



TARGETING CANCER

New Science. New Cancer Therapies. New Hope.

Company Overview – July 2020

FORWARD LOOKING STATEMENTS

This presentation includes forward-looking statements (including within the meaning of §21E of the U.S. Securities Exchange Act of 1934, as amended, and § 27A of the U.S. Securities Act of 1933, as amended). Forward looking statements, which generally include statements regarding goals, plans, intentions and expectations, are based upon current beliefs and assumptions of Oncternal Therapeutics, Inc. (“Oncternal,” or the “Company”) and are not guarantees of future performance. Statements that are not historical facts are forward-looking statements, and include statements regarding the expected timing for achieving key milestones, including completing and announcing results of clinical trials of the Company’s product candidates, the anticipated market potential, duration of patent coverage, ability to obtain and maintain favorable regulatory designations and, potentially, accelerated approval pathways for the Company’s product candidates and preclinical programs, and the Company’s anticipated cash runway.

All forward looking statements are subject to risks and uncertainties, which include, but are not limited to: uncertainties associated with the clinical development and process for obtaining regulatory approval of Oncternal’s product candidates, including potential delays in the commencement, enrollment and completion of clinical trials; inherent risks involved in the commercialization of any product, if approved; the risk that results seen in a case study of one patient likely will not predict the results seen in other patients in the clinical trial; the risk that interim results of a clinical trial do not predict final results and that one or more of the clinical outcomes may materially change as patient enrollment continues, following more comprehensive reviews of the data, as follow-up on the outcome of any particular patient continues, and as more patient data become available; the risk that unforeseen adverse reactions or side effects may occur in the course of developing and testing Oncternal’s product candidates; risks associated with the COVID-19 outbreak, which may adversely impact our business and clinical trials, including delays in the enrollment of patients; the risk that the regulatory landscape that applies to the development programs for Company’s product candidates may change over time; the risk that competitors may develop technologies or product candidates more rapidly than Oncternal, or that are more effective than Oncternal’s product candidates, which could significantly jeopardize Oncternal’s ability to develop and successfully commercialize its product candidates; the Company’s dependence on the success of its product development programs; and the risk that Oncternal may be unable to obtain sufficient additional capital to continue to advance the development of its product candidates and preclinical programs.

Except as required by applicable law, Oncternal undertakes no obligation to revise or update any forward-looking statement. All forward-looking statements in this presentation are current only as of the date on which the statements were made. Additional factors that could cause actual results to differ materially from those expressed in the forward-looking statements are discussed in reports filed with the SEC by Oncternal, including its most recent Annual Report on Form 10-K, Quarterly Report on Form 10-Q, and Current Reports on Form 8-K filed with the SEC.

Cirmtuzumab, TK216 and Oncternal’s CAR-T targeting ROR-1 are investigational product candidates or preclinical programs that have not been approved by the U.S. Food and Drug Administration for any indication.

THREE NOVEL ONCOLOGY PRODUCT CANDIDATES IN DEVELOPMENT

TK216: TARGETED ETS INHIBITOR

- Deep partial responses observed in two patients in Ewing sarcoma Phase 1
- Additional opportunities in other cancers with ETS alterations

CIRMTUZUMAB: ROR1 INHIBITORY MONOCLONAL ANTIBODY

- Enrollment in Phase 2 study of cirmtuzumab plus ibrutinib in MCL expanded based on encouraging interim ASCO results
- Meeting with FDA requested to discuss potential accelerated approval pathway
- Ongoing clinical studies in CLL and breast cancer, and preclinical studies in additional cancer indications

ROR1 CAR-T: PRECLINICAL DEVELOPMENT WITH CIRM AND SHANGHAI PHARMA

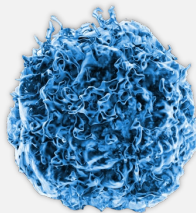
- Potential to improve on CAR-T efficacy and safety

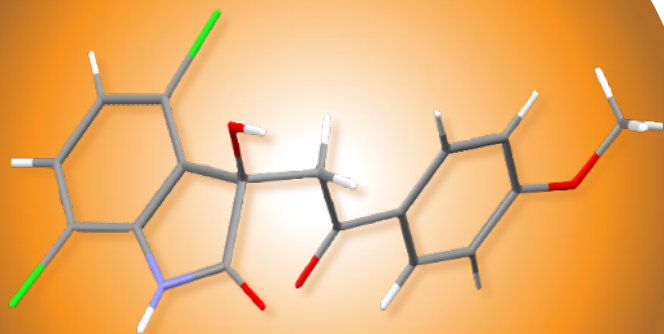
MULTIPLE DATA CATALYSTS EXPECTED IN NEXT 12 MONTHS

- Clinical data updates expected in Ewing sarcoma, MCL, CLL and breast cancer
- ROR1 CAR-T expected to reach clinic in 2021 in China

EXPERIENCED MANAGEMENT AND BOARD OF DIRECTORS

Robust Pipeline – Novel Product Candidates in Multiple Indications

Product Candidate	Indication	Preclinical	Phase 1	Phase 2	Phase 3	Modality
Cirmtuzumab	Mantle Cell Lymphoma (MCL)					 <i>ROR1 mAb</i>
	Chronic Lymphocytic Leukemia (CLL)					
	Breast Cancer					
TK216	Ewing Sarcoma					 <i>ETS oncoprotein inhibitor</i>
	Acute Myeloid Leukemia (AML)					
	Prostate Cancer					
ROR1 CAR-T	Heme Cancers					 <i>ROR1 CAR-T cell therapy</i>
	Solid Tumors					



TK216

**Targeted ETS
Oncoprotein Inhibitor**

OPPORTUNITY

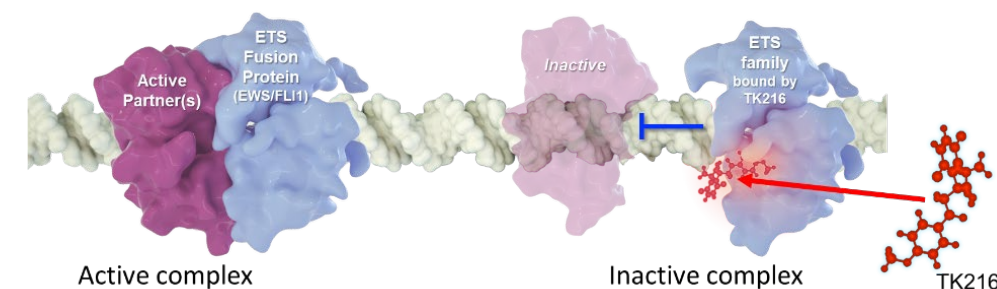
- Fast-to-market strategy in Ewing sarcoma
 - Potentially Pediatric Voucher eligible
- Significant market potential in other cancers with ETS alterations
 - AML, prostate cancer, DLBCL
- Patent coverage through 2037

MECHANISM OF ACTION

- Novel small molecule inhibitor of ETS family oncoproteins
 - Designed to prevent/disrupt formation of transcriptionally-active protein complex
- ETS transcription factors regulate many target genes implicated in cancer development and progression

DEVELOPMENT STATUS

- Enrolling expansion cohort, Phase 1 clinical trial (n=18) in relapsed/refractory Ewing sarcoma
- Orphan Drug Designation and Fast Track Status granted by FDA

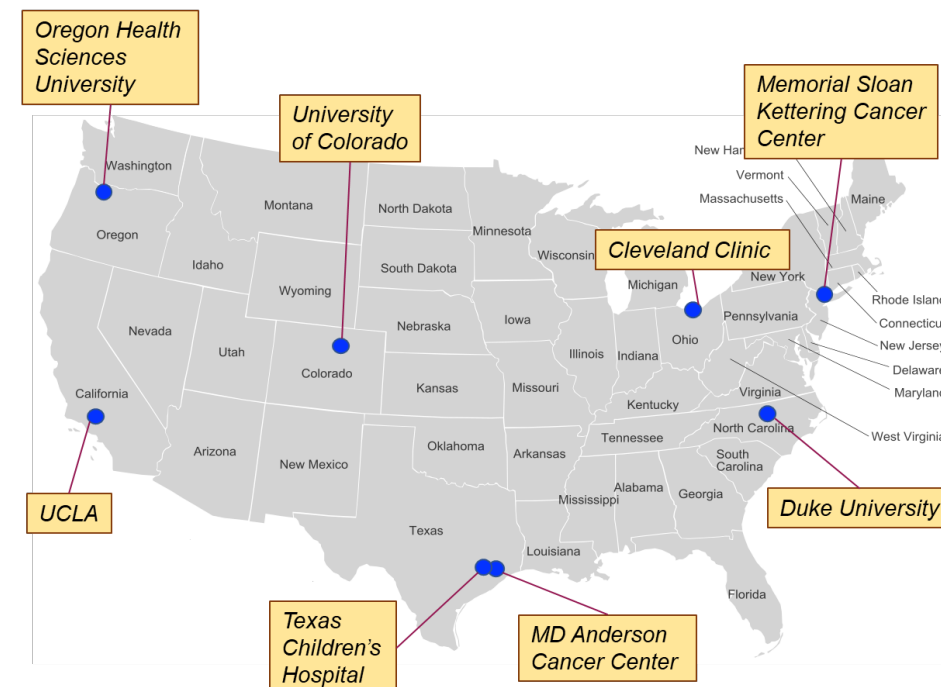


ETS = E26 Transformation-Specific
oncogene family

Phase 1 Study of TK216 in Patients with Relapsed / Refractory Ewing Sarcoma

Early Evidence of Clinical Activity, Enrolling Expansion Cohort

- 3+3 dose and schedule escalation cohorts completed
 - 32 evaluable patients with relapsed, refractory Ewing sarcoma
 - Average of 4 prior therapies
- Safety: generally well-tolerated, with dose limiting toxicity of manageable myelosuppression and no obvious off-target toxicity
- PK: drug plasma levels met or exceeded those associated with anti-cancer activity in preclinical models
- Activity: Phase 2 dose demonstrated early evidence of activity
 - Seven evaluable patients¹
 - One surgical CR, one very good PR (90% tumor shrinkage), 2 SD, 3 PD²
- Eighteen patients planned to be enrolled in expansion cohort using Phase 2 dosing regimen
 - TK216 200 mg/m²/day for 14 days + vincristine 0.75 mg/m² day 1



1 Three patients in final dose-finding cohort, 4 patients in expansion cohort. Two patients had PD early in the first treatment cycle, were not evaluable per protocol and were replaced.

2 CR, complete response; PR, partial response; SD, stable disease; PD, progressive disease

First Sustained Clinical Response with TK216 in Patient with Extensively Treated Metastatic Relapsed / Refractory Ewing Sarcoma

- 19-year old male
- Presented in 2015 with metastatic Ewing sarcoma involving his clavicle and lungs
- Failed numerous treatments:
 - radiation
 - VDC/IE: vincristine, doxorubicin, cyclophosphamide, ifosfamide, etoposide
 - irinotecan
 - temozolomide
 - bevacizumab
 - pazopanib
- Enrolled in Phase 1 study of TK216 at MSKCC in 2019
- Received TK216 in final, highest dose-finding dosage cohort (200 mg/m²/day TK216 for 14 days)
- After two cycles of **single-agent** TK216: resolution of all target pulmonary metastases
 - Treatment well tolerated, with minimal myelosuppression
- Sustained response after 6 months of TK216
 - Vincristine added after 2nd cycle
- Residual non-target 7 mm lung lesion excised, leading to surgical complete remission
- **No evidence of disease at 12+ months on study**

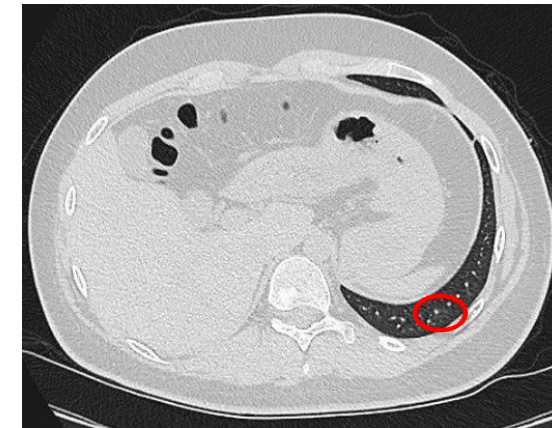


Baseline

2 cycles single agent TK216



Target lesions resolved



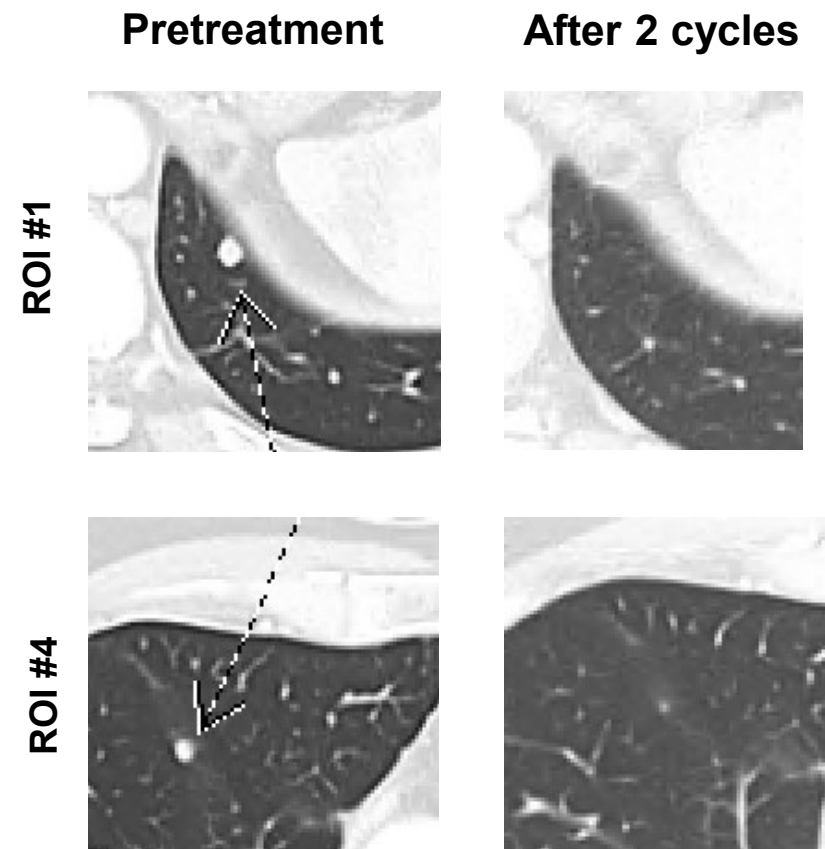
Meyers 2019 CTOS and data cutoff 3/26/20
MSKCC = Memorial Sloan Kettering Cancer Center

Second Clinical Response with TK216

Patient with Heavily Treated Metastatic R/R Ewing Sarcoma

- **Patient:** 51-year-old with Ewing sarcoma diagnosed June 2018
 - Chest CT: 10-cm tumor near the right kidney and multiple lung metastases
- **Extensive Initial Treatment:**
 - Chemo: Vincristine/doxorubicin and ifosfamide (VAI) x10, high-dose ifosfamide x1 (Further systemic therapy was stopped due to marrow toxicity)
 - Surgery: Right nephrectomy and vascular reconstruction
- **Recurrence:** Multiple new & enlarging lung lesions
- **TK216:** Enrolled on TK216 study January 2020
 - TK216 200 mg/m²/day for 14 days + vincristine 0.75 mg/m² day 1
 - Myelosuppression in Cycle 1, did not recur in Cycle 2 with growth factor support, without TK216 dose reduction
- **Tumor Response:** Partial Response (PR)

After 2 cycles, 90% reduction of target lesions and resolution of non target lesions (Sum of longest diameters of target lesions: 20mm → 2mm)
- **Treatment ongoing**



Pre-treatment: each lesion 10 mm
Post-treatment: one lesion 0 mm,
one lesion 2 mm

Data Cutoff 3/26/20

Unmet Medical Need

Relapsed / Refractory Ewing Sarcoma

- Orphan disease, second most common pediatric bone tumor
 - U.S. incidence ~430 p.a.⁽¹⁾
 - U.S. prevalence ~4,000⁽¹⁾
- Median age at diagnosis 15 years
- No standard second-line treatment and poor prognosis
 - Metastatic EWS: 5-year OS ~30%
 - Recurrent EWS: 5-year OS ~10-15%
- Nearly all Ewing sarcoma driven by translocations of ETS family oncogenes (EWS-FLI1 85-90%, EWS-ERG ~10%)
 - ETS transcription factors regulate many genes implicated in cancer development and progression

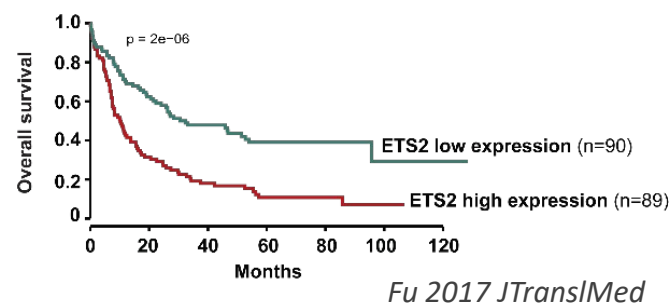


ETS = E26 Transformation-Specific oncogene family

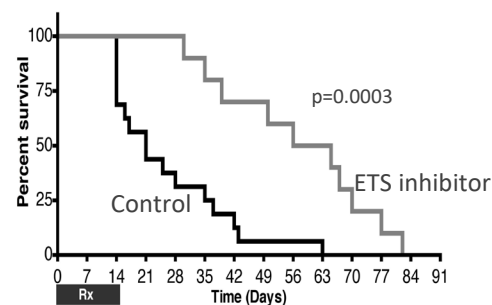
(1) Incidence 1.3 per million, prevalence 12 per million – SEER data “ICD-0-3/WHO 2008 Ewing Tumor”, accessed January 3, 2020; NCI Ewing Sarcoma Treatment (PDQ), accessed September 11, 2019; Company analysis

Acute Myeloid Leukemia (AML)

- ETS family proteins overexpressed in ~30% AML cases
- ETS expression is associated with shorter OS

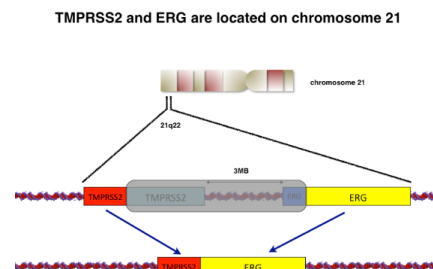


- Sensitivity of AML cell lines to TK216 was proportional to level of ETS overexpression
- ETS inhibition prolonged survival in EWS-FLI1 transgenic AML model

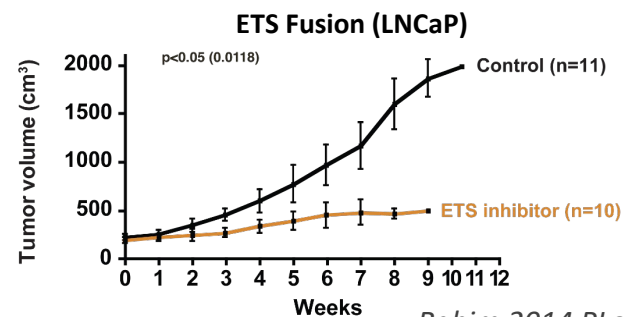


Prostate Cancer

- 55% of men with advanced prostate cancer carry ETS family gene fusion TMPRSS2-ERG associated with androgen resistance and poor clinical outcomes

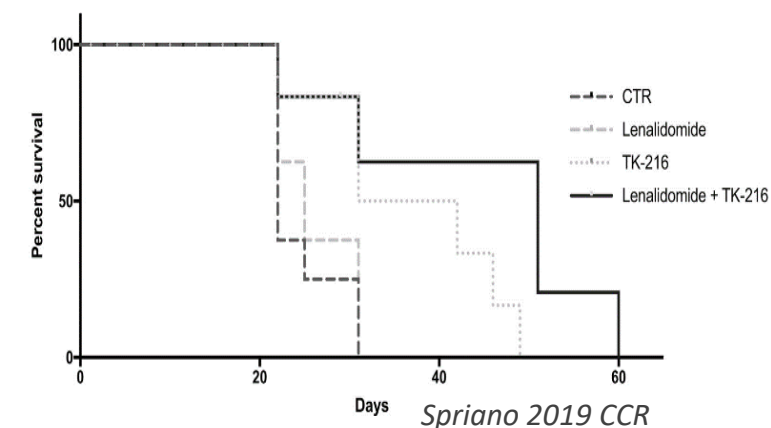


- ETS inhibition demonstrated anti-tumor activity in human prostate cancer xenograft model

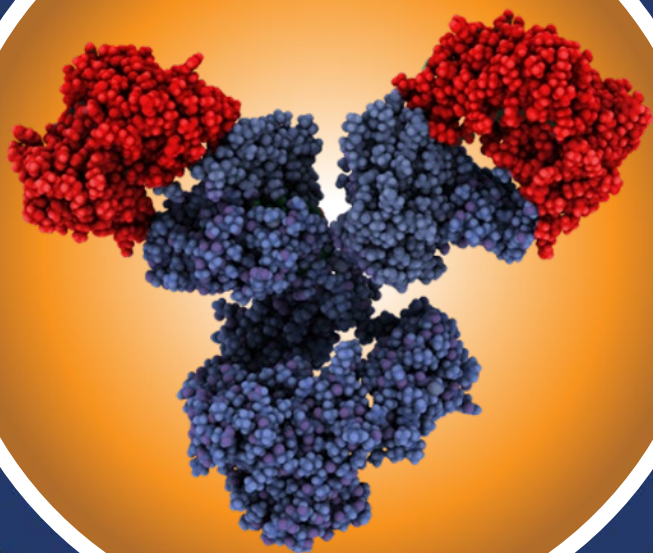


Diffuse Large B Cell Lymphoma (DLBCL)

- ETS proteins overexpressed in DLBCL
- ETS family member genes are essential for activated B-cell-like (ABC) DLBCL and germinal center B-cell type (GCB) DLBCL
- ETS inhibition demonstrated anti-tumor activity in xenograft models
- Synergy with lenalidomide and venetoclax shown in preclinical model



- Ewing sarcoma Phase 1 expansion cohort data for 12-16 patients 2H 2020
- IND-enabling data in additional ETS-driven tumors 2H 2020



CIRMTUZUMAB

ROR1 monoclonal antibody

OPPORTUNITY

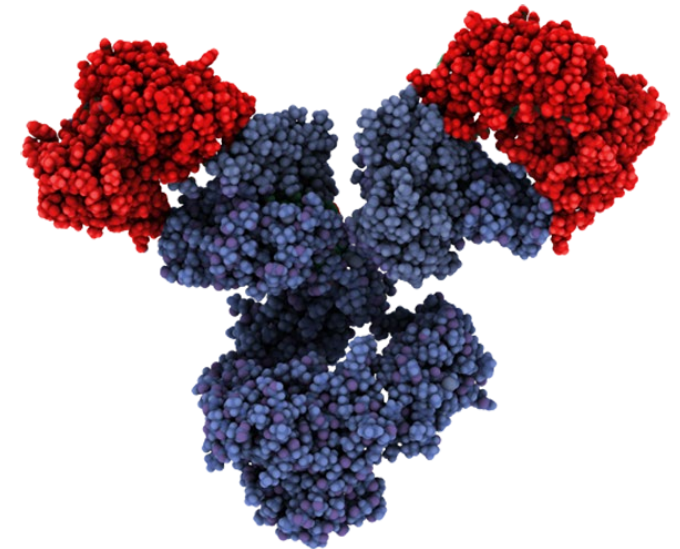
- Potential in multiple hematologic and solid cancers
- Supported by ~\$14M non-dilutive CIRM grant
- Patent coverage through 2033

MECHANISM OF ACTION

- High-affinity humanized ROR1 monoclonal antibody
- Inhibits Wnt5a stimulated ROR1 signaling
 - Decreased proliferation, invasion, metastasis, stemness
- Preclinical synergy observed with ibrutinib or paclitaxel

DEVELOPMENT STATUS

- Well-tolerated and active in completed CLL Phase 1
- Phase 2 enrolling in MCL in combination with ibrutinib
- Randomized Phase 2 enrolled in CLL in combination with ibrutinib
- Phase 1b enrolling in HER2-negative breast cancer
- Orphan Drug Designations for MCL and CLL granted by FDA



ROR1 = Receptor tyrosine kinase-like Orphan Receptor 1
CIRM = California Institute for Regenerative Medicine

Unmet Medical Need: Mantle Cell Lymphoma and Chronic Lymphocytic Leukemia

Unmet Medical Need

- While ibrutinib alone is active in MCL and CLL, patients are not cured and must continue treatment until intolerance or resistance develops:
 - MCL ibrutinib CR rate ~25%⁽¹⁾
 - CLL ibrutinib CR rate < 10%⁽²⁾
- US incidence⁽³⁾
 - MCL ~4,200 p.a.
 - CLL ~20,000 p.a.
- Average age at diagnosis
 - MCL: mid-60s⁽³⁾
 - CLL: 71⁽⁴⁾

(1) Wang 2015 Blood

(2) O'Brien 2018 Blood; CR rate at 12 months of therapy

(3) seer.cancer.gov, Dec. 2019; Leukemia and Lymphoma Society

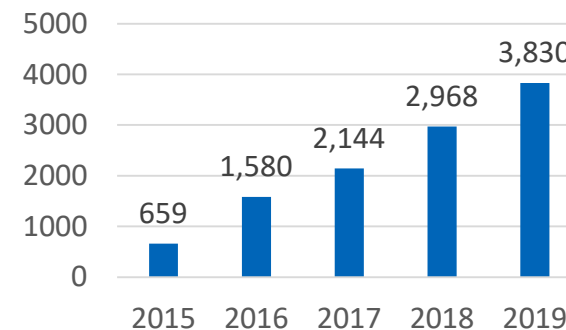
(4) cancer.net, Dec. 2019

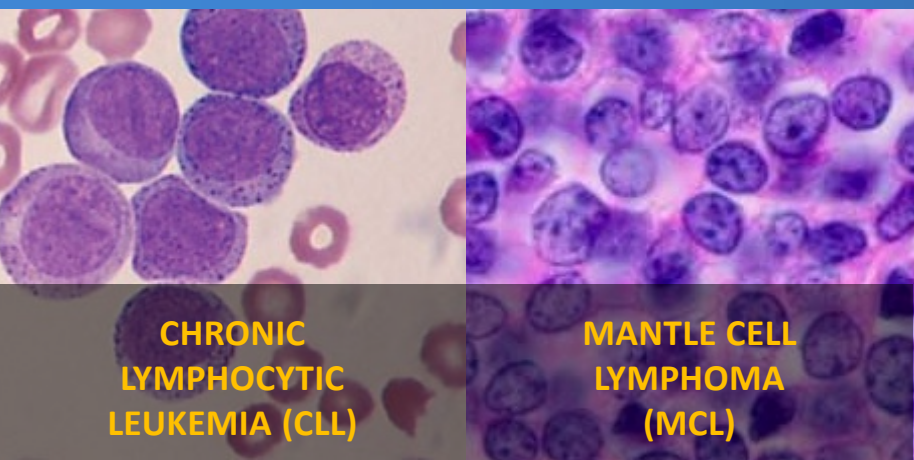
(5) AbbVie Form 10-K Feb. 2020

Cirmtuzumab + BTKi Target Product Profile

- Potential differentiation in MCL and CLL: achieve deeper and more durable responses than BTKi alone, with better tolerability or minimal added toxicity
- Become standard-of-care combination therapy for patients with MCL and CLL, particularly for patients who are older and/or have significant co-morbidities
 - Certain other combination therapies are associated with significant toxicities

Ibrutinib U.S. Sales (\$M)⁽⁵⁾

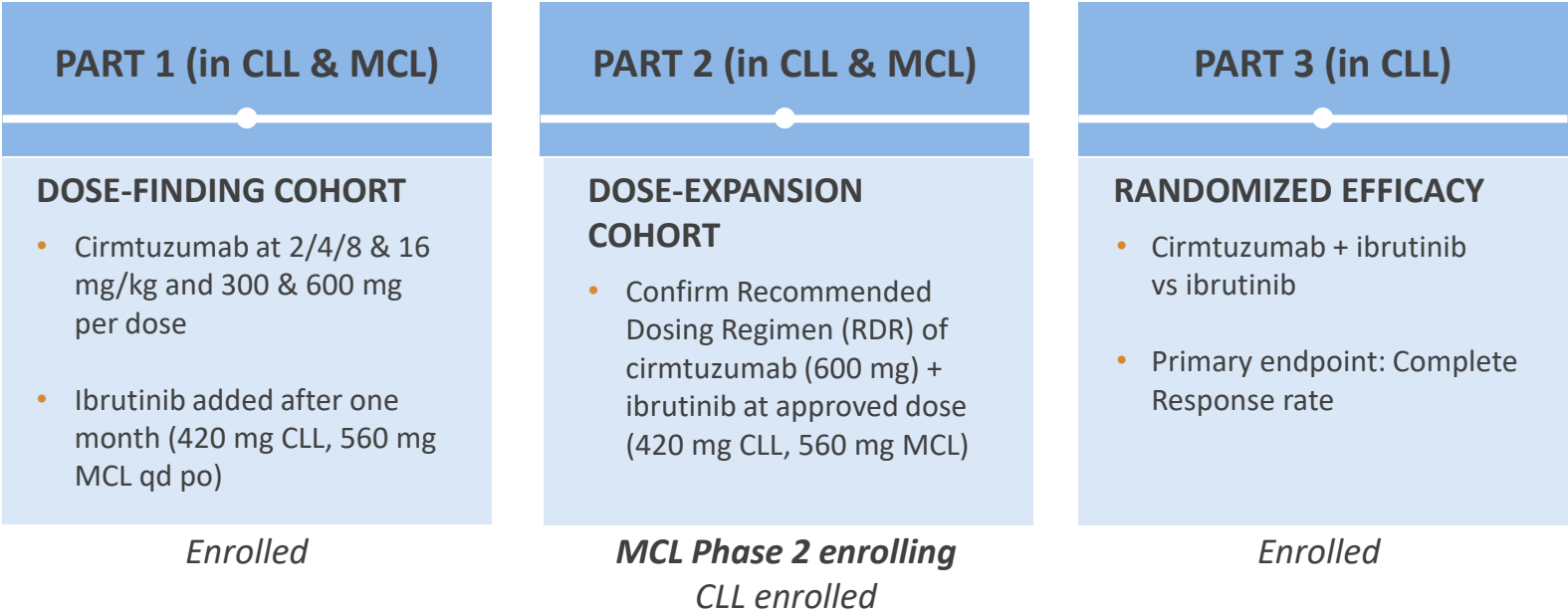




CIRLL Study:

- Cirmtuzumab and Ibrutinib targeting ROR1 for Leukemia and Lymphoma
- Meeting requested with FDA to explore potential accelerated approval pathway in MCL
- MCL enrollment recently expanded

STUDY DESIGN



CIRLL Trial Cirmtuzumab + Ibrutinib: MCL Interim Data

58% Complete Response Rate

- 12 evaluable Part 1 patients with relapsed/refractory MCL
 - Average 2.8 prior therapies (range 1-5)
 - 10 of 12 patients with ≥ 2 prior therapies
 - Auto-SCT (n=5), allo-SCT (n=1), CAR-T (n=1), ibrutinib (n=4)
 - 7 of 12 patients had high or intermediate MIPI risk score at study entry
- Efficacy: 7 CR* (**58%**), 3 PR (25%), 2 SD (17%)
 - Best ORR 83% (10 of 12)
 - Clinical Benefit (CR, PR or SD) seen in 100% of subjects
 - 4 of 7 CRs achieved within 3 months on cirmtuzumab + ibrutinib
- Of the four patients previously treated with ibrutinib, all responded to cirmtuzumab + ibrutinib (2 CRs, 2 PRs)
- Median progression-free survival (PFS) 17.5 months, at median follow-up 8.3 months
- Adverse events typical for ibrutinib alone
 - No dose limiting toxicities or discontinuations due to cirmtuzumab
 - No Grade 3 or higher common adverse events attributed to cirmtuzumab alone
- Based on ASCO 2020 results, increasing enrollment in MCL Phase 2 Expansion Cohort to at least 20 patients
 - Allow enrollment of patients with broader range of prior BTKi treatments

*One patient with CMR: Complete Metabolic Response by PET scan (Cheson2014), BM pending

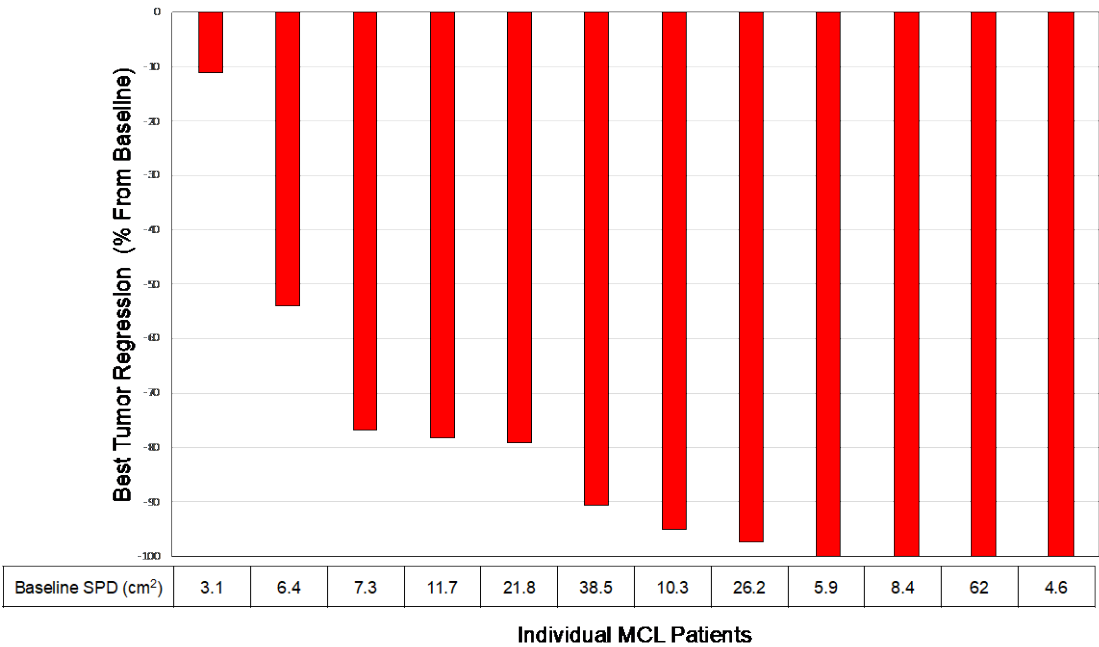
MIPI - Mantle Cell Lymphoma International Prognostic Index

Source: Lee, 2020 ASCO, data cut-off April 30, 2020

CIRLL Trial: Interim MCL Part 1 Data

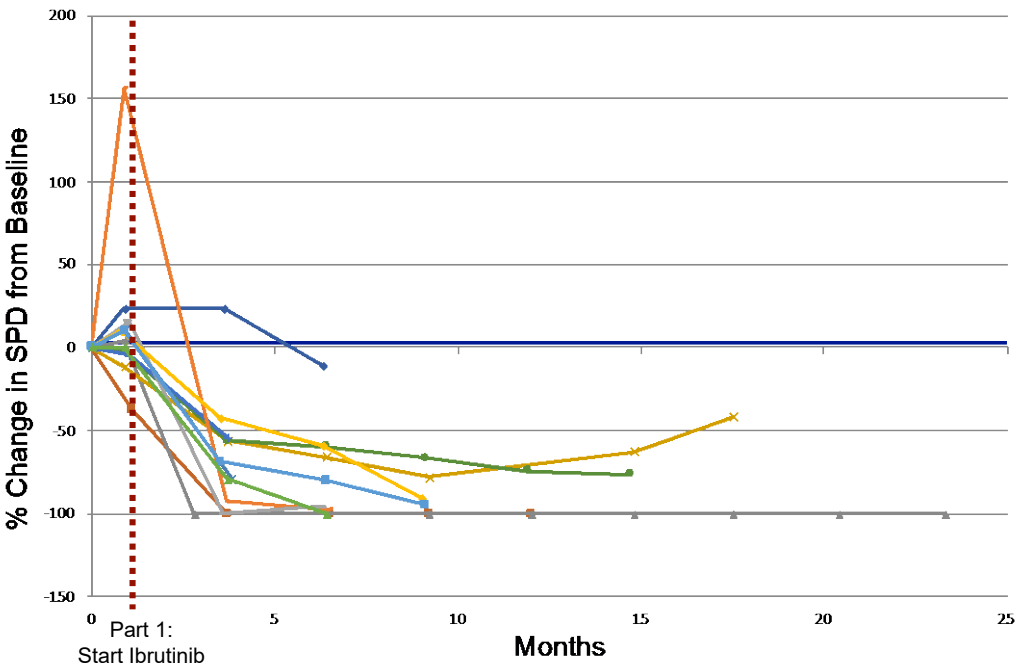
Complete Responses in Heavily Pretreated Patients

Tumor Regression:
Maximal Change in SPD From Baseline



SPD: Sum of the Products of the Diameters
CMR# Complete metabolic response (CMR) by PET scan (Cheson2014), BM biopsy indeterminant

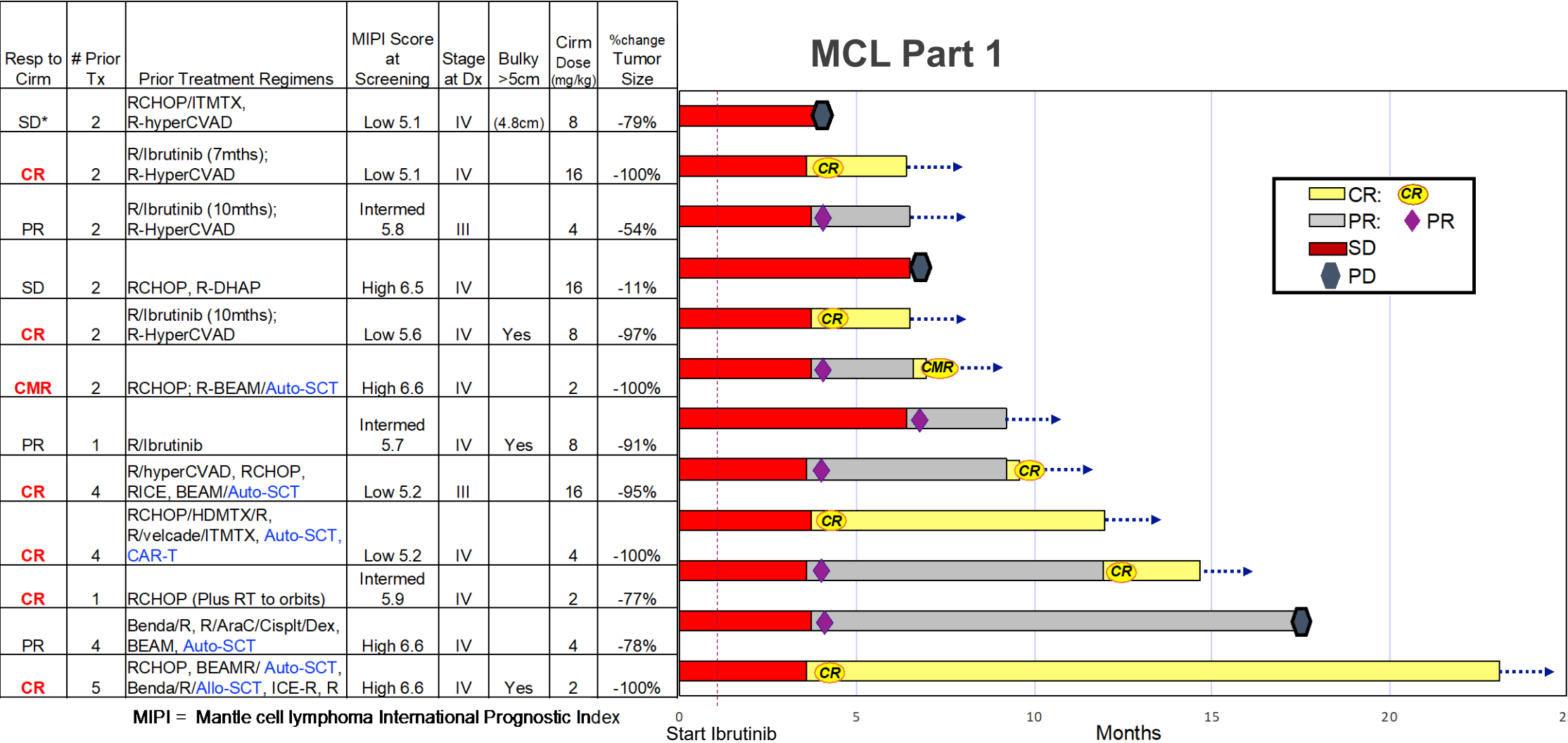
MCL: Individual % Change
in SPD From Baseline



- The majority of patients had a rapid and sustained tumor regression over time
- One patient had transient tumor growth at day 28 but then rapidly became a CR

CIRLL Trial: Interim MCL Part 1 Data

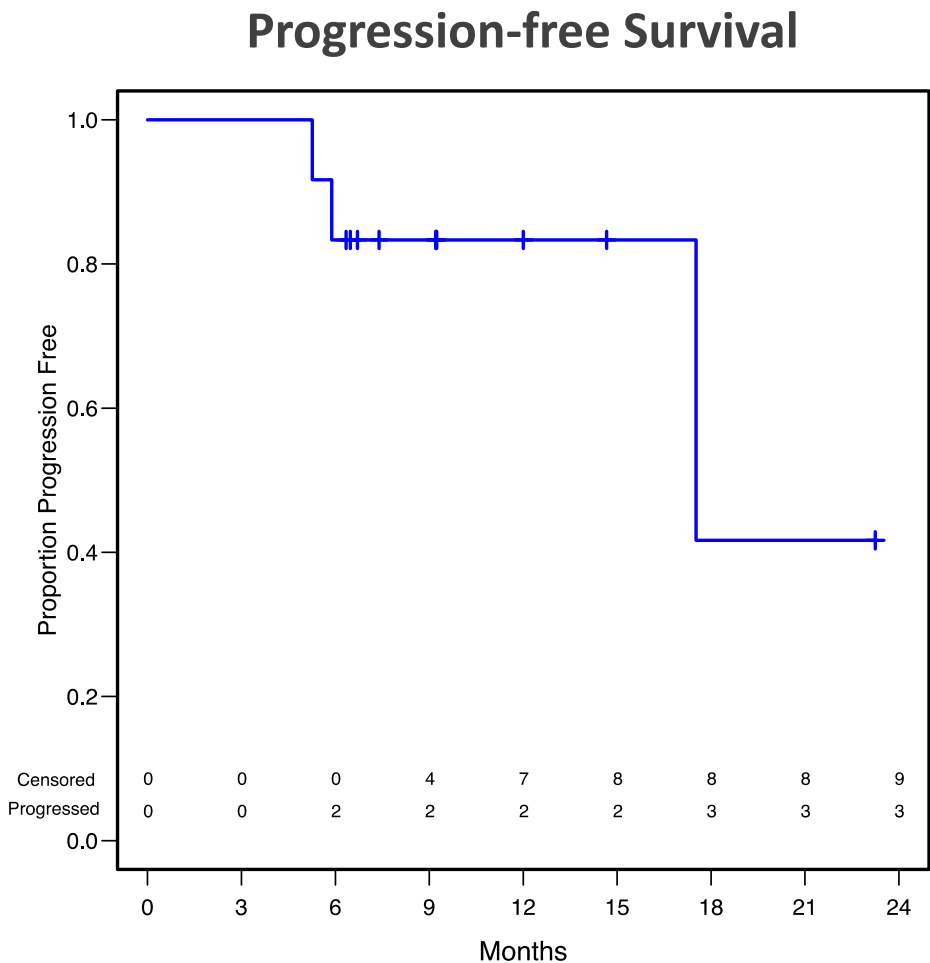
Best Tumor Response Over Time ORR = 83%, CR Rate 58%



Simon Rule Haematologica 2019: ORR 67% and CR rate 23% for ibrutinib in MCL with >1 prior lines of therapy in a pooled analysis across three third-party clinical studies

CIRLL Trial: Interim MCL Part 1 Data

Progression-free Survival



- Median PFS 17.5 months
- Median follow-up 8.3 months

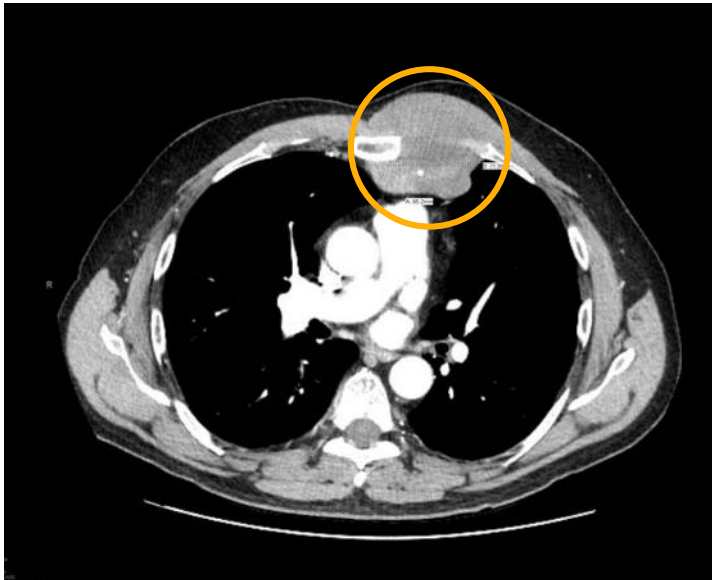
Simon Rule Haematologica 2019: PFS 10.3 months for ibrutinib in MCL with >1 prior lines of therapy in a pooled analysis across three third-party clinical studies

Patient Story: Durable Complete Response in Patient with Relapsed Mantle Cell Lymphoma in Clinical Trial of Cirmtuzumab and Ibrutinib

- 67-year old male
- Diagnosed with MCL in 2009
- Previously received and failed 5 treatment regimens including chemotherapy, biologics, autologous stem cell transplant, and allogeneic stem cell transplant before enrolling onto this study
- 9x7 cm mediastinal / chest wall lesion

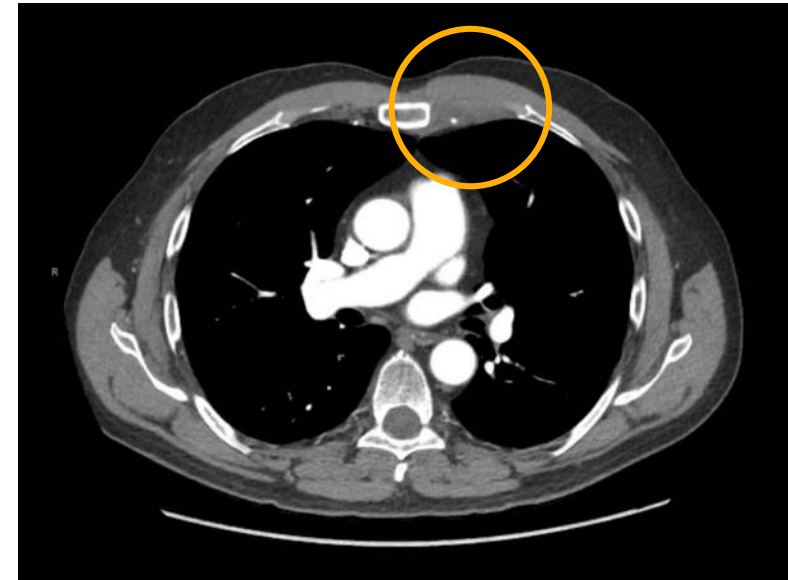
- Rapid clinical response with confirmed CR after 3 months cirmtuzumab + ibrutinib
- CR confirmed and durable at 23+ months on study

Baseline



After 3 months
→
Complete Response

Cirmtuzumab + Ibrutinib

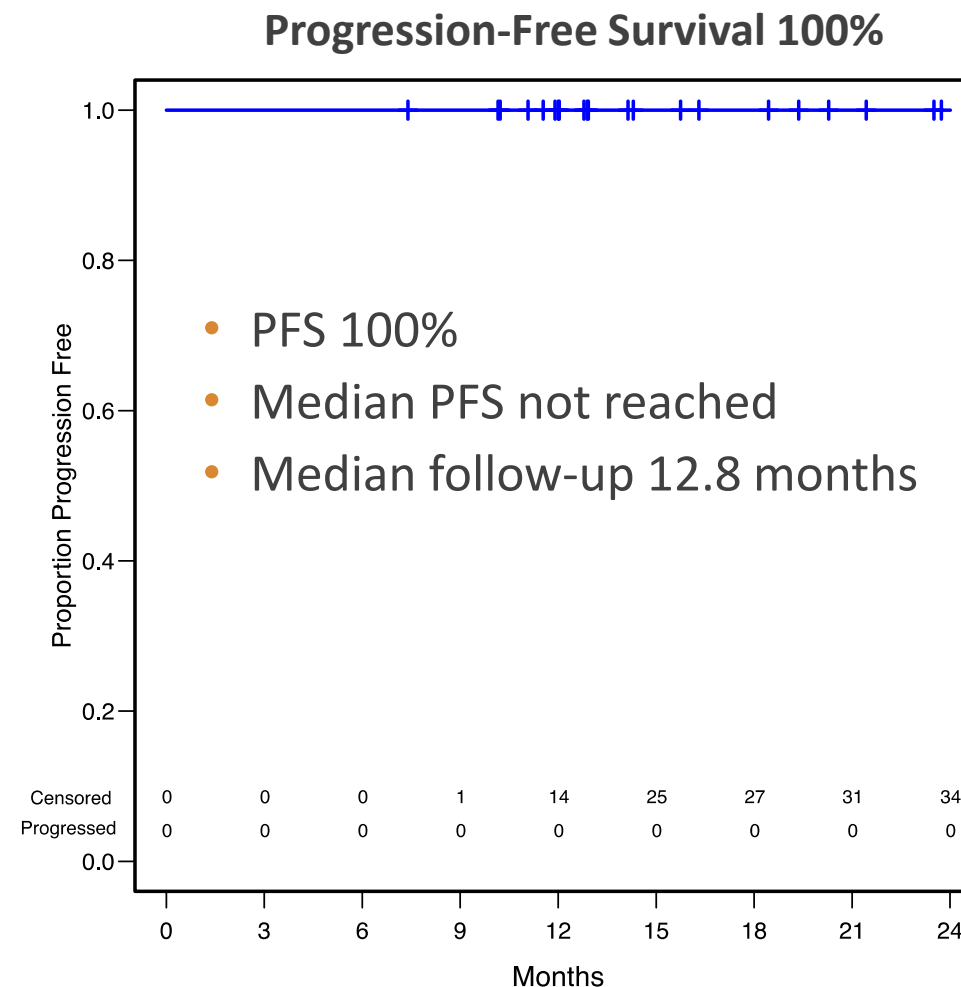


Source: Choi, 2019 ASCO and Lee, 2020 ASCO

CIRLL Trial Cirmtuzumab + Ibrutinib: CLL Interim Data

100% PFS

- 34 evaluable patients (22 relapsed/refractory, 12 treatment naïve)
 - Average 2.6 prior therapies (range 1-9) for r/r patients
- Median follow-up 12.8 months
- Efficacy: 1 CR (3%), 29 PR (85%), 4 SD (12%)
 - Best ORR 88% (30 of 34)
 - Clinical Benefit (CR, PR or SD) seen in 100% of subjects
 - No progressive disease observed on study (PFS=100%)
- Adverse events typical for ibrutinib alone
 - No dose limiting toxicities or discontinuations due to cirmtuzumab
 - No Grade 3 or higher common adverse events attributed to cirmtuzumab alone
 - Neutropenia 8.6% across CLL and MCL cohorts
 - Neutropenia 50-60% (Grade 3-4: 23%) in Imbruvica Prescribing Information
- Will limit total enrollment in randomized Phase 2 CLL cohort to ~35 patients



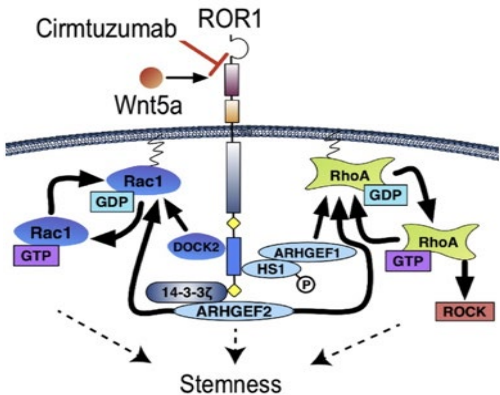
Note: 1 patient died of complications of acute cholecystitis off study without evidence of CLL progression

Strong Rationale for Treating TN Breast Cancer with Cirmtuzumab

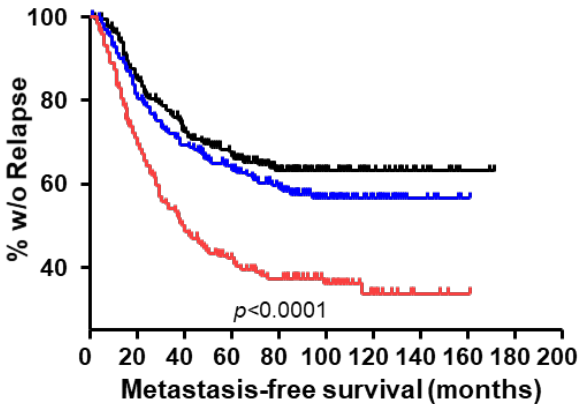
ROR1 Expressed on Multiple Solid and Liquid Tumors

MCL	95%
CLL	95%
Uterus	96%
Lymphoma	90%
Prostate	90%
Skin	89%
Pancreatic	83%
Adrenal	83%
Lung	77%
Breast	75%
Testicular	73%
Colon	57%
Ovarian	54%

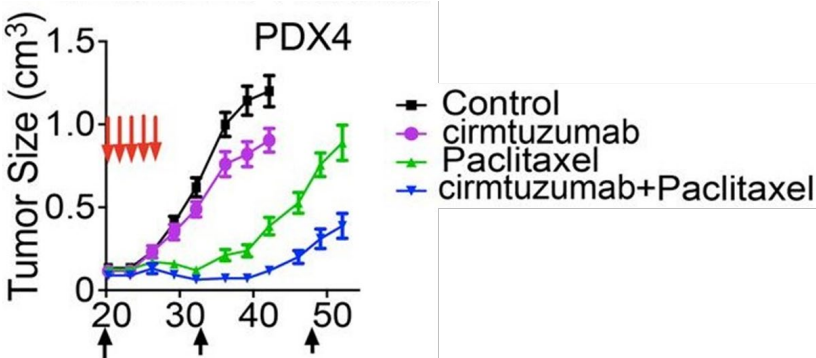
Zhang 2012 AJP



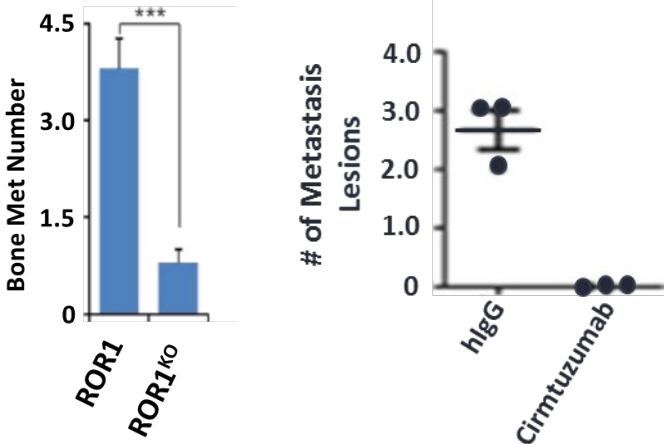
Wnt5a activation of tumor ROR1 is associated with a primitive, stem-like phenotype
Choi 2018 Cell Stem Cell



High ROR1 expression in the breast cancer primary tumor is associated with a poor long-term prognosis
Cui 2013 CaRes



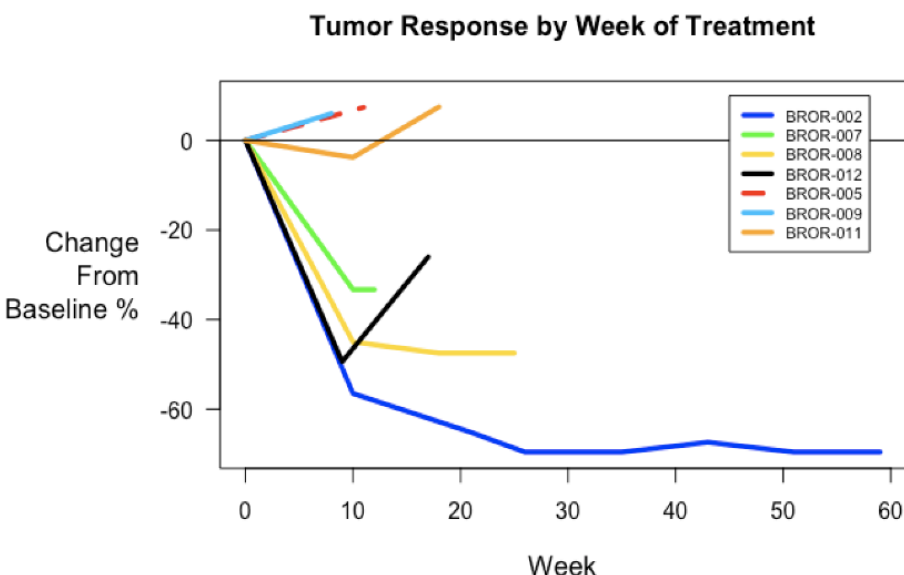
Cirmtuzumab and paclitaxel are at least additive against TNBC PDX growth, and eliminate tumor forming cells
Zhang 2019 PNAS



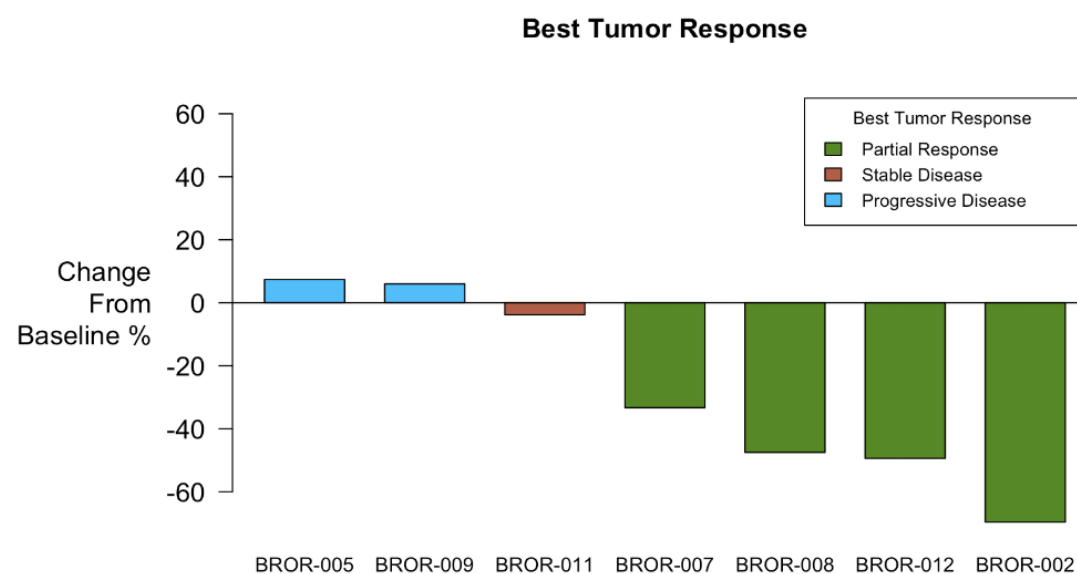
ROR1 knockout (L) or Cirmtuzumab (R) inhibit breast cancer xenograft metastases
Li 2017 Nature Cell Bio, Zhang 2019 PNAS

HER2-negative Breast Cancer: Interim Phase 1 Data Cirmtuzumab + Paclitaxel Presented at SABCS 2019: ORR 57%

% Tumor Volume Reduction by Week of Therapy



Best Tumor Volume Response by Patient ORR = 57% (4/7)



HER2-negative breast cancer

SABCS 2019 presentation of interim data

- Investigator sponsored trial at UC San Diego, Barbara Parker & Rebecca Shatsky
- Patients with HER2 negative, metastatic or locally-advanced unresectable breast cancer
- 600 mg cirmtuzumab monthly + 80 mg/m² paclitaxel weekly
- No DLTs or discontinuations
- Adverse events consistent with paclitaxel profile
- PK consistent with half-life of 30 days

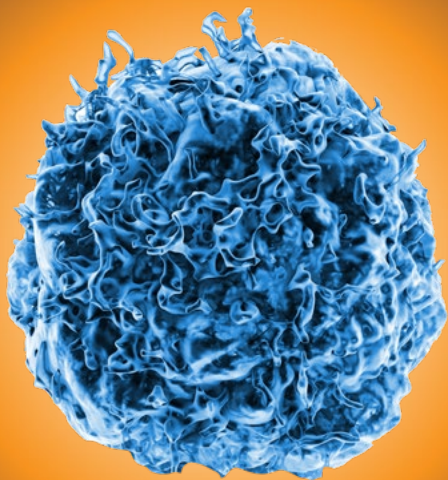
Historical reported weekly paclitaxel ORR ~30%⁽¹⁾

(1) Weekly paclitaxel ORR: 21% - Miller 2007 NEJM, 32-42% - Seidman 2008 JCO, 32% - Kim 2017 Lancet Oncol, 29% - Schmid 2019 JCO. Disclaimer: Results not based on head-to-head clinical studies. The results from historical trials not directly comparable and do not imply a clinical benefit of cirmtuzumab + paclitaxel over paclitaxel alone.

Shatsky 2019 SABCS
(data cutoff November 27, 2019)

- MCL clinical data update for ongoing Phase 1/2 4Q 2020
- CLL clinical data update for ongoing Phase 1/2 4Q 2020
- HER2-negative breast cancer clinical data update for ongoing Phase 1b 1H 2021
- IND-supporting data in additional ROR1 expressing tumors 2H 2020

FDA meeting requested to discuss potential accelerated approval pathway in MCL



CAR-T Program

Targeting ROR1

Unmet Need: Emerging CAR-T Issues

Treatment failures

- Increasing number of patient relapses following CAR-T therapy, frequently due to mutations or loss of the target antigen tumor (e.g. CD19), evading CAR-T efficacy

Safety concerns

- Persistent CAR-T safety issues including deaths potentially related to activation by normal cells expressing the target antigen



Advantages to Targeting ROR1

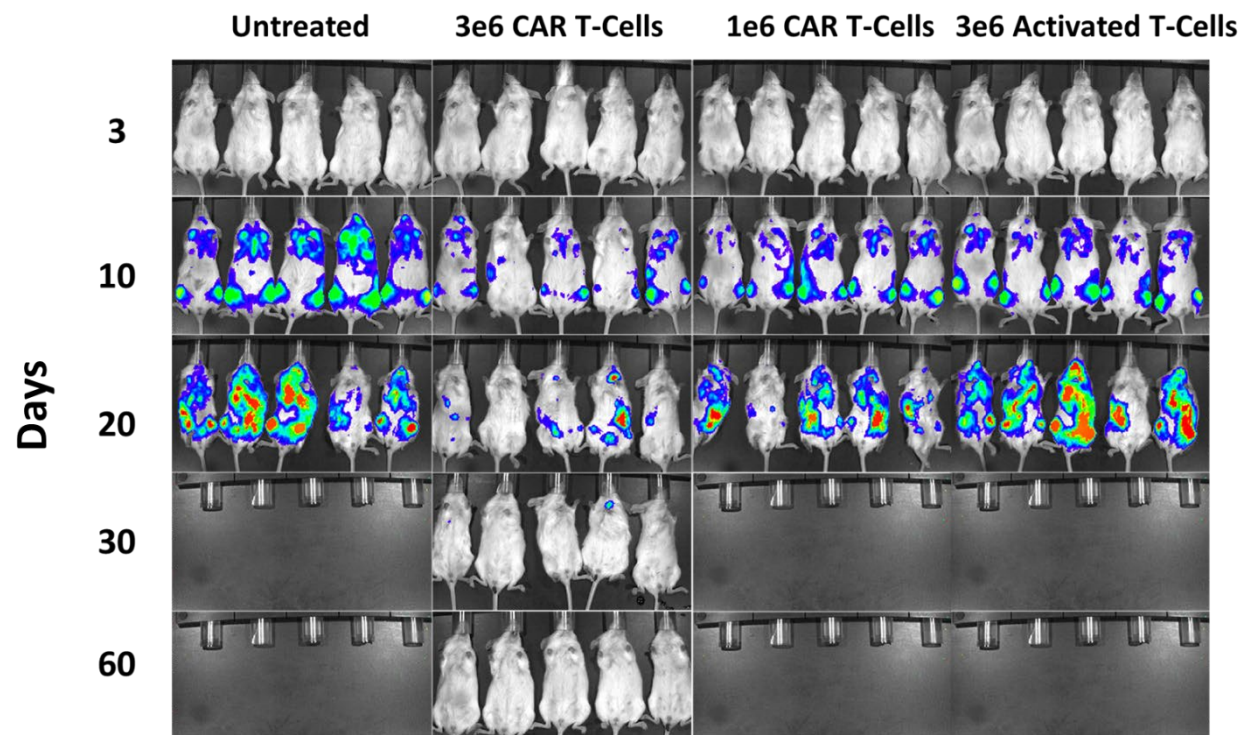
Potential for fewer antigen negative relapses

- ROR1 expression associated with aggressive tumor phenotype
- ROR1 mutation or antigen loss might render cancer cells less aggressive and susceptible to chemotherapy

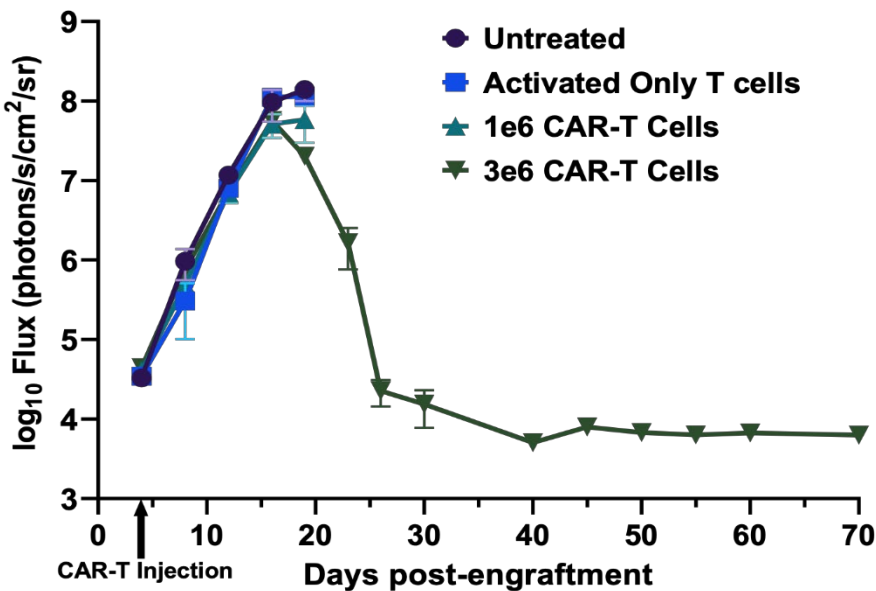
Potential safety advantages

- Cirmtuzumab did not bind to normal human tissues in GLP tissue cross-reactivity studies
- No serious adverse events related to cirmtuzumab-only reported in clinical studies

ROR1 CAR-T Cells Showed Potent Anti-tumor Activity in CLL model



Bioluminescence imaging of mice inoculated with MEC1-ROR1 cells and with ROR1 CAR T-cells. Animals treated with CAR-T cells had reduced disease burden compared to controls.



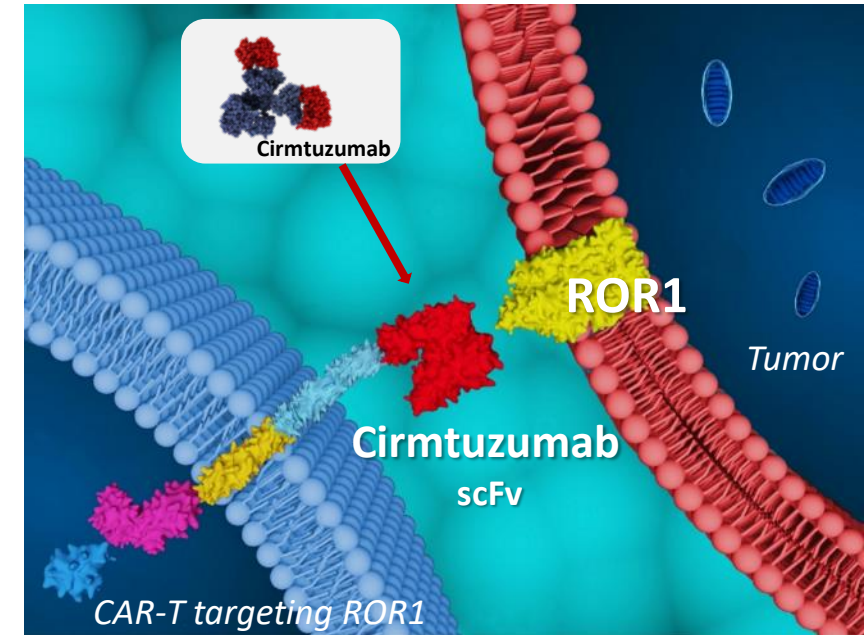
Bioluminescence imaging of MEC1-ROR1 cells following treatment with ROR1 CAR-T cells. Mice treated with 3e6 CAR-T reduced the leukemic burden to background levels by day 30 and controlled disease for remainder of study. Animals in the control groups (untreated, ATC or lower 1e6 dose) had to be sacrificed on day 20.

DEVELOPMENT STATUS

- Preclinical data in hematologic and solid tumor models
- Utilizing cirtumzumab scFv as targeting component
- Ongoing process optimization and scale-up
- UCSD collaboration with non-dilutive financing from California Institute for Regenerative Medicine (CIRM)
- Shanghai Pharma collaboration, which covers certain manufacturing and clinical development costs

OPPORTUNITY

- Selective targeting strategy applicable to multiple tumors with ROR1 expression
- Target initial human proof-of-concept in hematological cancers, then expansion into solid tumors





BUSINESS & FINANCIALS

Ticker	ONCT (Nasdaq)
Cash & Cash Equivalents @ March 31, 2020 Cash Runway into 2Q 2021	\$16.0M
Debt	\$0
Capitalization: Common Shares Outstanding ⁽¹⁾ 19.9M Options & Warrants in the Money @ 3-31-20 ⁽²⁾ 0.5M <hr/> Fully Diluted 20.4M	
Non-Dilutive Support <ul style="list-style-type: none"> CIRM Grant for CIRLL Study Ibrutinib CTM for CIRLL Study 	
	~\$14M Expanded Supply Agreement

(1) Includes 4.5M shares issued in connection with the Securities Purchase Agreements closed on May 21, 2020 and July 21, 2020

(2) Excludes out of the money options and warrants totaling 2.6M and 2.5M in warrants issued in connection with the Securities Purchase Agreements closed on May 21, 2020 and July 21, 2020

- **TK216**
 - **Ewing sarcoma** Phase 1 expansion cohort data for 12-16 patients **2H 2020**
 - IND-enabling data in additional **ETS-driven tumors** **2H 2020**
- **Cirmtuzumab**
 - **MCL** clinical data update for ongoing Phase 1/2 **4Q 2020**
 - **CLL** clinical data update for ongoing Phase 1/2 **4Q 2020**
 - **HER2-negative breast cancer** clinical data update for ongoing Phase 1b **1H 2021**
 - IND-supporting data in additional **ROR1 expressing tumors** **2H 2020**
- **ROR1 CAR-T** first-in-human dosing in China **2021**

Experienced Team



James Breitmeyer, MD, PhD
CEO, Founder, Director

Richard Vincent
CFO

Igor Bilinsky, PhD
CBO

Frank Hsu, MD
CMO

Gunnar Kaufmann, PhD
CSO

Hazel Aker
General Counsel

Raj Krishnan, PhD
SVP, Manufacturing



David Hale
Co-founder, Board Chairman

Michael Carter, MD, Ch.B., F.R.C.P.
Director

Daniel Kisner, MD
Director

Bill LaRue
Director

Xin Nakanishi, PhD
Director

Charles Theuer, MD, PhD
Director

Robert Wills, PhD
Director



THREE NOVEL ONCOLOGY PRODUCT CANDIDATES IN DEVELOPMENT

TK216: TARGETED ETS INHIBITOR

- Deep partial responses observed in two patients in Ewing sarcoma Phase 1
- Additional opportunities in other cancers with ETS alterations

CIRMTUZUMAB: ROR1 INHIBITORY MONOCLONAL ANTIBODY

- Enrollment in Phase 2 study of cirmtuzumab plus ibrutinib in MCL expanded based on encouraging interim ASCO results
- Meeting with FDA requested to discuss potential accelerated approval pathway
- Ongoing clinical studies in CLL and breast cancer, and preclinical studies in additional cancer indications

ROR1 CAR-T: PRECLINICAL DEVELOPMENT WITH CIRM AND SHANGHAI PHARMA

- Potential to improve on CAR-T efficacy and safety

MULTIPLE DATA CATALYSTS EXPECTED IN NEXT 12 MONTHS

- Clinical data updates expected in Ewing sarcoma, MCL, CLL and breast cancer
- ROR1 CAR-T expected to reach clinic in 2021 in China

EXPERIENCED MANAGEMENT AND BOARD OF DIRECTORS