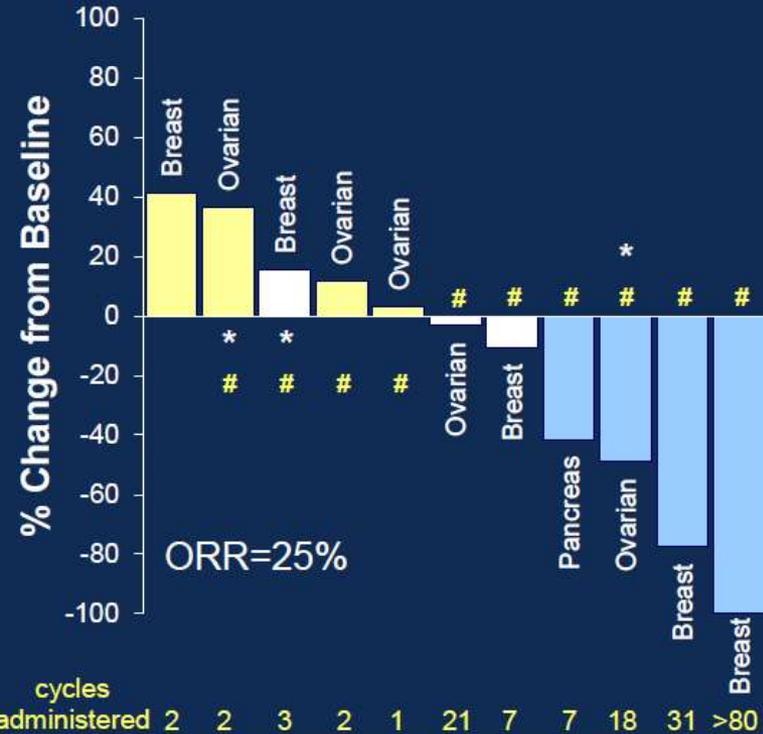
Oral combination of **olaparib (Lynparza®) + sapacitabine**

Dana Farber IST ongoing (AstraZeneca/Cyclacel clinical supply)

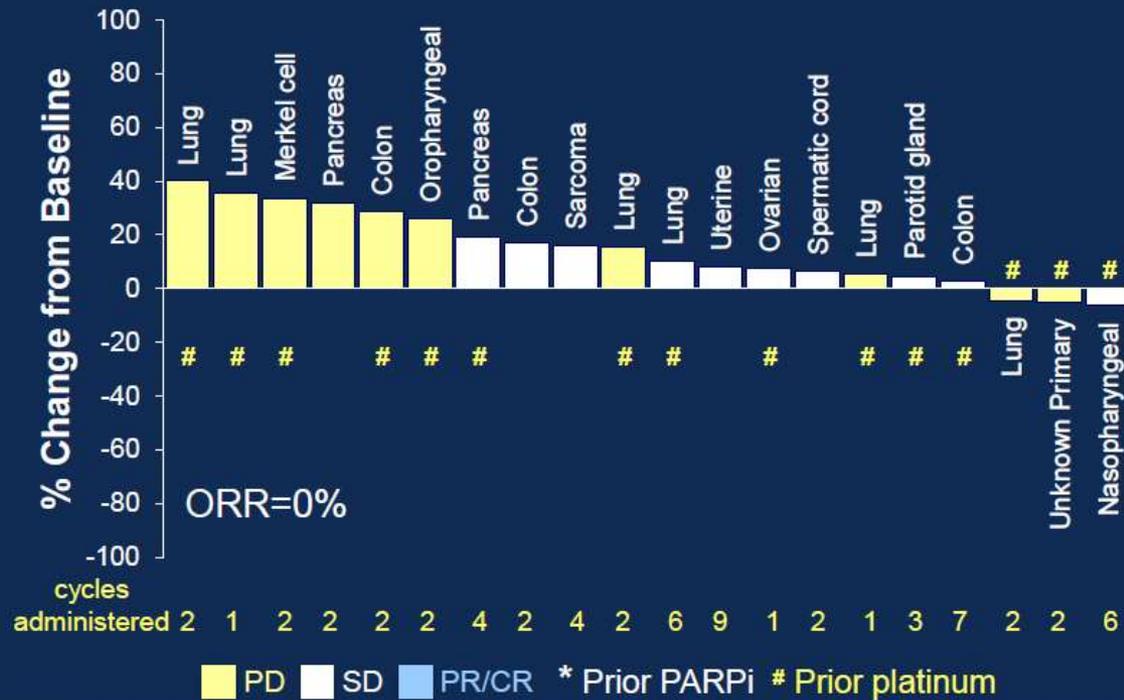
* Source: Heeke A, et al, ASCO 2017. Liu et al Mol Cancer Ther 2016 16 2302; Cyclacel data on file. Lynparza® is a registered trademark of AstraZeneca.

Best Response (all cycles)

Part 1 BRCA carriers



Part 1 Non-BRCA carriers



Legend: ■ PD ■ SD ■ PR/CR * Prior PARPi # Prior platinum

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
- ✓ National regulatory consultations in various EU countries
- EU regulatory consultations to determine submissibility

Source: Cyclacel press releases and data on file.

- Up to 170 patients with single agent or combinations of:
CYC065, CYC140, sapacitabine
- Risk Sharing: MDACC assumes patient costs; Cyclacel supplies drugs and limited support
- Payments to MDACC upon First Commercial Sale in indications studied

Financial Position & Capitalization



September 30, 2018 cash & cash equivalents: \$19.0m¹

Operating cash burn (excludes non-cash items)

- ✓ 2015: ~ \$14.5m annual¹
- ✓ 2016: ~ \$10.1m annual¹
- ✓ 2017: ~ \$7.5m annual¹
- 2018: ~ \$9.4m annual²

Fully diluted shares: ~ 20.0 million^{1,3}

No debt

1. 10 K, 10 Q
2. Company estimate
3. Common stock outstanding 12.0m

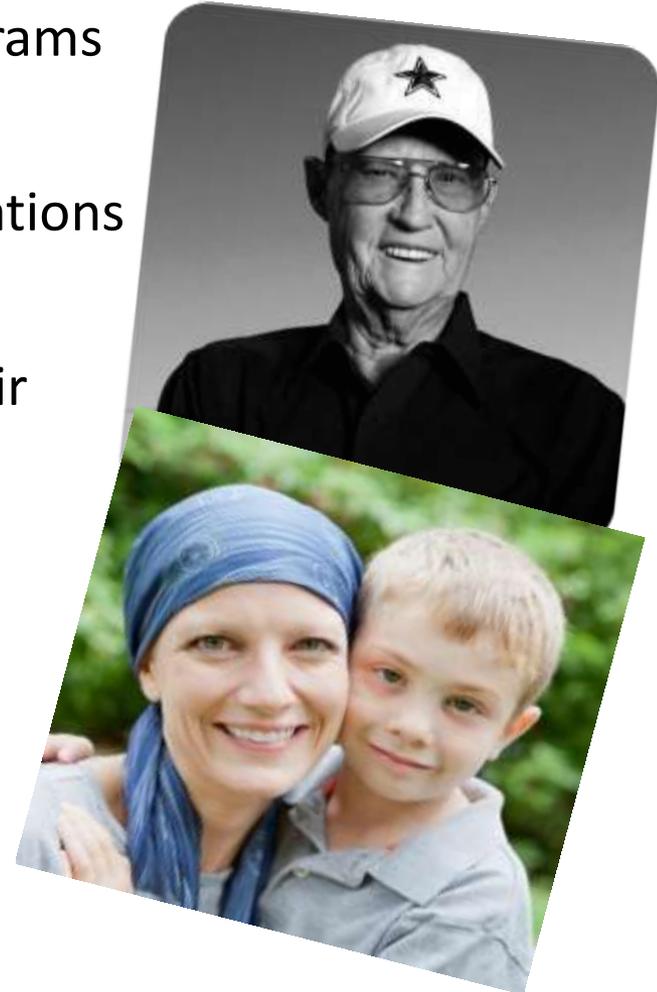
Key Milestones



- CYC065 + venetoclax Ph 1 data in R/R CLL & AML
- Evaluate bioequivalence of oral CYC065 to i.v. formulation
- Data from Ph 1 extension study of sapacitabine-based regimen in BRCA mutant breast cancer
- Sapacitabine + olaparib combination Ph 1b/2 IST data in BRCA +ve patients with breast cancer
- CYC140 Phase 1 First-in-Human study data
- Determine regulatory submissibility of sapacitabine in AML

Investment Thesis

- Clinical stage, state-of-the-art oncology programs
- Targeting molecularly-defined patient populations
- Overcome cancer cell resistance & DNA repair
- CDK inhibitors: validated drug class
- Competitively positioned
- Significant market opportunities



THANK YOU

Cyclacel Pharmaceuticals, Inc.

200 Connell Drive #1500
Berkeley Heights, NJ 07922
+1 (908) 517 7330

Contact: ir@cyclacel.com