



COMMITMENT TO A CURE

cellectis.com



FORWARD-LOOKING STATEMENTS

This presentation contains “forward-looking” statements that are based on our management’s current expectations and assumptions and on information currently available to management.

Forward-looking statements involve known and unknown risks, uncertainties and other factors that may cause our actual results, performance or achievements to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements.

The risks and uncertainties include, but are not limited to the risk that the preliminary results from our product candidates will not continue or be repeated, the risk that our clinical trials will not be successful. The risk of not obtaining regulatory approval to commence clinical trials on additional UCART product candidates,

the risk that any one or more of our product candidates will not be successfully developed and commercialized.

Further information on the risk factors that may affect company business and financial performance, is included in our annual report on form 20-F and the financial report (including the management report) for the year ended December 31, 2019 and subsequent filings Collectis makes with the Securities and Exchange Commission from time to time.

Except as required by law, we assume no obligation to update these forward-looking statements publicly, or to update the reasons actual results could differ materially from those anticipated in the forward-looking statements, even if new information becomes available in the future.

Collectis proprietary information. Not to be copied, distributed or used without Collectis’ prior written consent.

WRITING THE HISTORY OF ALLOGENEIC CAR T-CELLS

20 years

of expertise in
gene editing

8 years

of experience in allogeneic
CAR-T manufacturing

6 clinical trials

ongoing as of 2020;
3 Cellectis-sponsored
3 partnered

INVENTORS / PIONEERS OF GENE EDITING & ALLOGENEIC CAR T-CELLS



In 2012 . .

Mission to develop
allogeneic CAR T-cells begins

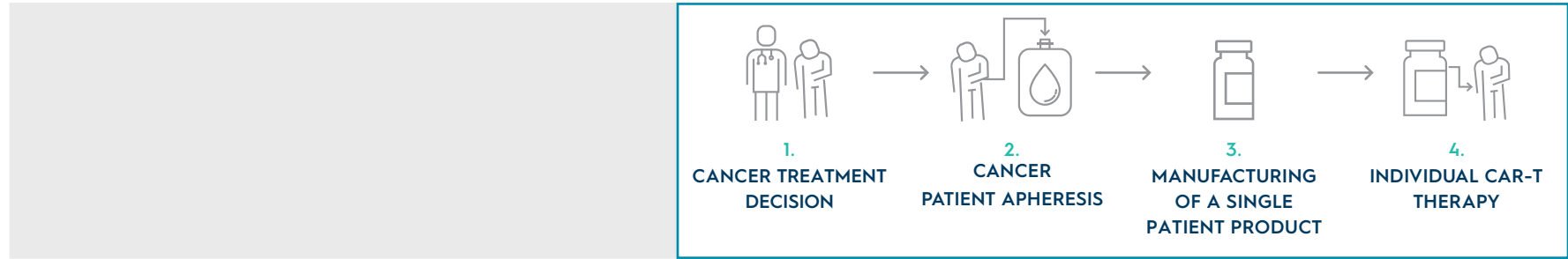
In 2015 . .

First-in-man compassionate
use of an allogeneic CAR-T
product candidate occurs

ADVANTAGES OF ALLOGENEIC VS. AUTOLOGOUS CAR-T

Autologous process:

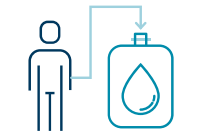
Manufacturing variability + several weeks before treatment is available



Allogeneic process:

Consistent manufacturing + quality

Immediate treatment



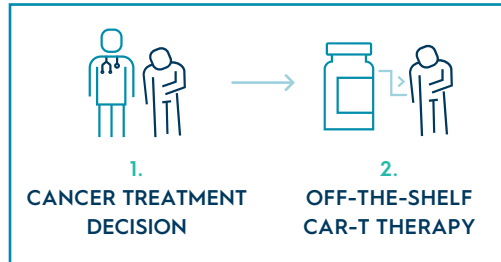
HEALTHY DONOR
APHERESIS



SCALABLE
MANUFACTURING
OF 100+
DOSES/BATCH



MASS PRODUCED
ALLOGENEIC CAR-T
THERAPIES



- TIME SAVED
- COST EFFECTIVE
- MARKET ACCESS

PARTNERSHIPS WITH INDUSTRY LEADERS

Up to \$3.2B in potential milestone payments plus royalties



Exclusive license to 15 allogeneic CAR T-Cell targets including UCARTBCMA / ALLO-715

Up To \$2.8B In Development & Sales Milestones + High Single-Digit Royalties on Sales



Exclusive license to CD19-directed allogeneic CAR T-Cells including UCART19 / ALLO-501 and ALLO-501A¹

Up To \$410M In Development & Sales Milestones + Low Double-Digit Royalties on Sales



Exclusive license agreement to use TALEN® technology to develop gene-edited TILs

Undisclosed Development & Sales Milestones + Royalties on Sales



Equity Investor

6.57% ownership in Collectis

As of December 31, 2019



¹UCART19/ALLO-501 and ALLO-501A are exclusively licensed to Servier and under a joint clinical development program between Servier and Allogene.

PIPELINE: INNOVATIVE CANCER THERAPIES FOR UNMET NEEDS



Collectis and its partners are also working on a number of other preclinical targets



1 The ALPHA study targets Diffuse Large B-Cell Lymphoma (DLBCL) and Follicular Lymphoma (FL) indications, which are subtypes of HNL
 2 We expect the pivotal phase to be the last clinical phase before commercialization
 3 UCART19/ALLO-501 is exclusively licensed to Servier and under a joint clinical development program between Servier and Allogene
 4 UCARTBCMA/ALLO-715 is exclusively licensed to Allogene from Servier

CLINICAL TRIAL: DESIGN OF PHASE 1 DOSE ESCALATION STUDIES

Primary Objectives:

**Safety and Identification
of Optimal Dose**

Secondary Objectives:

**Efficacy and Correlative
Studies**

Dose Escalation:

Optimal dose definition



DL1
2-4 patients



DL2
2-4 patients



DL3
2-4 patients



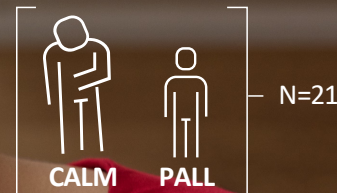
DL4
2-4 patients

*for UCART123 only as
required by FDA

DL: Dose Level

UCART19: PROOF OF CONCEPT / FIRST ALLOGENEIC CAR-T

PHASE 1 dose escalation in R/R ALL



Safety – Primary Objective

0% Grade ≥ 2 skin Graft vs Host Disease

0% Grade 3-4 neurotoxicity

14% Grade 3-4 Cytokine Release Syndrome

Efficacy – Secondary Objective

82% CR/CRi rate with optimal lymphodepletion

67% overall CR/CRi rate

71% of these patients were MRD-



Re-dosing with UCART19 resulted in cell expansion and MRD- status in 2/3 patients



Peak expansion observed mostly at Day 14

UCART123 IN ACUTE MYELOID LEUKEMIA

AML Incidence Rates & Survival Data

19,940

Estimated new cases of AML in the US for 2020

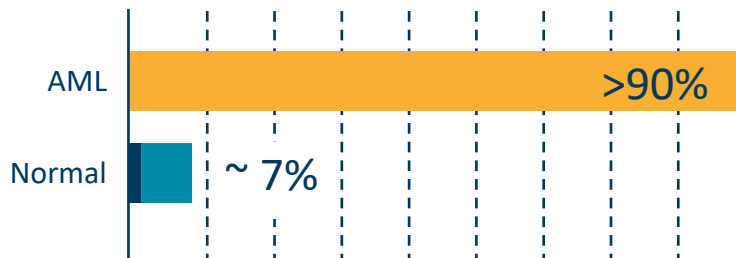
27%

5-year OS in adults




6%

5-year OS in adults >55 years old

High CD123 expression on malignant cells



Limited CD123 expression on healthy cells

-  CD123 is expressed >90% on malignant cells in AML
-  Total bone marrow cells ~ 7% CD123 positive
-  Only ~ 1% expresses the antigen at high levels

Also expressed on BPDCN and Hodgkin's lymphoma

Collectis Trial Recruitment Sites



UCART22 IN ACUTE LYMPHOBLASTIC LEUKEMIA

ALL Incidence Rates & Survival Data

6,150

Estimated new cases of ALL in the US for 2020

20%

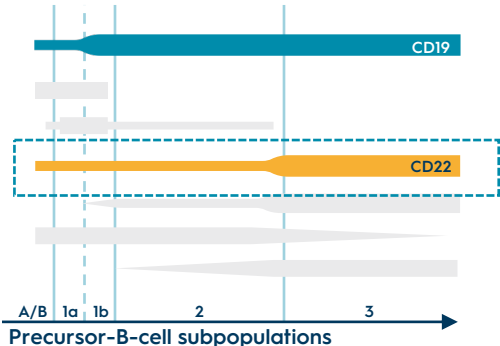
5-year OS in adults

<6

Months median disease-free survival in R/R pediatric patients

CD22 Expression in B-cells

Flow cytometric analysis of B-cell differentiation



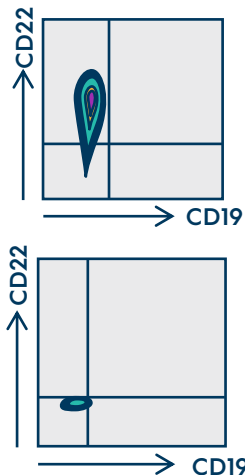
CD22 is expressed in >95% B-ALL cells

Treatment potential for CD19-negative patients

Pre-CAR



Post-CAR



Relapses following CD19-directed CAR T-cell therapy can show loss of CD19 antigen but **persistent expression of CD22**



Anti-CD22 CAR T-cells can induce remissions in **CD19 negative B-cells**

Collectis Trial Recruitment Sites



Weill Cornell
Medicine

THE UNIVERSITY OF TEXAS
MD Anderson
Cancer Center
Making Cancer History™



THE UNIVERSITY OF
CHICAGO
MEDICINE

UCARTCS1 IN MULTIPLE MYELOMA

MM Incidence Rates & Survival Data

32,270

Estimated new cases of MM in the US for 2020

43-83

Months is median OS for stages 2-3

50%

5-year OS in adults

High expression on malignant cells

>95%

expression in MM cells

→ CS1 expression is **high**
and uniform on MM cells

Treatment alternative to BCMA-targeted therapies

- **Many BCMA-targeted cell therapies show relapses** after 12-14 months of treatment
- Elotuzumab, a CS1-targeting antibody, (in combination with lenalidomide and dexamethasone in R/R MM patients) shows:
5% CR rate and 45% partial remissions

Collectis Trial Recruitment Sites



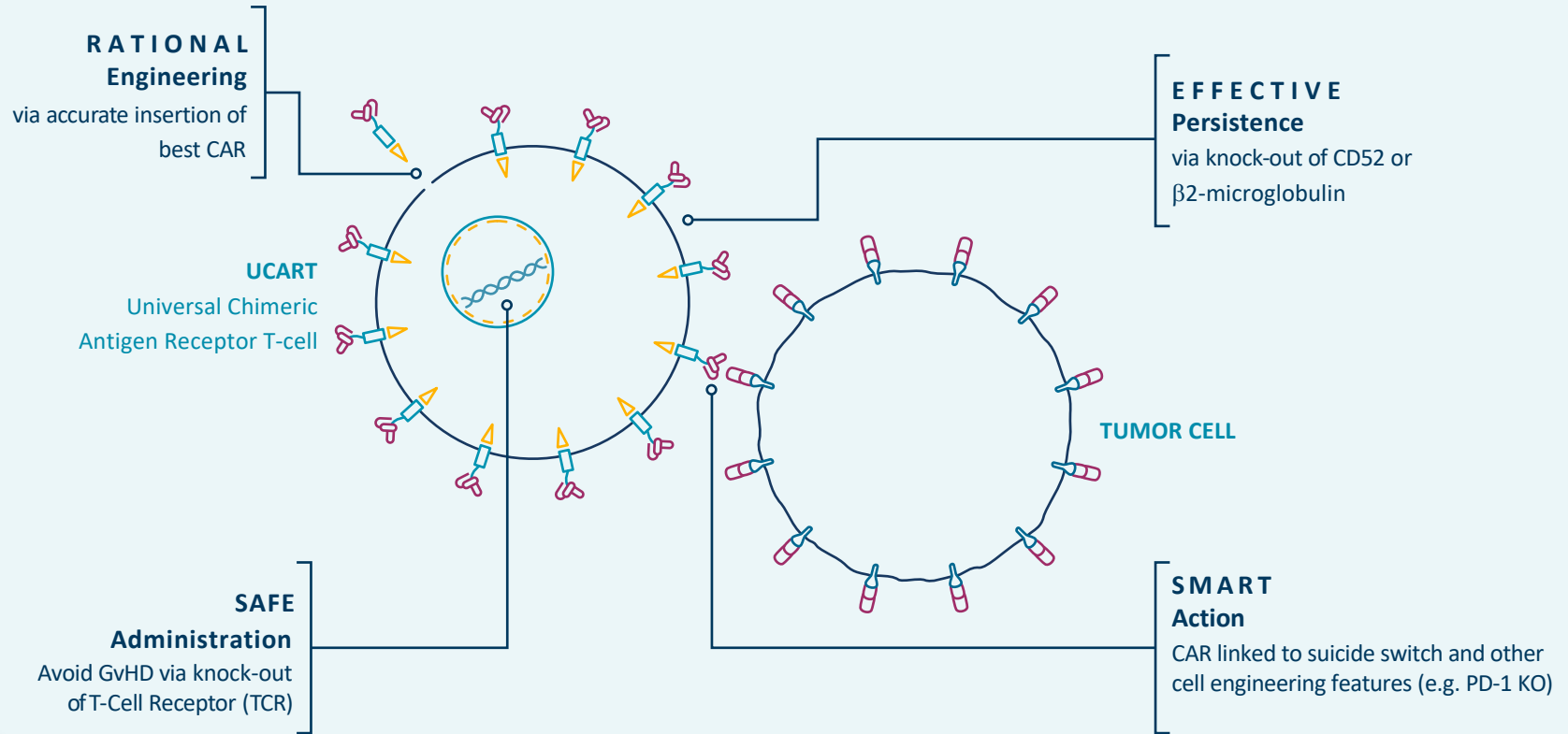
**Weill Cornell
Medicine**

THE UNIVERSITY OF TEXAS
**MD Anderson
Cancer Center**
Making Cancer History®



Hackensack
Meridian Health

UCARTs – ALLOGENEIC CAR T-CELLS THROUGH PRECISION GENE EDITING



TALEN® GENE EDITING – ADVANTAGES

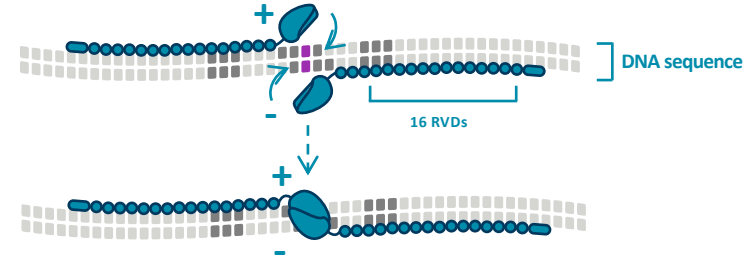
TALEN®:

Driven by protein/DNA interactions to work on potential off-site cleavage

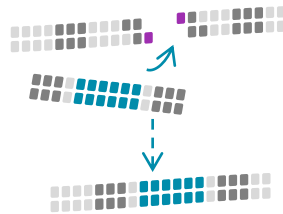
Releases DNA ends accessible to DNA repair mechanisms to perform gene insertions and corrections through homologous recombination and gene inactivation through non-homologous end joining

Over 20 years of building a strong patent portfolio with umbrella patents on gene editing

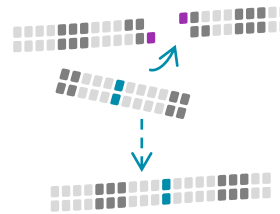
Our nucleases act like DNA scissors to edit genes at precise target sites:



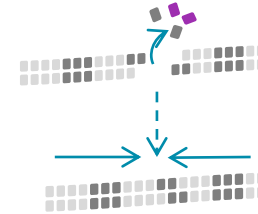
A) Gene insertion or Knock-In (KI)



B) Gene correction



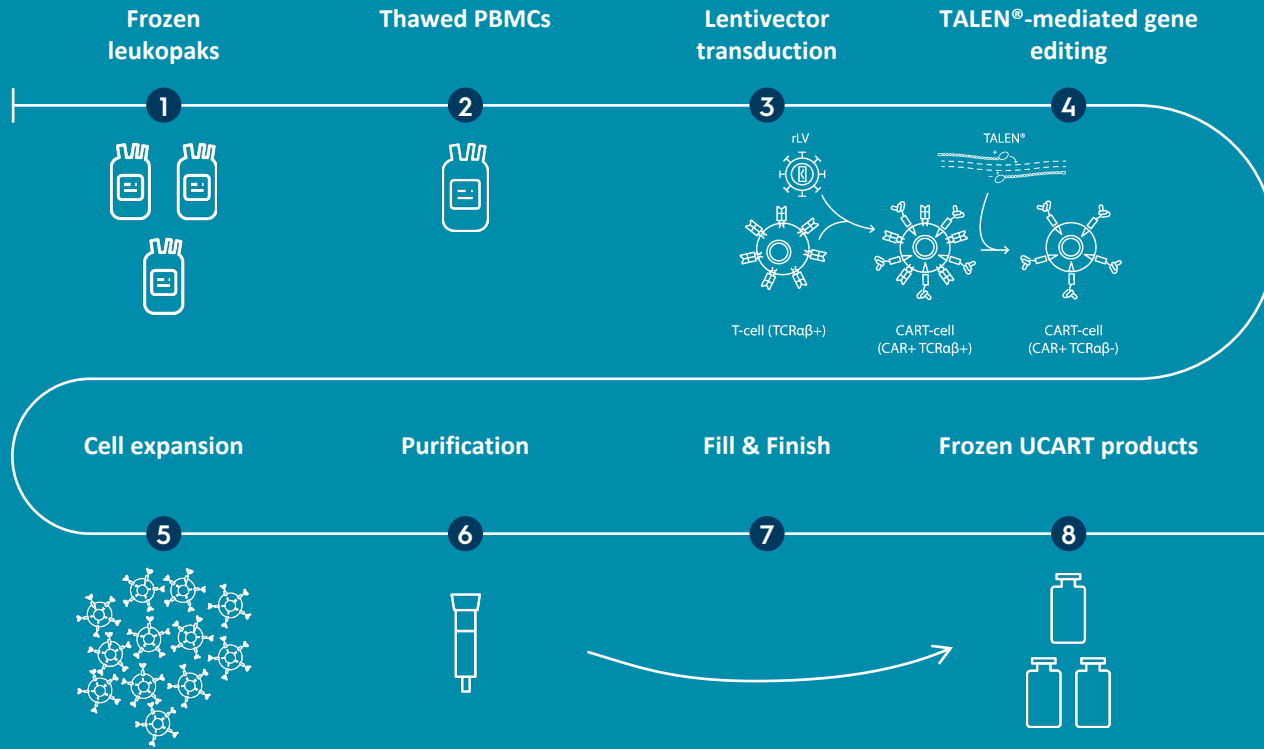
C) Gene inactivation or Knock-Out (KO)



>65% Knock-In Efficiency

96.8% Knock-Out Efficiency

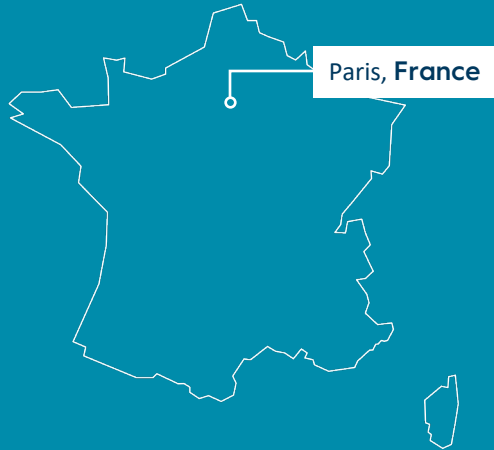
UCART MANUFACTURING



- 8 years of experience in allogeneic CAR-T manufacturing
- Validated gene editing technology for cell manufacturing
- 4 UCART product candidates manufactured so far
- Full QC system in place
- 3 wholly controlled product candidates cleared for 3 clinical trials by the U.S. FDA

IN-HOUSE MANUFACTURING

Raw materials



Clinical & Commercial UCART Product Candidates



14,000 sq ft. facility

Production of clinical starting materials

Operational "go-live" targeted in **2020**

82,000 sq ft. facility

Production of clinical & commercial UCART product candidates

Operational "go-live" targeted in **2021**

THE COLLECTIS GROUP



NASDAQ: CLLS

EURONEXT GROWTH: ALCLS

~\$304M** cash as of December 31, 2019

Expected to fund operations into 2022

Based in Paris, France, New York & Raleigh, USA

Patient focused

~68.9%* ownership



Gene editing is the link



NASDAQ: CLXT

\$60M cash as of December 31, 2019

Expected to fund operations into mid-2021

Based in Minnesota, USA

Consumer focused

High value asset



* As of December 31, 2019

** \$364M of consolidated cash, cash equivalents, current assets and restricted cash (Collectis + Calyxt)

MILESTONES

Proprietary clinical programs

UCARTCS1: Phase 1 R/R MM ongoing; first patient dosed in Q4 2019

UCART22: Phase 1 in R/R ALL ongoing; first patient dosed in Q4 2019

UCART123: Phase 1 for R/R AML ongoing; New IND granted by FDA in Q3 2019

Partnered clinical programs

UCART19: Phase 1 in R/R ALL halted due to COVID-19 crisis

UCART19 (ALLO-501): Phase 1 in R/R NHL ongoing, first patient dosed in H1 2019

UCARTBCMA (ALLO-715): Phase 1 in R/R MM ongoing, first patient dosed in H2 2019

Manufacturing

Ongoing construction of 2 in-house manufacturing plants:

Facility in Paris, France for raw material supply

Facility in Raleigh, North Carolina for GMP, commercial scale UCART manufacturing

EXPECTED MILESTONES IN 2020

Clinical programs

Provide interim clinical data on completed dose cohorts for proprietary and partnered programs at relevant scientific conferences

Manufacturing

Go-live with Paris facility

Construction complete for Raleigh facility



THANK YOU

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