



Enabling Cures with Hematopoietic Stem Cell Transplants

April 2021

CONFIDENTIAL

Safe Harbor Statement



About this Presentation

This investor presentation (this "Presentation") is for informational purposes only to assist interested parties in making their own evaluation with respect to the proposed business combination (the "Proposed Business Combination") between Amplitude Healthcare Acquisition Corp. ("AMHC") and Jasper Therapeutics, Inc. (together with its subsidiaries, "Jasper Therapeutics" or the "Company") and for no other purpose. The information contained herein does not purport to be all-inclusive and none of AMHC, the Company or their respective affiliates makes any representation or warranty, express or implied, as to the accuracy, completeness or reliability of the information contained in this Presentation. Viewers of this presentation should make their own evaluation of the Company and of the relevance and accuracy of the information and should make such other investigations as they deem necessary. This Presentation does not constitute (i) a solicitation of a proxy, consent or authorization with respect to any securities or in respect of the Proposed Business Combination or (ii) an offer to sell, a solicitation of an offer to buy, or a recommendation to purchase any security of AMHC, the Company, or any of their respective affiliates, nor shall there be any sale of securities in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such jurisdiction. No offering of securities shall be made except by means of a prospectus meeting the requirements of the U.S. Securities Act of 1933, as amended (the "Securities Act"). You should not construe the contents of this Presentation as legal, tax, accounting or investment advice or a recommendation. You should consult your own counsel and tax and financial advisors as to legal and related matters concerning the matters described herein, and, by accepting this Presentation, you confirm that you are not relying upon the information contained herein to make any decision. The distribution of this Presentation may also be restricted by law and persons into whose possession this Presentation comes should inform themselves about and observe any such restrictions. The recipient acknowledges that it is (a) aware that the United States securities laws prohibit any person who has material, non-public information concerning a company from purchasing or selling securities of such company or from communicating such information to any other person under circumstances in which it is reasonably foreseeable that such person is likely to purchase or sell such securities, and (b) familiar with the Securities Exchange Act of 1934, as amended, and the rules and regulations promulgated thereunder (collectively, the "Exchange Act"), and that the recipient will neither use, nor cause any third party to use, this Presentation or any information contained herein in contravention of the Exchange Act, including, without limitation, Rule 10b-5 thereunder. This Presentation and information contained herein constitutes confidential information and is provided to you on the condition that you agree that you will hold it in strict confidence and not reproduce, disclose, forward or distribute it in whole or in part without the prior written consent of AMHC and the Company and is intended for the recipient hereof only.

Additional Information

The Company intends to file with the SEC a proxy statement / prospectus on Form S-4 relating to the Proposed Business Combination, which will be mailed to AMHC's shareholders once definitive. This Presentation does not contain all the information that should be considered concerning the Proposed Business Combination and is not intended to form the basis of any investment decision or any other decision in respect of the Proposed Business Combination. AMHC's shareholders and other interested persons are advised to read, when available, the preliminary proxy statement / prospectus and the amendments thereto and the proxy statement / prospectus and other documents filed in connection with the Proposed Business Combination, as these materials will contain important information about the Company, AMHC and the Proposed Business Combination. When available, the proxy statement / prospectus and other relevant materials for the Proposed Business Combination will be mailed to shareholders of AMHC as of a record date to be established for voting on the Proposed Business Combination. Shareholders will also be able to obtain copies of the preliminary proxy statement / prospectus, the definitive proxy statement / prospectus and other documents filed with the SEC, without charge, once available, at the SEC's website at www.sec.gov, or by directing a request to Jasper Therapeutics at Jasper Therapeutics, Inc., 2200 Bridge Pkwy Sst #102, Redwood City, CA 94065 or to AMHC at Amplitude Healthcare Acquisition Corp., 1177 Avenue of the Americas, Fl 40, New York, NY 10036.

Participants in the Solicitation

AMHC and its directors and executive officers may be deemed participants in the solicitation of proxies from AMHC's shareholders with respect to the Proposed Business Combination. A list of the names of those directors and executive officers and a description of their interests in AMHC is contained in AMHC's Registration Statement on Form S-1, as effective on November 19, 2018, which was filed with the SEC and is available free of charge at the SEC's web site at www.sec.gov, or by directing a request to AMHC at Amplitude Healthcare Acquisition Corp., 1177 Avenue of the Americas, Fl 40, New York, NY 10036. Additional information regarding the interests of such participants will be contained in the proxy statement / prospectus for the Proposed Business Combination when available. The Company and its directors and executive officers may also be deemed to be participants in the solicitation of proxies from the shareholders of AMHC in connection with the Proposed Business Combination. A list of the names of such directors and executive officers and information regarding their interests in the Proposed Business Combination will be included in the proxy statement / prospectus for the Proposed Business Combination when available.

Private Placement

The PIPE financing described herein has not been and will not be registered under the Securities Act, or any applicable state securities laws. This Presentation is being furnished solely in reliance on applicable exemptions from the registration requirements under the Securities Act. If the Proposed Business Combination is entered into, the PIPE financing will be offered and sold only to "qualified institutional buyers" (as defined in Rule 144A under the Securities Act) and institutional "accredited investors" (as defined in Rule 501(a)(1), (2), (3) or (7) promulgated under the Securities Act) upon the consummation of the Proposed Business Combination. This presentation does not constitute an offer to sell or a solicitation of an offer to buy the securities that shall constitute the PIPE financing described herein, nor shall there be any offer, solicitation, or sale of any such securities in any jurisdiction in which such offer, solicitation, or sale would be unlawful. Before you invest you should undertake your own diligence regarding the Proposed Business Combination.

Forward-Looking Statements

This Presentation contains forward-looking statements. All statements other than statements of historical fact contained in this Presentation, including statements regarding the future financial position of Jasper Therapeutics, including financial targets, business strategy, and plans and objectives for future operations, are forward-looking statements. Jasper Therapeutics has based these forward-looking statements on its estimates and assumptions and its current expectations and projections about future events. These forward-looking statements are subject to a number of risks, uncertainties and assumptions. In light of these risks, uncertainties and assumptions, the forward-looking events and circumstances discussed in this Presentation are inherently uncertain and may not occur, and actual results could differ materially and adversely from those anticipated or implied in the forward-looking statements. Accordingly, you should not rely upon forward-looking statements as predictions of future events. Jasper Therapeutics undertakes no obligation to update publicly or revise any forward-looking statements for any reason after the date of this Presentation or to conform these statements to actual results or to changes in Jasper Therapeutics' expectations.

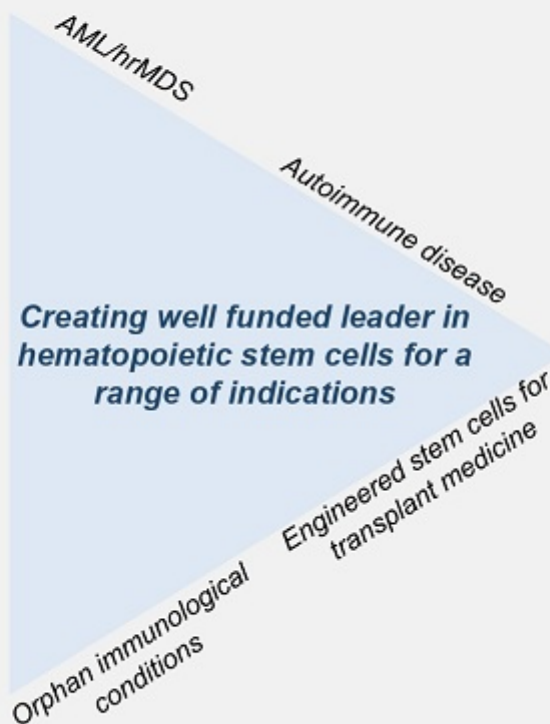
Industry and Market Data

Certain data in this Presentation was obtained from various external sources, and neither the Company nor its affiliates, advisers or representatives has verified such data with independent sources. Accordingly, neither the Company nor any of its affiliates, advisers or representatives makes any representations as to the accuracy or completeness of that data or undertakes any obligation to update such data after the date of this Presentation. Such data involves risks and uncertainties and is subject to change based on various factors.

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Jasper and Amplitude Add Significant Capital to Advance a Formidable Leader in Hematopoietic Stem Cell Transplant for a Range of Indications



Metalmark Capital and Avego Healthcare Capital Bring a Strong Track Record and Broad Suite of Capabilities



Metalmark overview	Avego overview
✓ Middle-market, growth oriented private investment firm	✓ Healthcare only, captive investment firm
✓ 25+ years investing experience	✓ Expert team of principals and scientific advisors
✓ \$5.5bn invested in 58+ companies	✓ \$300mm committed capital from principals
✓ \$11bn value generated on behalf on investment partners	✓ More than \$1.8bn in value created this decade

Metalmark Transaction History

- **August 2019:** Sold Collagen Matrix, a global developer and manufacturer of collagen and mineral-based medical devices
- **January 2019:** Metalmark portfolio company, Kissner Group Holdings, announced acquisition of NSC Minerals
- **December 2018:** Acquired Innovetive Petcare Holdings, a leading operator of veterinary hospitals
- **May 2018:** Completed a minority investment in Sebela Pharmaceuticals to finance the acquisition of Braintree Laboratories
- **October 2016:** Acquired Premier Research, a middle-market CRO
 - Premier acquired Regulatory Professionals in July 2018

Combined Healthcare Portfolio

Pharmaceuticals / Life Sciences

ALAVEN

Amber Ophthalmics

SAOL THERAPEUTICS



SENTYNL THERAPEUTICALS, INC.

Vidara THERAPEUTICS

Pharmaceutical Services

premier research

Medtech / Services

AEGIS

Catalytica

VANGUARD HEALTH SYSTEMS

Innovetive THERAPEUTICS

COLLAGEN MATRIX

Avego Transaction History⁽¹⁾

- **Sep 2020:** Sold Eyevance to Santen for \$225mm
- **May 2018:** Sebela Pharmaceuticals acquired Braintree Laboratories, a leading gastroenterology-focused pharmaceuticals company
- **January 2017:** Sold Sentyln Therapeutics, maker of pain products for \$171mm
- **March 2014:** Sold Vidara Therapeutics, a pharmaceutical company focused on rare / orphan diseases for \$660mm
- **August 2010:** Sold Alaven Pharmaceuticals, maker of prescription and OTC pharmaceutical products for women's health, gastroenterological, and anemia conditions for \$350mm

Metalmark's expertise in executing transactions coupled with Avego's deep industry knowledge creates a unique level of expertise in pursuing acquisition targets

¹ Includes transactions that were executed by Avego members prior to Avego's formation.

Co-owned by Metalmark and Avego

Amplitude Healthcare Acquisition: Management, Board of Directors, and Advisors

10 seasoned investors from Metalmark and Avego to work with Amplitude



Howard Hoffen - Chairman




- Founder, Chairman, and CEO at Metalmark
- Former Chairman and CEO at Morgan Stanley Capital Partners

Bala Venkataraman- CEO & Director



- Founding Partner at Avego
- Most recently Co-Founder & Executive Chairman at Vidara Therapeutics until its sale to Horizon Pharma

Vishal Kapoor - President



- Formerly CBO Iveric bio
- BD, Strategy, marketing and medical experience at NPS Pharma, Genentech & Pfizer

Kenneth Clifford - CFO



- Partner and CFO at Metalmark
- Former Managing Director and CFO at Morgan Stanley Capital Partners

Peter Dolan



Director

- Former CEO at Bristol-Myers Squibb, led acquisition of DuPont Pharmaceuticals
- Former Chairman and CEO at GeminX
- Former Chairman at Allied Minds

Fred Eshelman



Director

- Founder at Eshelman Ventures,
- Founder and former CEO at Pharmaceutical Product Development
- Founder at Funex Pharmaceuticals
- Director at Eyenovia, Collective Biotherapy, and Asepticys

Ernest Mario



Director

- Chairman at Soleno Therapeutics
- Venture Partner with Pappas Ventures
- Director at Celgene Corporation
- Former CEO at Glaxo
- Former CEO at Alza Pharma
- Former Chairman and CEO at Reliant Pharmaceuticals

Virinder Nohria M.D., Ph.D

Advisor

- Chairman at Sebelo Pharmaceuticals, Saol Therapeutics
- Former Director at Allergy Therapeutics, Promentis Pharmaceuticals, Horizon Therapeutics
- Founder and President at Vidara Therapeutics
- CMO at Alaven Pharmaceuticals and Xcel Pharmaceuticals
- Clinical Lead UCB and Eli Lilly

Glenn Reicin



Director

- CFO at Sigilon Therapeutics and formerly a Managing Director at Morgan Stanley
- President at Greyrock Biomedical Advisors

John Devane Ph.D

Advisor

- Director at Sebelo Pharmaceuticals, Saol Therapeutics
- Former CEO and founder at AGI Therapeutics and AthPharma
- Former CSO at Vidara Therapeutics and Horizon Therapeutics
- EVP R&D at Elan Pharmaceuticals

Jasper Expected Milestones



- Q2 2021 – **JSP191 AML/MDS** Phase 1a top line 90-day data
- Q2 2021 – **JSP191 AML/MDS** open enrollment of Phase 1b expansion
- Q4 2021 – **JSP191 Autoimmune** IND filing for Phase 1a pilot study
- Q4 2021 – **Engineered Stem Cell Platform** in-vivo Proof-of-Concept
- Q1 2022 – **JSP191 Investigator Sponsored Studies** preliminary data from Fanconi's Anemia and Sickle Cell
- 1H 2022 – **JSP191 Gene Therapy** first collaboration data
- 1H 2022 – **JSP191 AML/MDS** expansion cohort top line data
- 2H 2022 – **JSP191 SCID** Phase I/II complete study enrollment
- Q4 2022 – **JSP191 Autoimmune** pilot study interim data
- Q4 2022 – **Engineered Stem Cell Platform** first IND filing

PIPE Overview



Type of offering	Private Investment in Public Equity (PIPE)
Target Company	Jasper Therapeutics, Inc.
SPAC sponsor	Amplitude Healthcare Acquisition Corp.
Estimated size of offering	\$100mm
Commitment from Jasper existing shareholders	\$25mm
Commitment from Sponsors (Metalmark and Avego)	\$25mm
Pre-money valuation	\$275mm
Use of proceeds	To fund the continued clinical development of pipeline products, as well as for working capital and other general corporate purposes
Lead PIPE Placement Agent and Capital Markets Advisor	Credit Suisse
Co-placement agents	Cantor Fitzgerald, William Blair

De-SPAC Structure and Transaction Overview



Pro forma ownership (shares in mm)				
Security Holders	Shares Outstanding	% of Outstanding	Fully-Diluted Shares	Fully-Diluted %
Rollover equity shares for Company shareholders and holders of options and warrants ⁽²⁾	27.5	56.1%	27.5	56.1%
SPAC public shareholders	10.0	20.4%	10.0	20.4%
PIPE ⁽³⁾	10.0	20.4%	10.0	20.4%
SPAC sponsor promote	1.5	3.1%	1.5	3.1%
Total shares outstanding	49.0	100.0%	49.0	100.0%

Pro forma valuation (\$mm except per share items)	
Share price	\$10.00
Pro-forma equity shares outstanding	49.0
Equity value	\$490.0
Less: Pro-forma cash ⁽⁴⁾	\$200.0
Enterprise Value	\$290.0

Note: Promote vests 60% at close (1.5mm shares), 20% at \$15 (0.5mm shares) and 20% at \$18 (0.5mm shares). Three years to hit trigger or on CoC above the strike price.

(1) The amounts from the various sources of cash may change based on (i) the amount of Public Stockholder redemptions prior to Closing, (ii) investor interest in the Acquisition and (iii) the then current markets for equity and debt financing.

(2) Includes deferred IPO fees.

(3) Assumes that PIPE is sold at \$10.00 per share.

(4) Includes \$180m cash to company from PIPE investment and front end SPAC proceeds and \$20m in existing cash.

(5) Includes deferred underwriting fees.

Sources and uses (\$mm)	
Sources ⁽¹⁾	
SPAC cash in trust (assuming no redemptions)	\$100.0
PIPE Investment	\$100.0
Seller rollover equity	\$275.0
Total sources	\$475.0

Uses	
Cash to Surviving Company balance sheet	\$180.0
Seller rollover equity	\$275.0
Estimated Transaction Expenses	\$20.0 ⁽⁵⁾
Total uses	\$475.0

Jasper Therapeutics Highlights: Science Based on Hematopoietic Stem Cells and Their Biology



JSP191: first-in-class anti-CD117 mAb conditioning agent	Initial safety and efficacy in SCID (Severe combined immunodeficiency), AML (Acute myeloid leukemia) and MDS (Myelodysplastic syndromes) transplant patients Multiple data read outs in next 12-18 months including AML Ph2 Pursuing additional indications including autoimmune disease and gene therapies
Novel Hematopoietic Stem Cell Engineering Platform	Platform of cell engineered programs to increase the cure rate of allogeneic and gene therapy grafts as well as improve their safety Multiple in-vitro and in-vivo proof of concept data in 2021 & 2022, target Q4 2022 IND
Validating Academic and Corporate Partnerships	Corporate: Graphite Bio (Gene Therapy) and Zai Labs (CD47) collaborations Academic: Sickle Cell Disease (NIH) & Fanconi Anemia (Stanford) studies
Seasoned Management Team Leading Investors	Backed by Abingworth, Qiming, Surveyor/ Citadel, Roche Ventures Research endorsed and supported by \$24M CIRM ⁽¹⁾ grants Management with extensive track records and recognized HSC scientists

(1) California Institute for Regenerative Medicine.

Management Team and Scientific Advisory Board: Drug Development & Company Building Track Record and Experts in the Field



MANAGEMENT

William Lis, Executive Chair & CEO



Kevin N. Heller, Executive Vice President, Research and Development



Jeet Mahal, Chief Financial Officer



Carol Zoltowski, Senior Vice President Regulatory & Quality



Craig Burns, Vice President Program Management



Janet Hurt, Vice President Clinical Operations



Luca DiNoto, Vice President Technical Operations



Wendy Pang, Vice President, Research & Translational Medicine



SCIENTIFIC ADVISORY BOARD

Judith Shizuru (Chair), Co-founder, Professor of Medicine and Pediatrics



Fredrick Appelbaum, Exec Vice President and Deputy Director



Lori Kunkel, Independent Director



Harry Malech, Chief Genetic Immunotherapy Section NIAID



Jeff Ravetch, Professor Molecular Genetics and Immunology



Arthur Weiss, Professor, Departments of Medicine, Microbiology and Immunology; Investigator Howard Hughes Medical Institute



Unmet Medical Need: Hematopoietic Stem Cell Transplants (HSCT) Most Powerful Form of Disease Cure, Yet Remain Underutilized



Limitations of Conditioning (prepare patient's bone marrow)

- Old SOC agents are genotoxic
- Major Toxicities and AEs:
 - Treatment related Cancer
 - Veno-occlusive Disease
 - Bacteremia
 - Pulmonary Fibrosis
 - Infertility
- Mortality Risk
- Hospitalization in isolation

Limitations of Transplant Grafts

- Clinical Relapse
- Failed or Poor Engraftment
- Graft vs. Host Disease (GvHD)
- Long-term Immunosuppression

Only a
minority of
patients
receive a
transplant

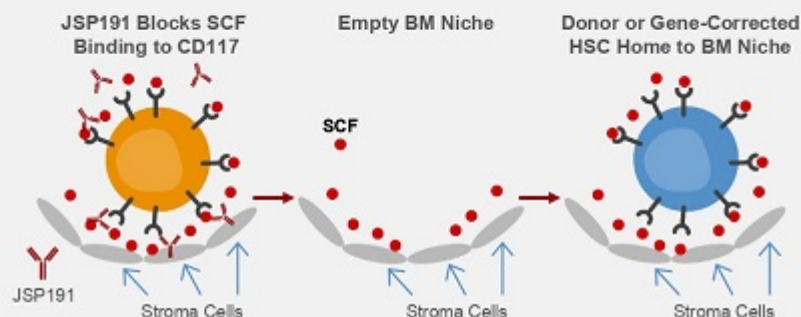
Those who do not
receive a transplant
are left with life
threatening disease

Jasper Therapeutics could exponentially expand the eligible patient population for both **allogeneic** and **autologous gene edited** hematopoietic stem cell therapy

Jasper's Science is Focused on the Stem Cell, Targeting Stem Cell Factor Receptor & Expanding to Novel Cell Engineering



JSP191 Anti-CD117 Antibody to Address Conditioning Limitations



- Stem Cell Factor (SCF) / Stem Cell Factor Receptor (CD117) interaction required for stem cell survival
- JSP191 blocks SCF signaling leading to patient stem cell depletion from the bone marrow
- Allows for healthy donor stem cell engraftment

CELLULAR ENGINEERING to Address Limitations of Transplant Grafts



- Jasper mRNA / DNA cell engineering to improve donor stem cell engraftment
- Removes need for donor T-cells in graft and eliminates risk of GvHD
- Expanding cures amongst patients living with devastating diseases

Jasper's Expanding Pipeline



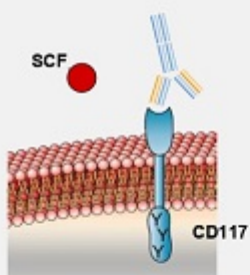
PROGRAM	RESEARCH	IND-ENABLING	CLINICAL	COMMERCIAL
JSP191 CONDITIONING				
AML/ MDS	○	○	○	○
SCID	○	○	○	○
Autoimmune (Lupus, MS, Scleroderma)	○	○	○	○
Fanconi's Anemia	○	○	○	○
Sickle Cell Disease	○	○	○	○
Gene Therapy (X-SCID)	○	○	○	○
Jasper eHSC GRAFTS				
Thalassemias	○	○	○	○
Sickle Cell Disease	○	○	○	○
Autoimmune Diseases	○	○	○	○



Unique and Differentiated JSP191 Properties Compared to All Other CD117 Antibodies

JSP191

Blocks SCF Binding to CD117 Receptor

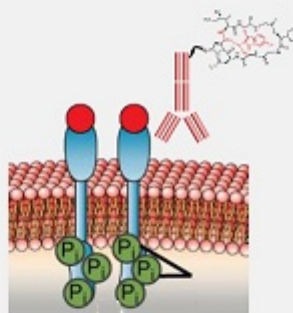


Inhibition of Stem Cell Survival Signal

Targeted Stem Cell Depletion

Toxic Payload

Binds to all CD117 Expressing Cells



No CD117 Signal Inhibition

Toxin Internalized on Mast Cells, Germ Cells, Melanocytes, etc.

Only anti-CD117 antibody that inhibits stem cell factor survival signal resulting in targeted depletion

- Only JSP191 shows in-vivo single agent depletion
- JSP191 SCF signal inhibition sensitizes stem cells for synergistic combination therapy (radiation, 5-azacytidine, CD47)

Only JSP191 is aglycosylated and designed to remove all effector cell function and mast cell activation

- No mast cell related anaphylaxis
- No reported treatment related SAEs

No toxic payload that may lead to off-target effects based on normal CD117 expression

- CD117 also expressed on mast cells, germ cells, Cajal (GI) cells, melanocytes

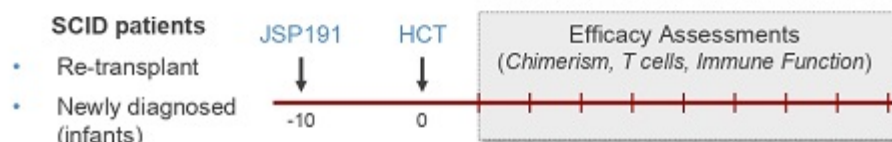
JSP191's First Clinical POC in Ultra Orphan Indication, Severe Combined Immunodeficiency (SCID)



SCID is a lethal genetic immune disorder. HCT is the only proven cure, without it most infants die before the age of two years.

Jasper SCID Clinical Trial

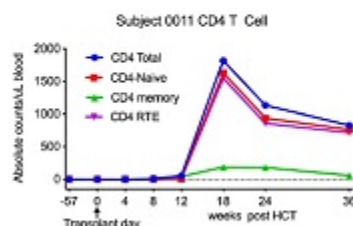
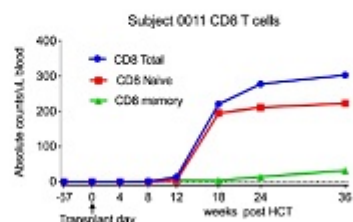
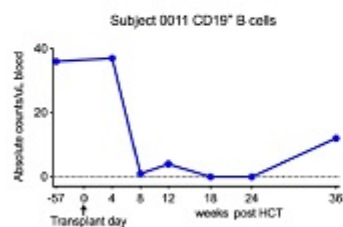
Single Arm Trial Design



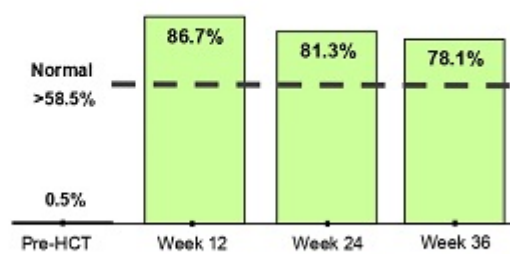
JSP191 Safe and Well Tolerated

- 12 re-transplant patients (*ages 3 – 37 years old*)
- 2 newly diagnosed/first transplant (*ages 3 and 6 months old*)
- No treatment related SAE
- No myelosuppression
- FDA amendment to transition 191 to outpatient therapy

Newly Diagnosed SCID Subject – Immune Reconstitution and T Cell Function (6 month old infant – no treatment related AEs)



T cell Function: Maximum proliferation as a % of CD3+ cells in response to PHA



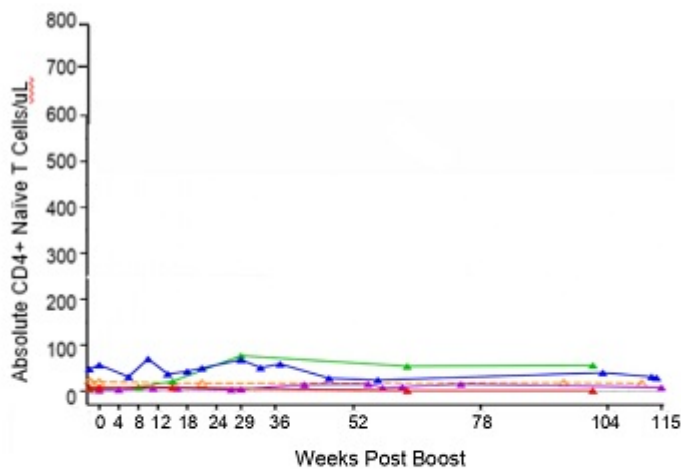
From Agarwal et al, TCT 2021

JSP191 Conditioning in SCID HCT Demonstrates Durable Naive T-cell Production and Immune System Reconstitution

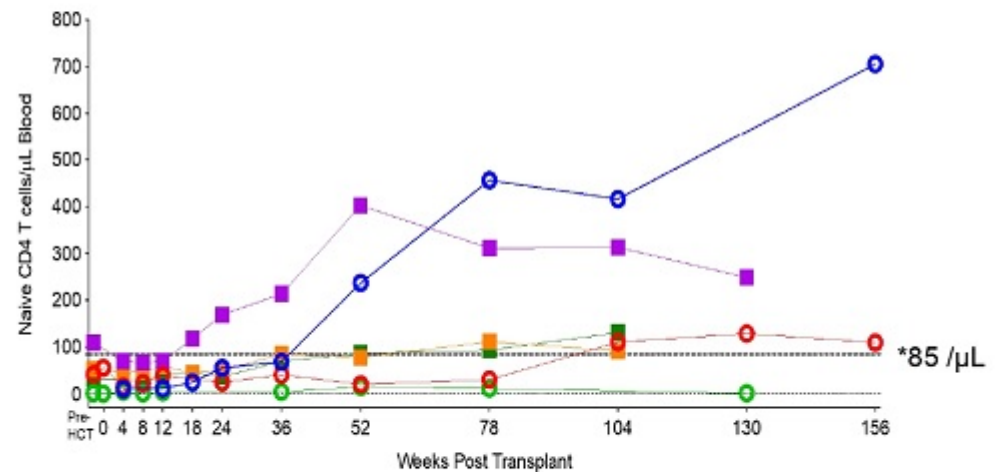


Naïve CD4 T cell production post- cell infusion

A. No Conditioning (Matched Cohort Patient)

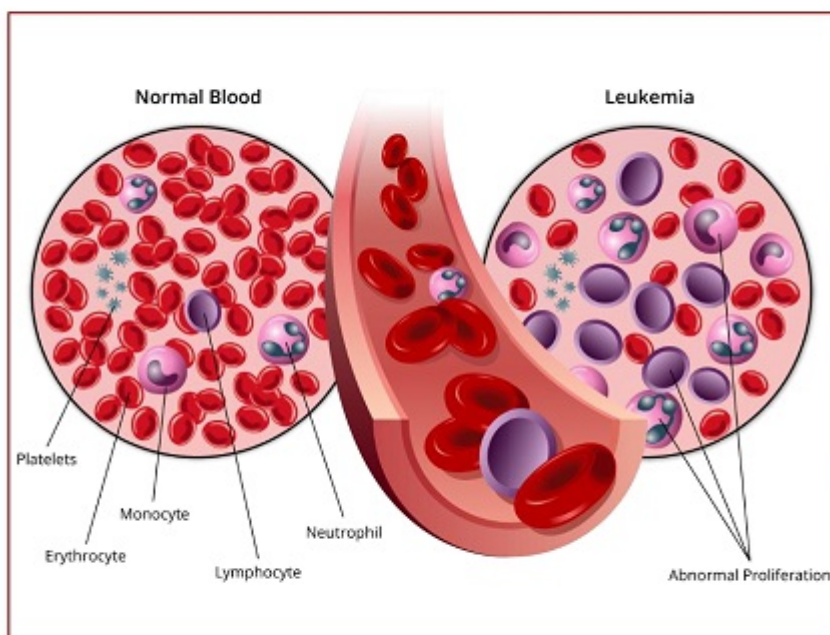


B. JSP191 Conditioning



*Expected Level for Clinical Benefit

JSP191 is Advancing in AML and MDS, a Large Opportunity for Curative HCT with Non-Toxic Conditioning



AML/MDS Disease Overview

AML and MDS are clonal myeloid malignancies and diseases of elderly with high mortality

HCT is a SOC curative procedure: ~11,000 G7 HCTs in 2019, but up 30,000 could be eligible

Jasper JSP191 strategy:

- Synergistic combination with low dose radiation
- Start with elderly patients not eligible for HCT for expedited development path
- Expand HCT use broadly in AML/MDS

“MDS is curable by transplant, but only few go through the transplant”- Leading Academic KOL

JSP191 AML/ MDS Study: Ongoing Study in MRD Positive Patients Not Eligible for Full Myeloablative Conditioning

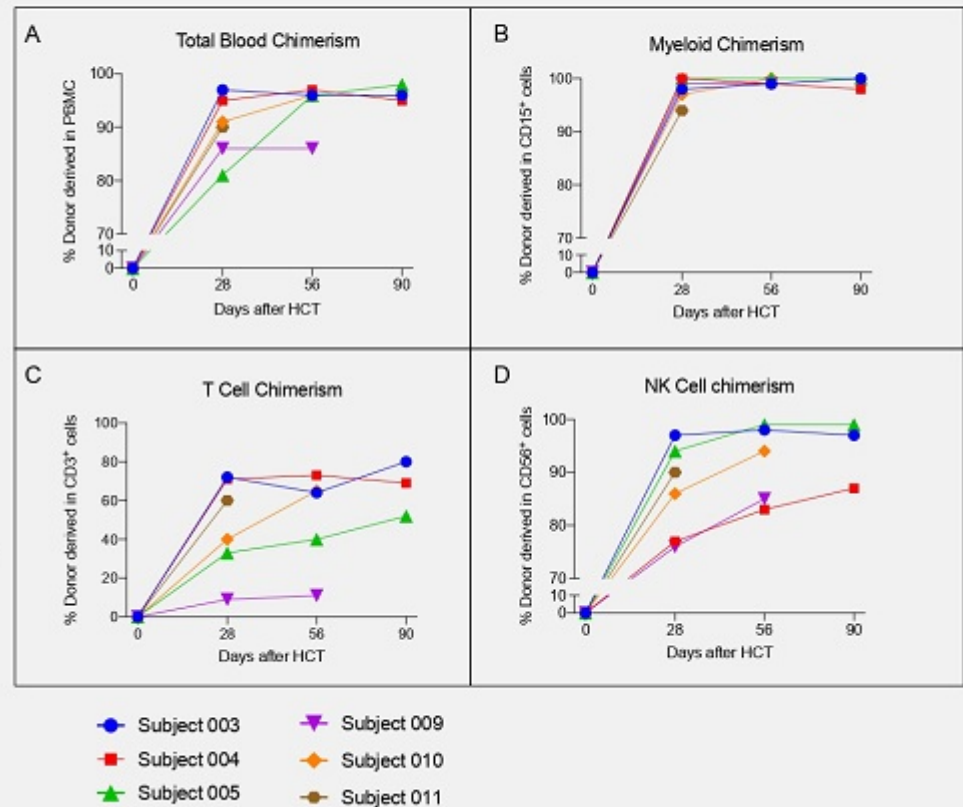
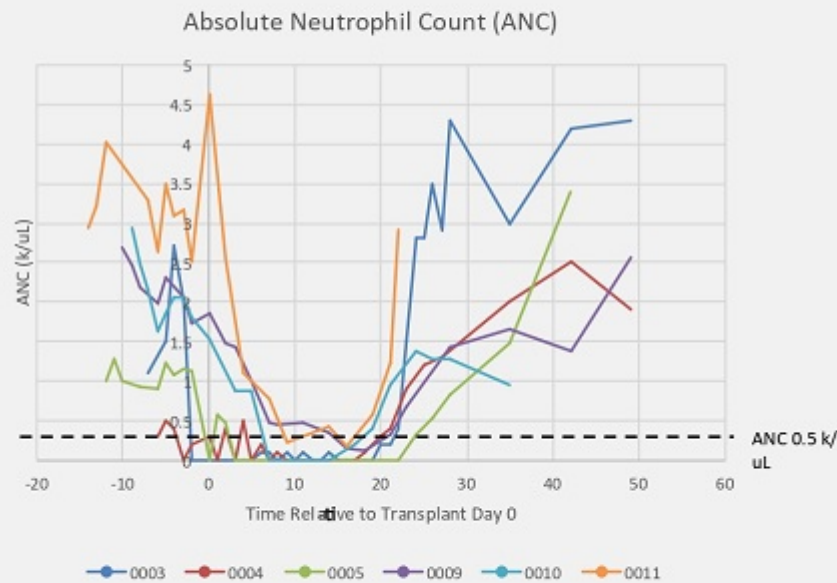


MRD Positive AML/MDS Patients Not Eligible for Standard Myeloablative Regimens (HCT-CI >2)

DOSE FINDING	DOSE EXPANSION		
<p>Subjects with AML/MDS (n=6) not eligible for standard myeloablative regimens</p> <p>JSP191 0.6mg/kg in combination with low dose radiation and fludarabine</p> <p>Assessment of Activity:</p> <ul style="list-style-type: none"> • Neutrophil engraftment • CD15+ chimerism • MRD status 	<p>COHORT</p>	<p>PRIMARY OBJECTIVE</p>	<p>EFFICACY ENDPOINTS</p>
	<p>AML/MDS <5% blasts (in CR) MRD positive</p>	<p>MRD negative</p>	<p>Neutrophil Recovery CD15+ Chimerism MRD markers</p>
	<p>MDS w/ 5-20% blasts</p>	<p>Complete Response</p>	<p>Neutrophil Recovery CD15+ Chimerism MRD markers</p>
	<p>AML with Active Disease</p>	<p>Complete Response</p>	<p>Neutrophil Recovery CD15+ Chimerism MRD markers</p>

ClinicalTrials.gov NCT04429191

MDS/AML: Neutropenia Followed by Donor Cell Engraftment Suggests Successful Myeloablation Using JSP191/TBI/Flu Combination



CONFIDENTIAL: JSP191 Conditioning Leads to Successful Transplant and Conversion to MRD Negative Status/ MRD Reduction in First AML & MDS Patients



MRD Positive AML/MDS Patients Not Eligible for Standard Myeloablative Regimens (HCT-CI >2)

TCT 2021 Late Breaking Presentation

Age / Sex	Diagnosis	MRD Status at Baseline
74yr F	AML	Positive
70yr M	MDS	Positive
68yr M	MDS	Positive
74yr M	MDS	Positive
65yr M	AML	Positive
69yr M	AML	Positive



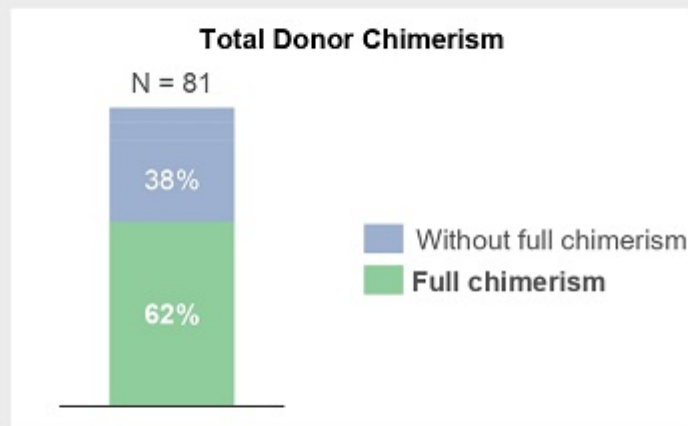
Neutrophil Engraftment	Chimerism Day 28 (CD15)	MRD at Day 28	MRD at Day 90
Day 23	98%	Reduced	Negative
Day 22	100%	Negative	Negative
Day 26	100%	Negative	Negative
Day 23	99%	Negative	Negative
Day 22	97%	Reduced	On Study
Day 19	94%	Reduced	On Study

No treatment related SAEs

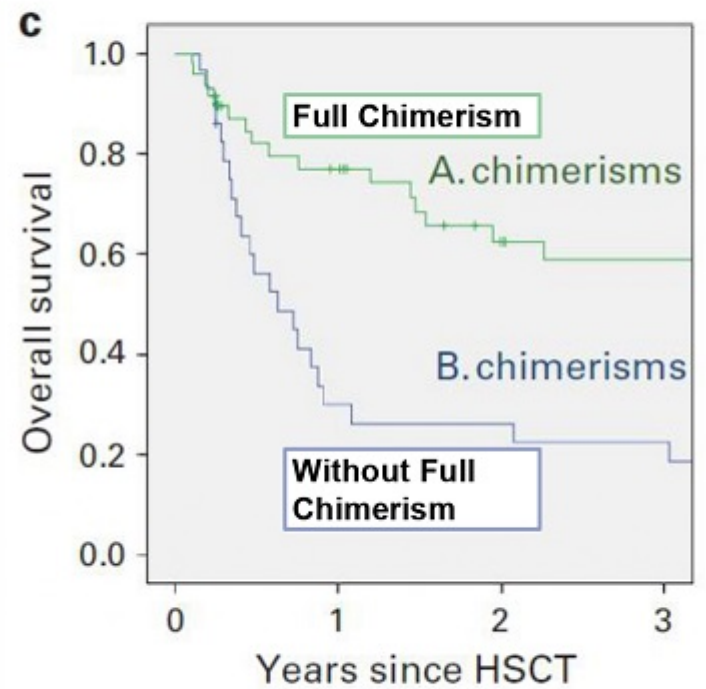
Expected Full Donor Chimerism With TBI/Flu Alone is ~60% and Lack of Full Donor Chimerism is Associated with Poor Survival



200 cGy TBI + Flu Alone



62% of patients demonstrated full chimerism after conditioning with 2 Gy TBI/Flu



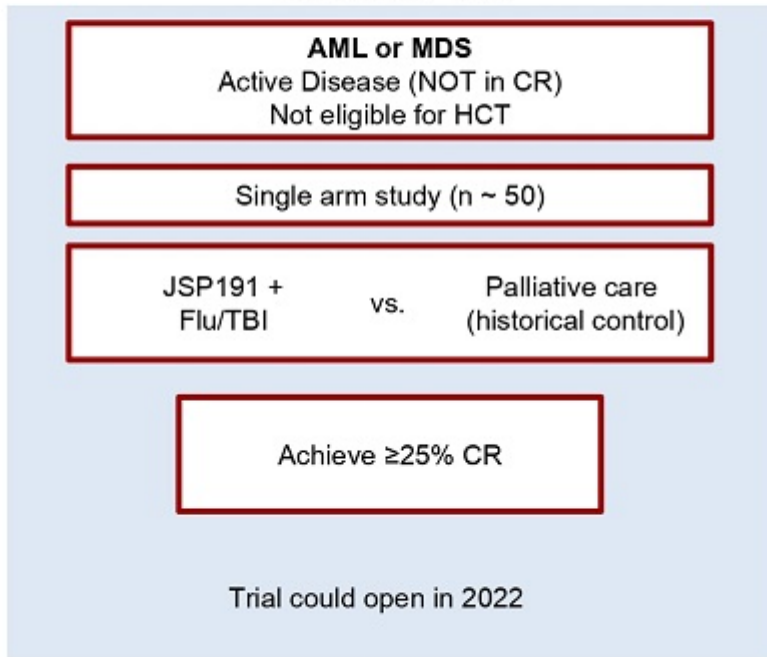
1 Eggimann L, Girsberger S, Halter J, et al. Kinetics of peripheral blood chimerism for surveillance of patients with leukemia and chronic myeloid malignancies after reduced-intensity conditioning allogeneic hematopoietic SCT. *Bone Marrow Transplant.* 2015;50(5):743-745.

JSP191 MDS/AML Paths to Regulatory Approvals



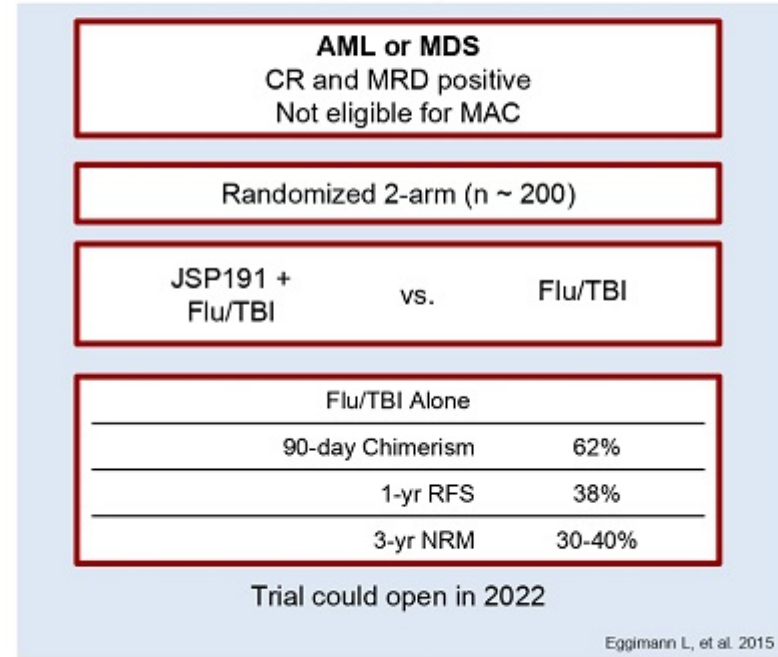
JSP191/Flu/TBI

Single Arm Trial



JSP191/Flu/TBI vs. Flu/TBI

Superiority Trial



Eggmann L, et al. 2015

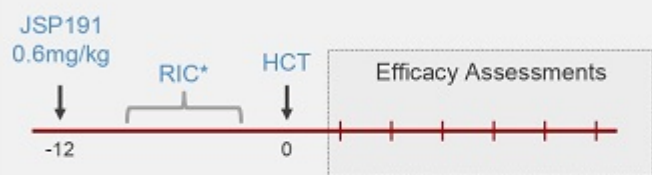
JSP191 Autoimmune Study: A Study in Patients with Severe Autoimmune Diseases



JSP191 in combination with a reduced intensity conditioning regimen for allo-HCT

SAFETY RUN-IN

Eligible subjects with severe autoimmune diseases:
 Systemic Lupus Erythematosus (SLE)
 Multiple Sclerosis (MS)
 Systemic Scleroderma (SSc)



* Low dose serotherapy +TBI

DOSE EXPANSION

COHORT	PRIMARY OBJECTIVE	EFFICACY ENDPOINTS
SLE	Safety Engraftment	Neutrophil Recovery CD15+ Chimerism
MS	Safety Engraftment	Neutrophil Recovery CD15+ Chimerism
SSc	Safety Engraftment	Neutrophil Recovery CD15+ Chimerism

Pilot Study Initiation Targeted for 2H of 2021

JSP191 Targets a Large Addressable Market Across Multiple Diseases Treated by Stem Cell Transplant



Allo-HCT for Heme Malignancies



TRANSPLANTS
~17,000 CURRENT
~40,000 ADDRESSABLE

~\$2B MARKET

Allo-HCT for Non-Malignant Disease



TRANSPLANTS
~3,000 CURRENT
~6,000 ADDRESSABLE

~\$300M MARKET

Autologous Gene Therapy



TRANSPLANTS
<100 CURRENT
~10,000 ADDRESSABLE

~\$500M MARKET

Severe / Refractory Autoimmune



TRANSPLANTS
~1,000 CURRENT
~25,000 ADDRESSABLE

~\$1.3B MARKET

Effective and Safe Conditioning Can Grow Allogeneic & Gene Therapy Transplant Market from ~20,000 to over 80,000

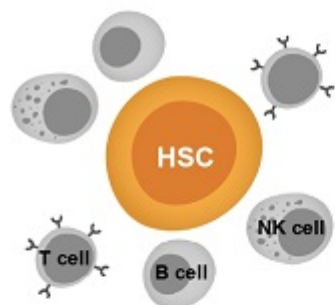
Jasper Engineered Hematopoietic Stem Cells (eHSC) Platform: Unlocking the Potential of Stem Cells



Replete / Modified Grafts

Jasper eHSCs *mRNA Engineering*

UNMODIFIED DONOR STEM CELLS



- T-cells / Other Immune Cells Required for Robust Engraftment
- Donor T-cells lead to GvHD & Requirement for Immune Suppression

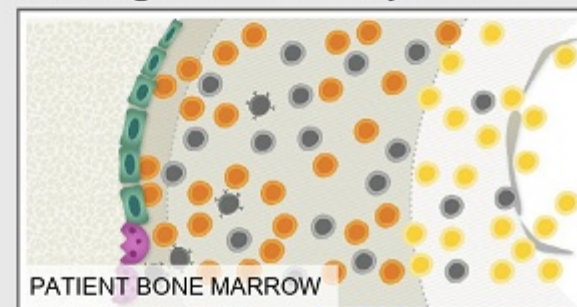
ENGINEERED STEM CELLS



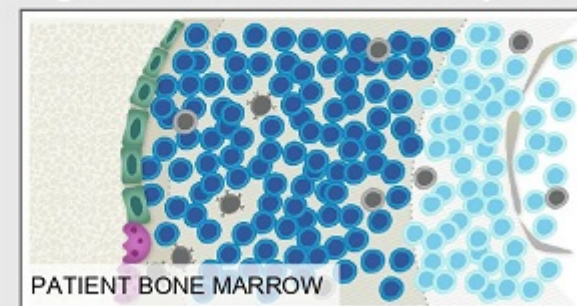
- Allows for pure stem cell grafts
- Faster and higher level of engraftment in both allo and auto gene-therapy
- No immune suppression or GvHD

- Patient stem cells
- Unmodified donor stem cells
- Engineered stem cells

Non-engineered Transplant:



Engineered Stem Cell Transplant:

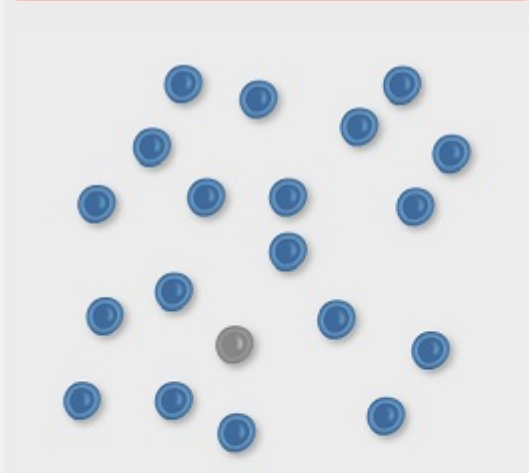


Jasper eHSCs: Addition of a Single Designer Receptor Can Confer Significant Advantage to Curative Stem Cells

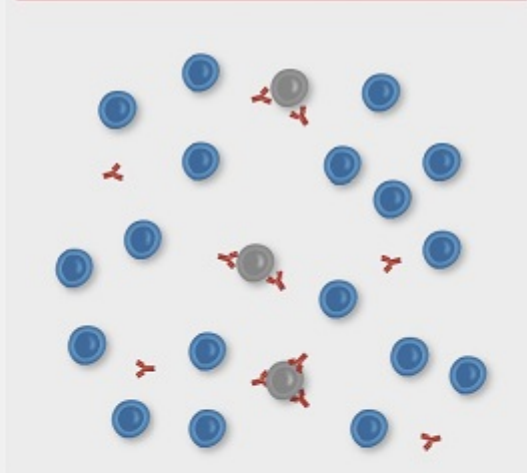


Lead optimization: Three lead options in development

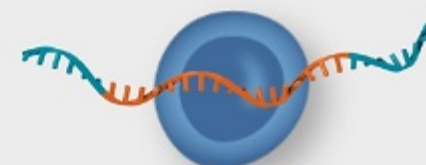
1. CD117 manipulation to convey an intrinsic proliferative advantage



2. CD117 manipulation to enable resistance to JSP191 conditioning



3. New Properties (i.e., survival advantage)



Lead screening: Additional products are being developed to reprogram HSCs with greater engraftment and higher cure rates

PATIENT STEM CELLS ANTIBODIES ENGINEERED STEM CELLS

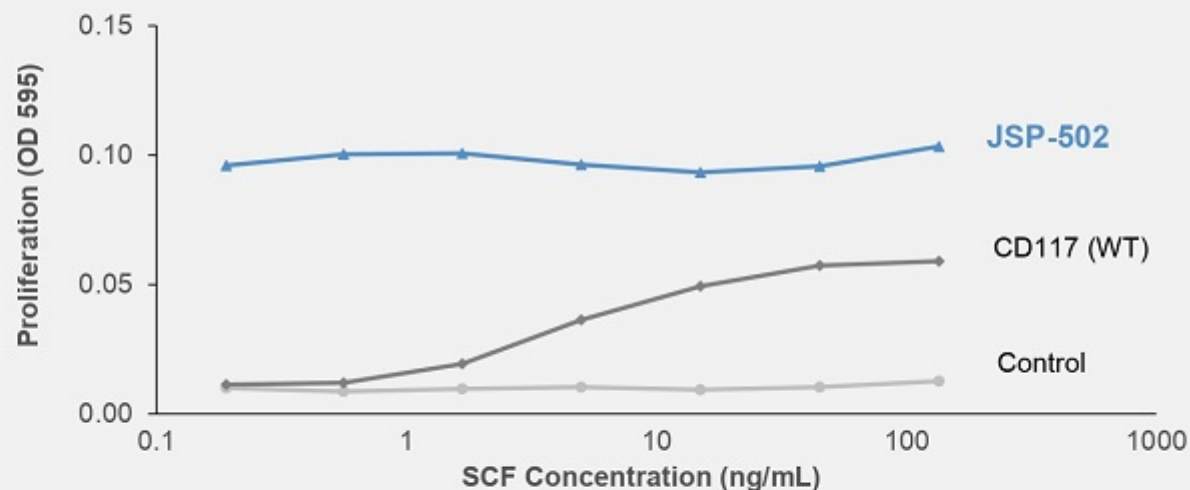
Proof of Concept: JSP-502 Reprograms Cells to SCF Independence and Faster Growth than CD117 Dependent Cells

1. CD117 manipulation to convey an intrinsic proliferative advantage

Stem Cell Factor Receptor



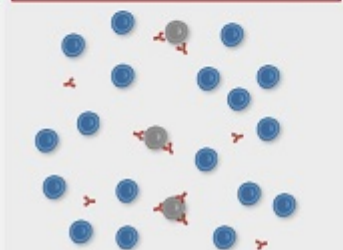
JSP-502 and CD117 in BaF3 model



Clinical Hypothesis: JSP-502 Engineered HSCs Will Outcompete Normal HSCs

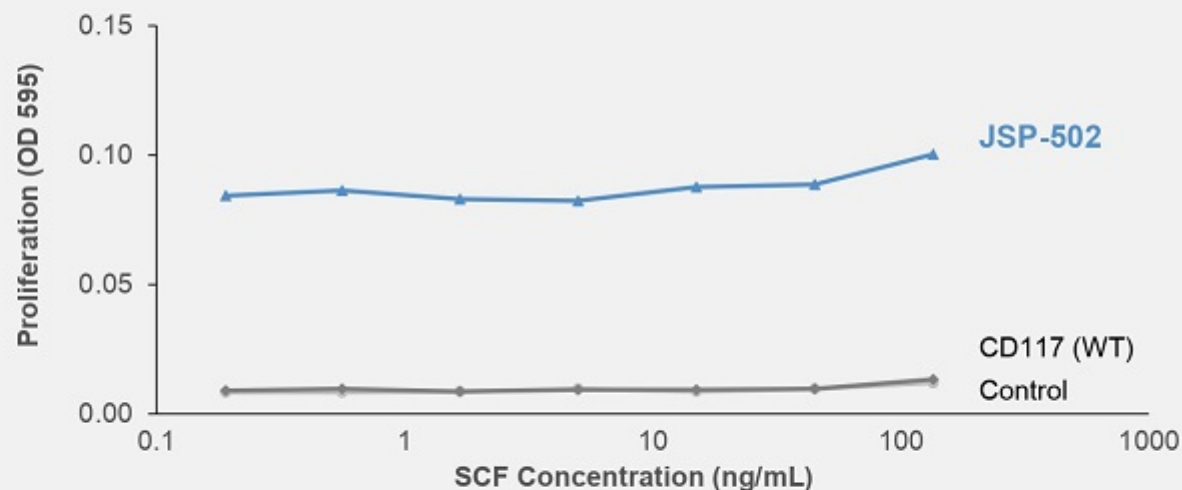
Proof of Concept: JSP-502 Reprogrammed Cells are Resistant to JSP191 Inhibition

2. CD117 manipulation to enable resistance to JSP191 conditioning



Transient RNA expression enables JSP191 resistance

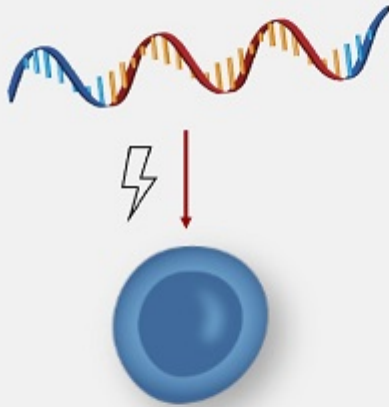
JSP-502 Plus JSP191 in BaF3 model



Clinical Hypothesis: JSP-502 Engineered HSCs Can Be Given Together With JSP191 Conditioning

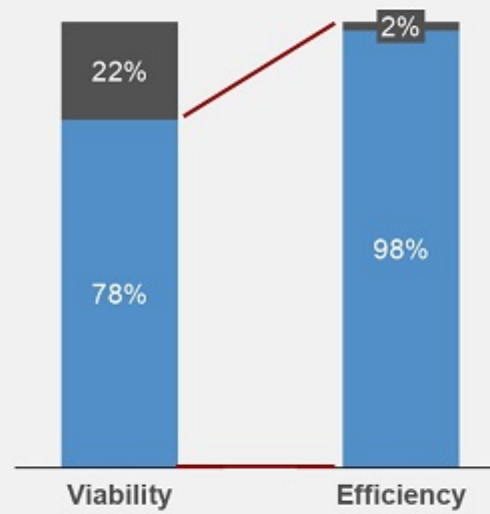
mRNA Insertion into CD34+ Stem Cells with Efficiency and Viability

mRNA Insertion



GFP mRNA inserted into CD34+ HSCs via electroporation

Viability & Efficiency



Next Steps

- In vitro functional assays pending to evaluate health and preservation of stem cell functions
- Exploring additional methods of mRNA delivery:
 - Lipid Nanoparticles (LNPs)
 - Nano-Fluidics
 - Nano-Mechanical

eHSCs Aim to be Broadly Applicable Across Patient Populations with Unmet Need and Large Addressable Markets



Allo-HCT for non-malignant heme



- ✓ Improved safety
- ✓ Improved engraftment
- ✓ Greater cures

TRANSPLANTS
~3,000 CURRENT
~6,000 ADDRESSABLE

~\$1.5B MARKET

Auto gene therapy for beta-thal + SCD



- ✓ Synergy with gene therapy
- ✓ Improved safety & efficacy
- ✓ Greater cures

TRANSPLANTS
<100 CURRENT
~10,000 ADDRESSABLE

~\$2.5B MARKET

Severe / refractory autoimmune



- ✓ Transformative safety & efficacy vs. DMARDs
- ✓ Enable cures for Millions

TRANSPLANTS
~1,000 CURRENT
~25,000 ADDRESSABLE

~\$6B MARKET

Solid organ transplant tolerance



- ✓ Improved safety & engraftment
- ✓ Eliminate lifelong immuno-suppression

~10,000 CURRENT Living Donor Kidney Transplants
~10,000 ADDRESSABLE

~\$2.5B MARKET

Jasper Expected Milestones



- Q2 2021 – **JSP191 AML/MDS** Phase 1a top line 90-day data
- Q2 2021 – **JSP191 AML/MDS** open enrollment of Phase 1b expansion
- Q4 2021 – **JSP191 Autoimmune** IND filing for Phase 1a pilot study
- Q4 2021 – **Engineered Stem Cell Platform** in-vivo Proof-of-Concept
- Q1 2022 – **JSP191 Investigator Sponsored Studies** preliminary data from Fanconi's Anemia and Sickle Cell
- 1H 2022 – **JSP191 Gene Therapy** first collaboration data
- 1H 2022 – **JSP191 AML/MDS** expansion cohort top line data
- 2H 2022 – **JSP191 SCID** Phase I/II complete study enrollment
- Q4 2022 – **JSP191 Autoimmune** pilot study interim data
- Q4 2022 – **Engineered Stem Cell Platform** first IND filing



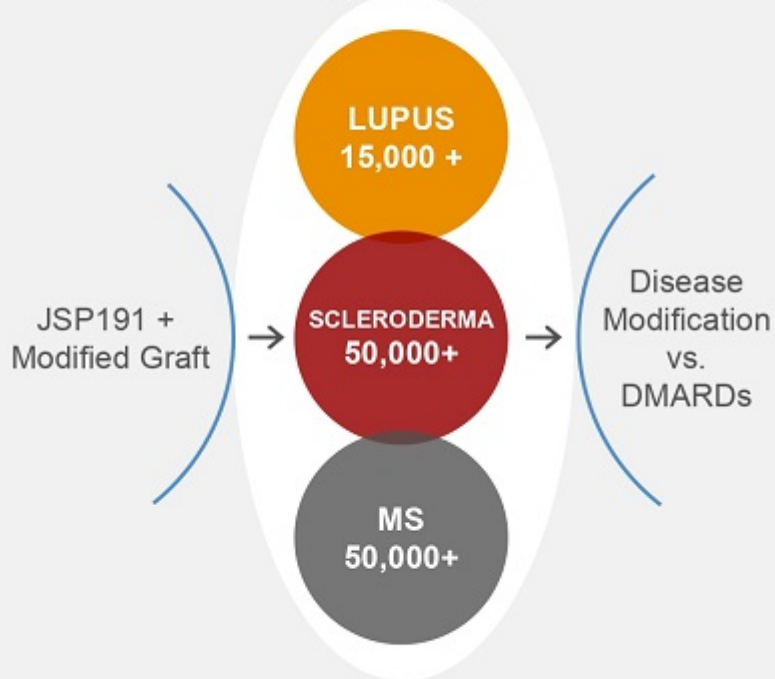
Appendix

April 2021

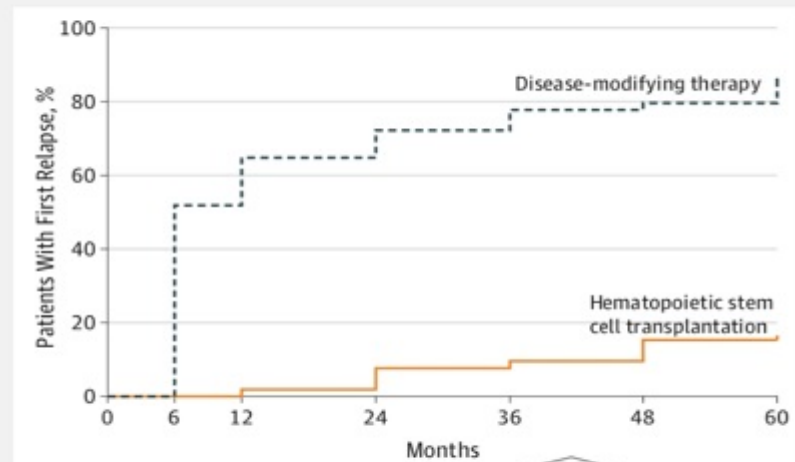
CONFIDENTIAL

JSP191 HCT Conditioning Poised to Transform HCT to Cure Severe Autoimmune Diseases

Severe Autoimmune Diseases
Population (G7)



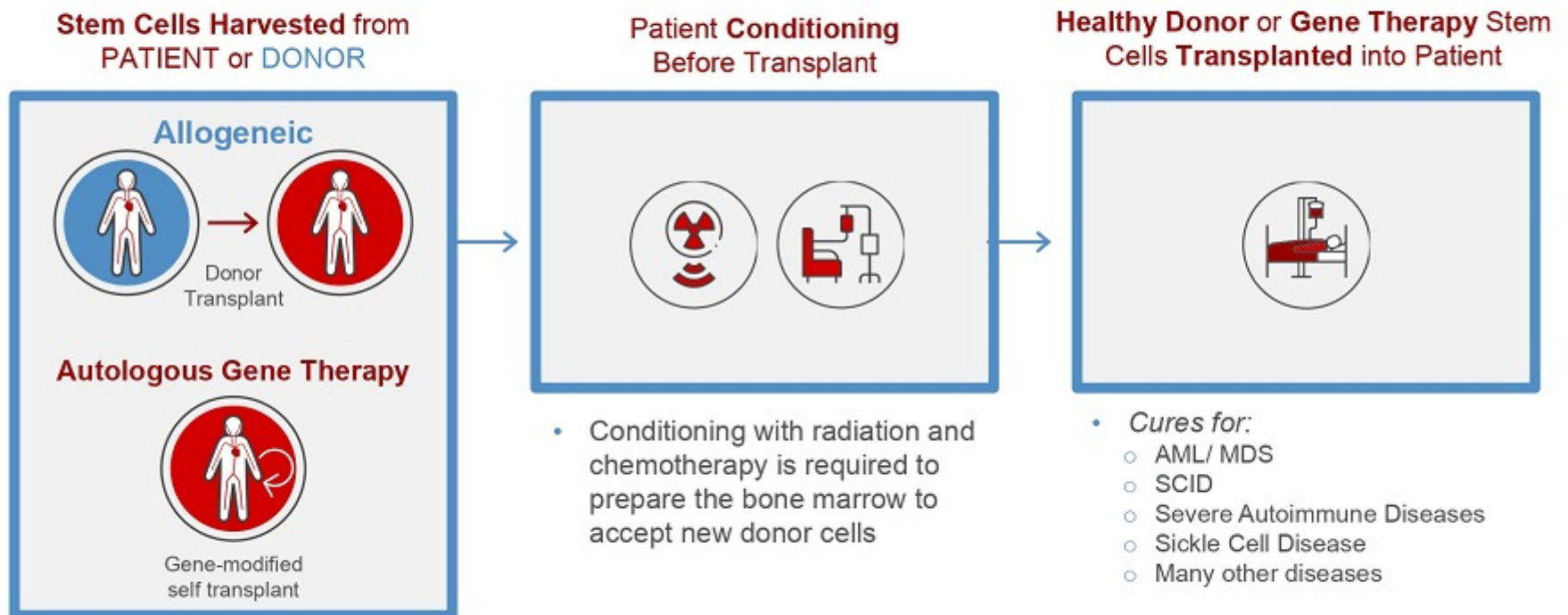
Stem Cell Transplant (Autologous) in Multiple Sclerosis



JSP191 therapy has potential to achieve the efficacy of auto-HCT without the toxicity that prohibits its use.

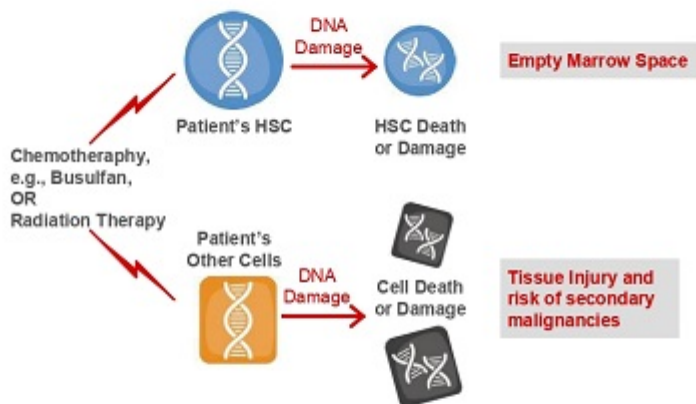
Pilot Study Initiation Targeted for 2H of 2021

Hematopoietic Stem Cell Transplantation is a Multi-Step Procedure Resulting in Curative Cellular Replacement



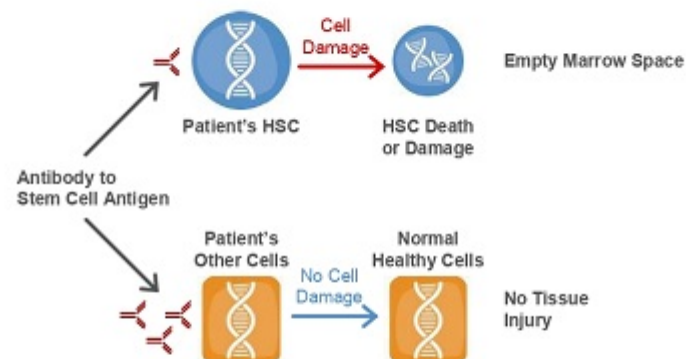
Toxic Conditioning Regimens is an Obstacle for Transplant: Jasper is Developing a Safer Alternative

Current Transplant Conditioning Removes HSCs Through Highly Toxic Regimens



Marrow ablation by chemotherapy or radiation therapy causes cell damage or death to other patient cells

JSP191 Selectively Targets HSCs: An Alternative to Toxic Conditioning Regimens



Using an antibody to stem cell antigen will limit extramedullary tissue damage seen with conventional genotoxic conditioning

Conditioning with radiation and chemotherapy is required to prepare the body to accept new donor cells

Toxicities include damage to collateral organs in patients who are often in a weakened state due to prior treatments, leading to prolonged hospitalizations and poor outcomes

Busulfan is Carcinogenic Via Direct Nucleoside Alkylation and Broadly Toxic Across Multiple Organ Systems

Alkylating agents (e.g., busulfan, melphalan) cause random DNA damage throughout the genome

- During the DNA repair process, there is frequent misrepair of DNA damage caused by alkylating agents, leading to mutations throughout the genome

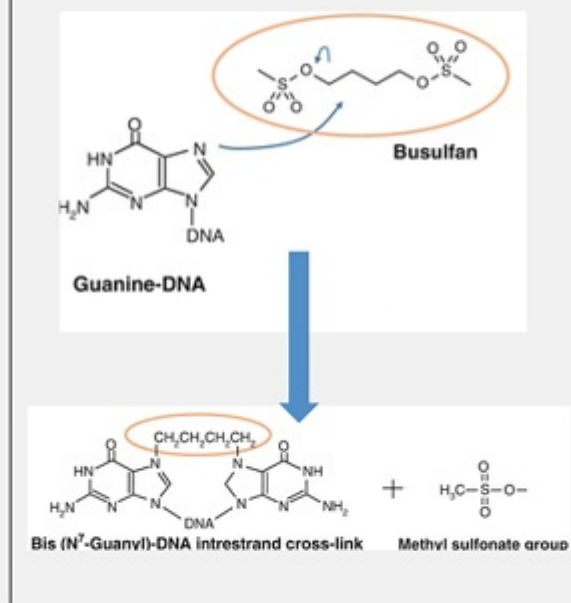
When mutation(s) occur and accumulate in HSCs, which self-renew, then they can eventually cause secondary MDS/AML

- Recipient HSCs are not completely eradicated with myeloablative conditioning, so these HSCs are the reservoir for the mutations caused by chemotherapy or radiation

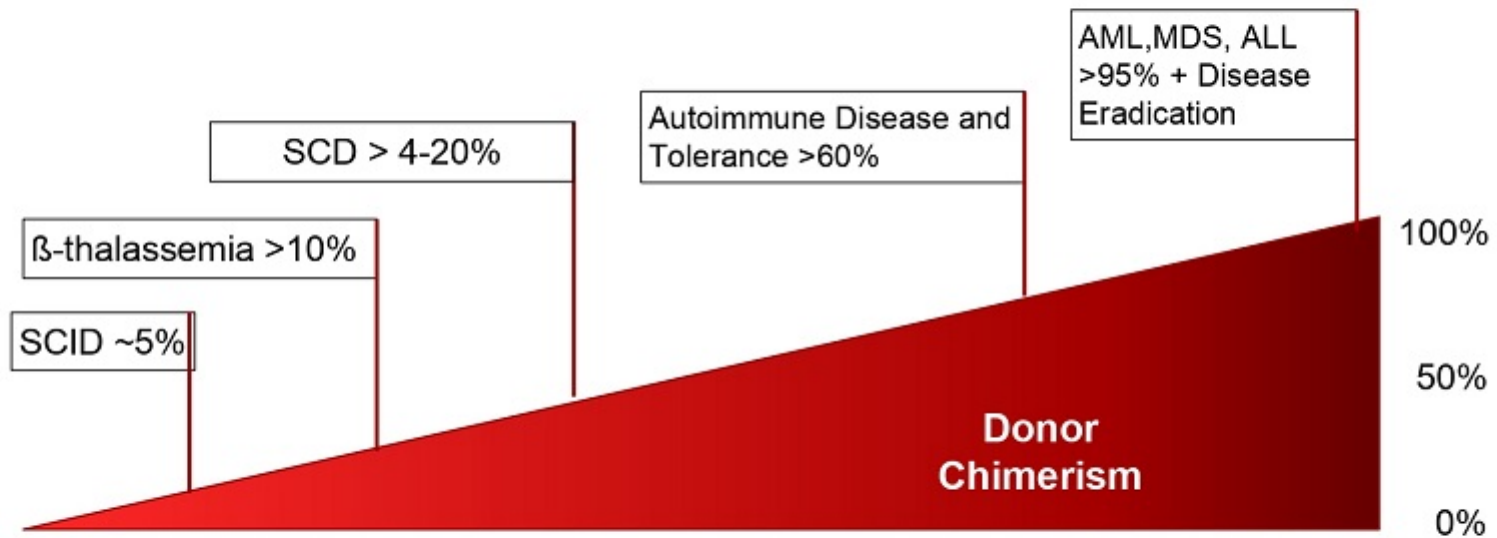
Busulfan causes other substantial toxicities in lung, liver, reproductive, adrenal organs often leading to long post-transplant hospitalizations and long-term effects

Kim, et al., *Cancer Drug Discovery*. 2016

Busulfan Direct Alkylation



Different Clinical Settings May Require Different Levels of Chimerism for Therapeutic Benefit



Fitzhugh CD. et al; Blood 130: 1946, 2017

JSP191 Preclinical POC as Single Agent for HSC Depletion: JSP191 Causes Robust And Transient Depletion Of BM HSC in Non-Human Primates



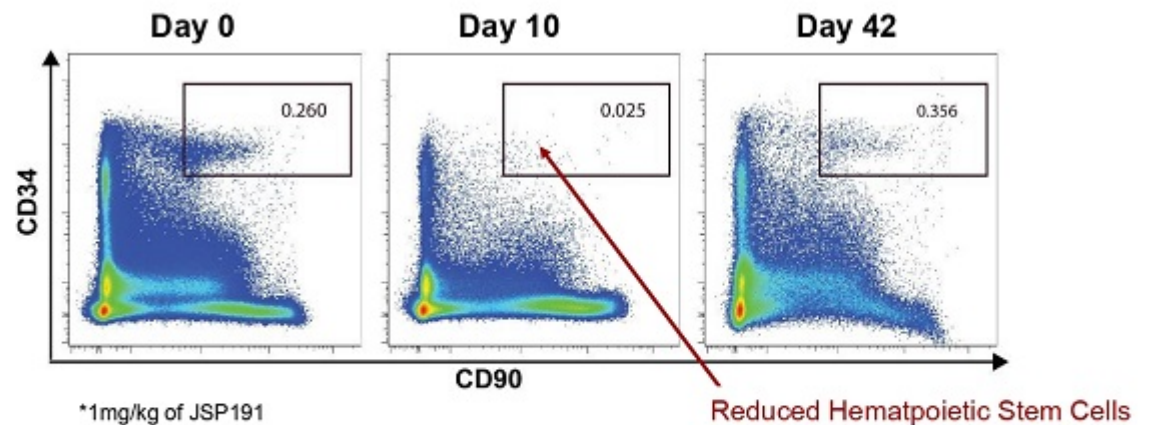
Anti-human CD117 antibody-mediated bone marrow niche clearance in non-human primates and humanized NSG mice

HyeSook Kwon, Aaron C. Logan, Akanksha Chhabra, Wendy W. Pang, Agnieszka Czechowicz, Keri Tate, Alan Le, Jessica Poyser, Roger Hollis, Benjamin V. Kelly, Donald B. Kohn, Irving L. Weissman, Susan S. Prohaska and Judith A. Shizuru

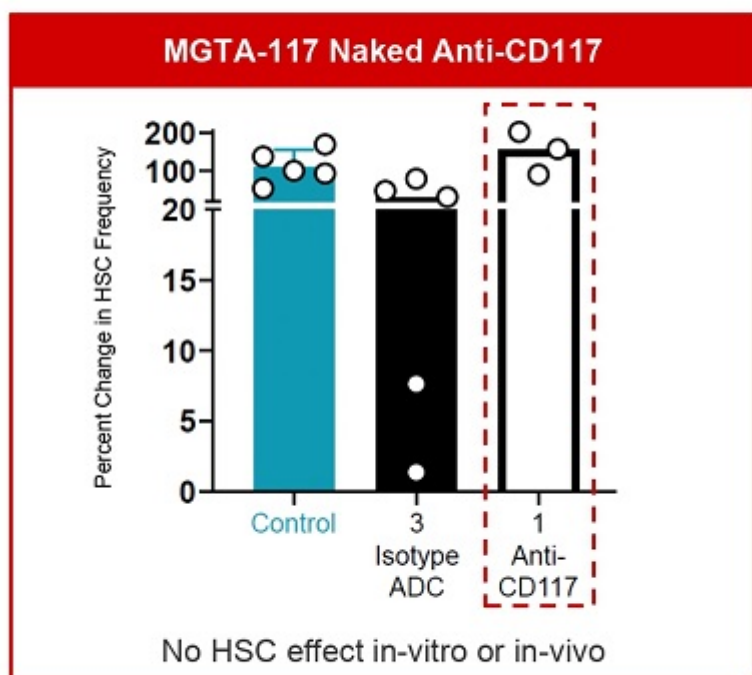
HSC depletion in four NHP

JSP191 Dose	HSC depletion at Day 10	
0.1mg/kg	#1	94%
	#2	86%
1mg/kg	#3	78%
	#4	97%

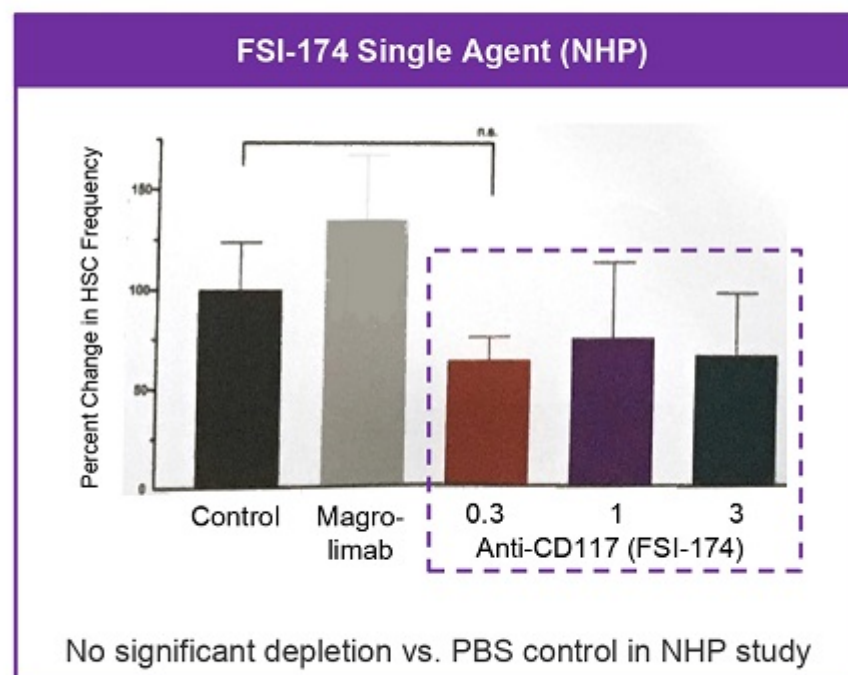
Transient HSC depletion at Day 10 from one representative NHP*



Other Anti-CD117 Antibodies Do Not Deplete HSCs From the Bone Marrow as a Single Agent In-Vivo



Boltano, et al., EBMT 2020



Marjon, et al., ASH 2019

JSP191 Validated in Multiple Disease Models Where HSC is Standard Curative Therapy



Severe combined immunodeficiency (SCID)



Hematologic Cancers (AML, MDS)



Sickle Cell Disease

Demonstrated robust pre-clinical data in multiple models of transplant and disease

- Disease: SCID, AML, MDS, Sickle Cell
- Transplant: Mouse, Non-human primate

Consistent JSP191 stem cell depletion followed by successful transplant and disease modification

- JSP191 alone and various combinations

Benign safety profile supporting use in infants, elderly and other fragile populations

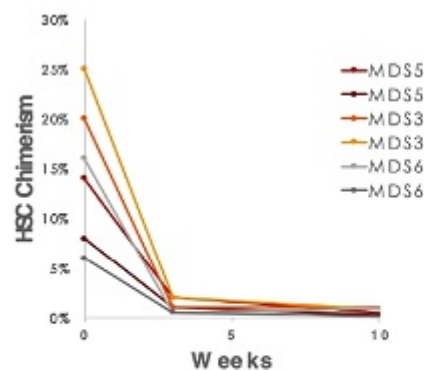
JSP191 Targets and Depletes Disease Initiating Stem Cells in MDS/AML



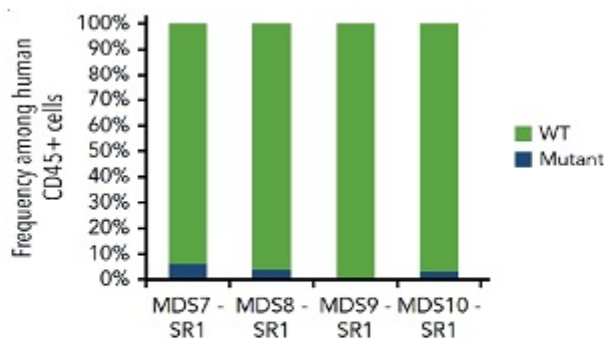
Anti-CD117 antibody depletes normal and myelodysplastic syndrome human hematopoietic stem cells in xenografted mice

Wendy W. Pang, Agnieszka Czechowicz, Aaron C. Logan, Rashmi Bhardwaj, Jessica Poyser, Christopher Y. Park, Irving L. Weissman and Judith A. Shizuru

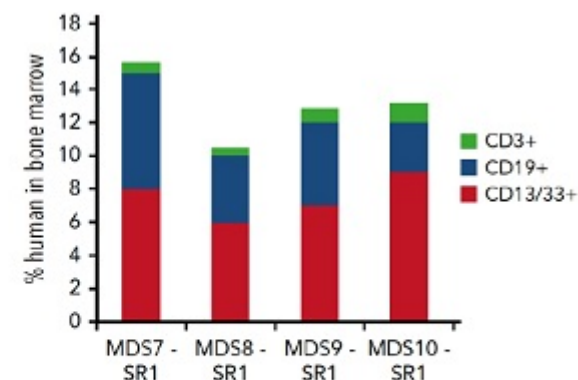
Depletes MDS stem cells



Normal stem cell engraftment



Normal blood formation



Anti-CD117 Validated in Multiple Disease Models Where HSC is Standard Curative Therapy



Severe combined immunodeficiency (SCID)

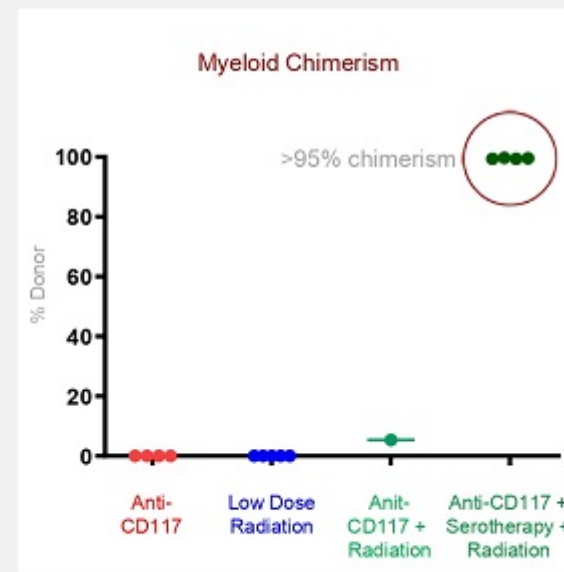
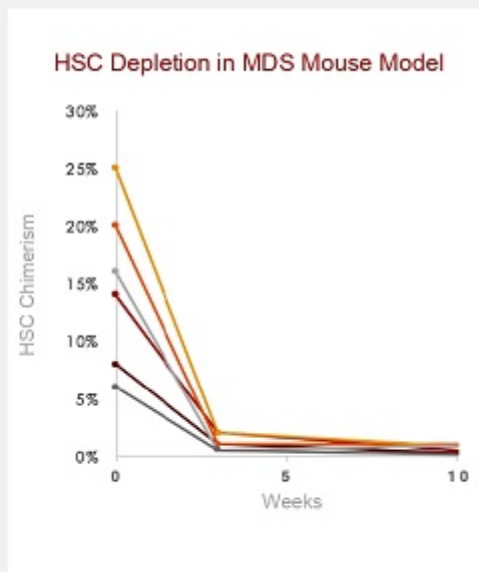


Hematologic Cancers (AML, MDS)



Sickle Cell Disease

Anti-CD117 Depletes MDS HSC and Synergizes With Low Dose Radiation To Increase Chimerism (Allogeneic MDS Mouse Model)



Anti-CD117 Validated in Multiple Disease Models Where HSC is Standard Curative Therapy



Severe combined immunodeficiency (SCID)

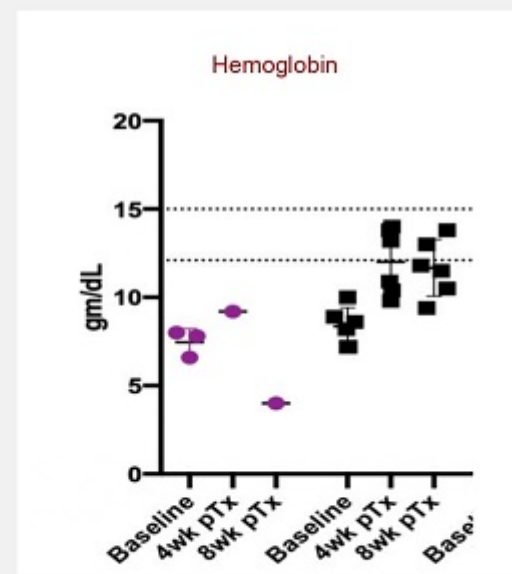
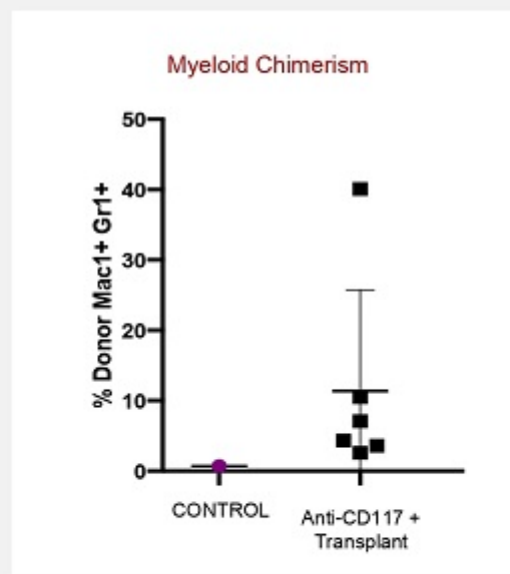


Hematologic Cancers (AML, MDS)

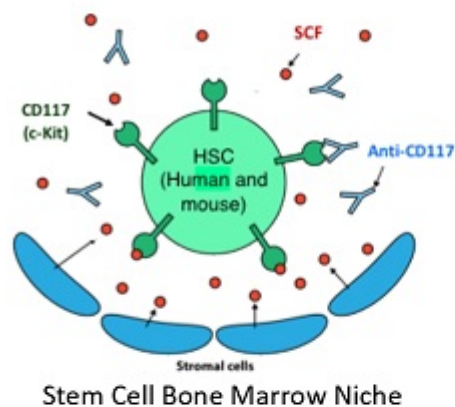


Sickle Cell Disease

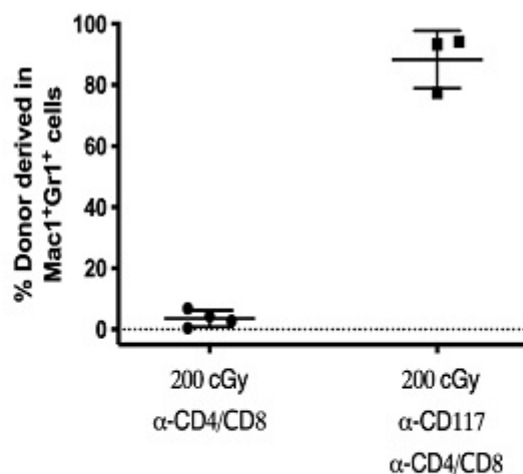
Anti-CD117 conditioning + transplant leads to normalization of hemoglobin in sickle cell model



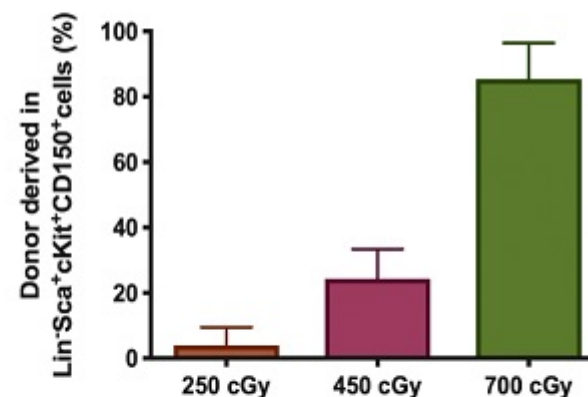
Anti-CD117 Ab Unique MOA: Synergy With Low Dose Radiation To Allow Engraftment Equivalent to High Dose Radiation



Anti-CD117 +
Low Dose Radiation



Radiation only



Chhabra et al. Sci Transl Med 8:351, 2016/ Poyser, unpublished

Anti-CD117 Validated in Multiple Disease Models Where HSC is Standard Curative Therapy



Severe combined immunodeficiency (SCID)

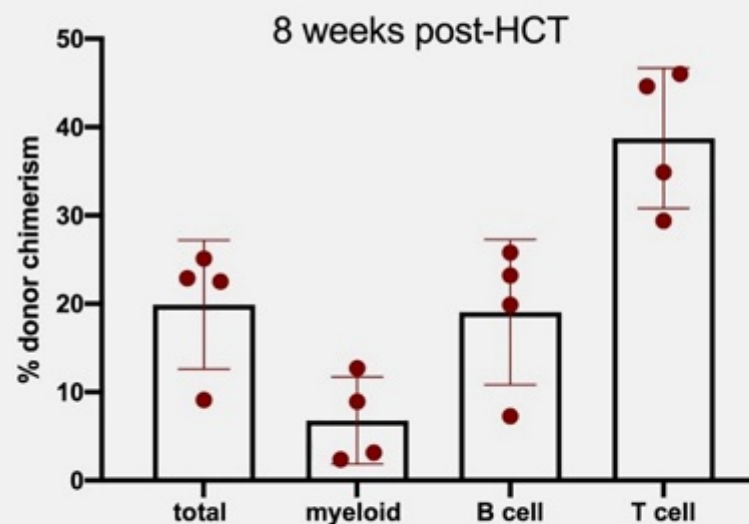


Hematologic Cancers (AML, MDS)



Sickle Cell Disease

Anti-CD117 + 5-Aza Enables HSC Engraftment in Inflamed Sickle Cell Model

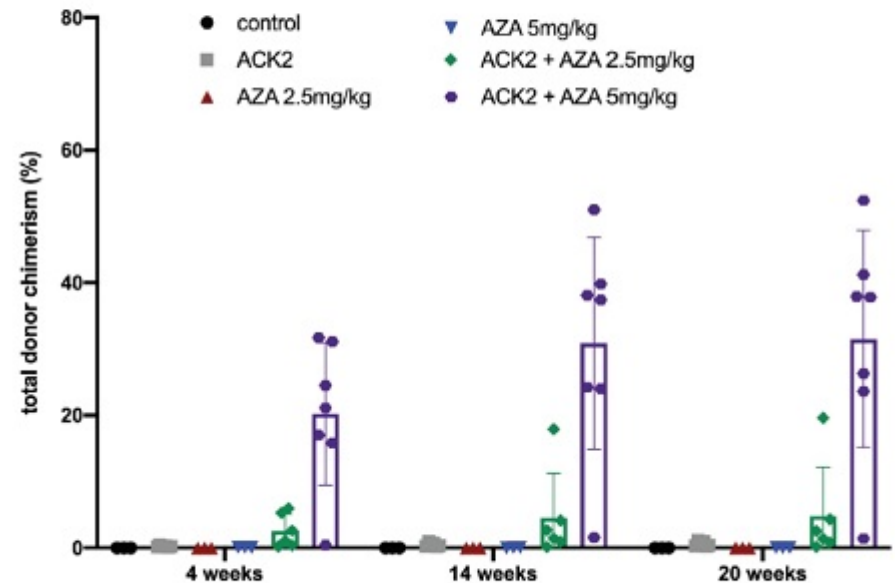


JSP191 + 5-Azacytidine Combination For Deep Non-Radiation Based Outpatient Conditioning



- New data showing synergistic effect of SCF blockade + 5-azacytidine on stem cell engraftment (Stanford)
- Widely available Sub-q / IV generic currently used to treat MDS
- JSP191 + Single cycle of 5-aza expected to be safe outpatient conditioning
 - Expected combination dose of 0.3-0.6mg/kg JSP191 + 5-aza 75 mg/m² for 5-7 days

CD117 blockade + 5-Aza Synergistic Effect on Congenic Stem Cell Engraftment in Immune Competent Mice



JSP191 SCID Study Safety and Tolerability Leading to FDA Amendment Allowing for Outpatient Study



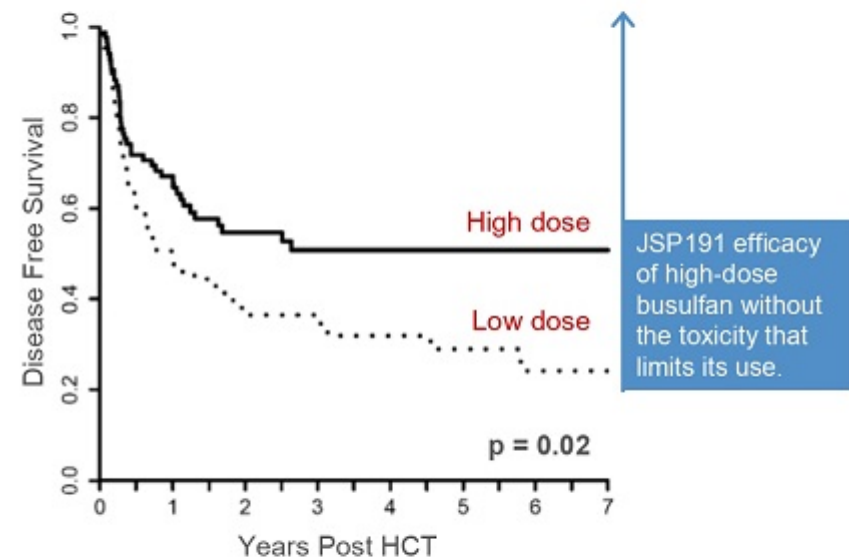
System Organ Class	Preferred Term	Total Number of Events by Dose Group			
		JSP 191 0.1 mg/kg	JSP 191 0.3 mg/kg	JSP 191 1.0 mg/kg	Total
General disorders and administration site conditions	Pyrexia	2	0	0	2
Infections and infestations	Bacteraemia	1	0	0	1
	Cellulitis staphylococcal	1	0	0	1
	Intestinal sepsis	1	0	0	1
	Pneumonia	0	0	1	1
Metabolism and nutrition disorders	Hypocalcaemia	1	0	0	1

- No significant infusional toxicities observed
- No antibody related toxicity
- No myelosuppression
- Re-transplant patients can be discharged 48 hrs after JSP191 administration, and followed as outpatient, including day of donor cell infusion

JSP191 Could Expand Use Curative Transplant in AML / MDS by Delivering a Less Toxic, Efficacious Conditioning Regimen



- Due to toxicities, full dose conditioning is reserved for younger and more fit patients
- Older (>60yrs) or sicker patients receive reduced dose conditioning or no transplant
- Reduced dose conditioning has higher rates of relapse (51% vs 28%, $p=0.02$) and lower 5-year survival (34% vs 53%, $p=0.02$)



Full (high) dose = 12.8 mg/kg Busulfan + 40 mg/m² Fludarabine

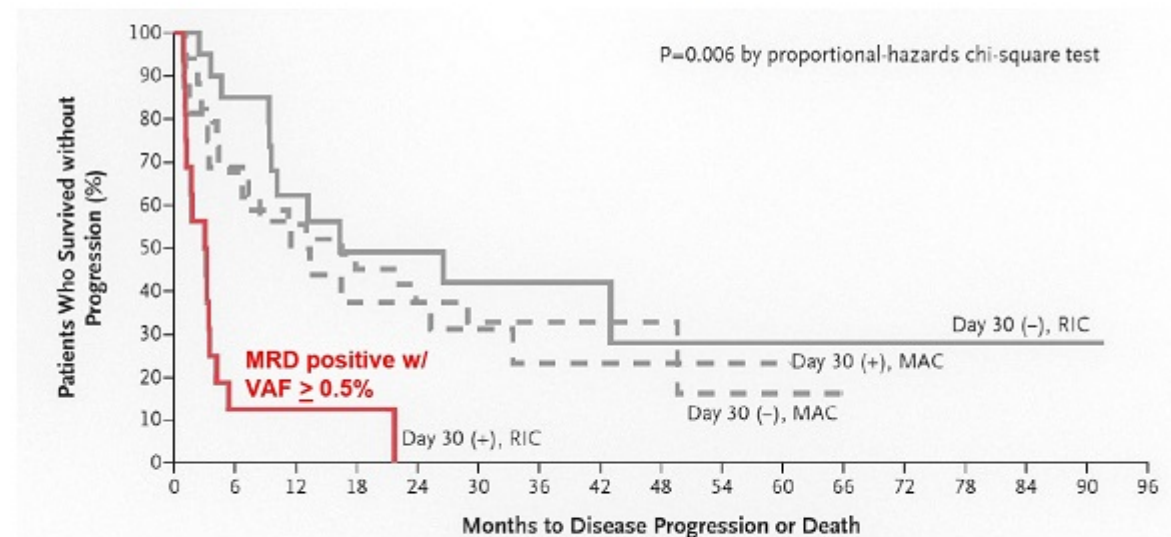
Reduced (low) dose = 6.4 mg/kg Busulfan + 40 mg/m² Fludarabine

Ann Hematol (2015) 94:1033–1041

Successful Conversion to MRD Negative Status Post-Allogeneic Transplant Correlates with Longer Survival in MDS Patients

- Post-transplant survival / relapse is predicted by measurement of residual disease (MRD)
- Patients with MRD mutation frequency of $>0.5\%$ at 30 days post-transplant have significantly higher risk of progression (53.1% vs. 13.0%, $p<0.0001$) and lower 1-year rate of progression free survival (31.3% vs 59.3%, $p=0.005$)
- MRD is an acceptable endpoint for potential FDA Accelerated Approval

Progression Free Survival of MDS Patients Post Stem Cell Transplant



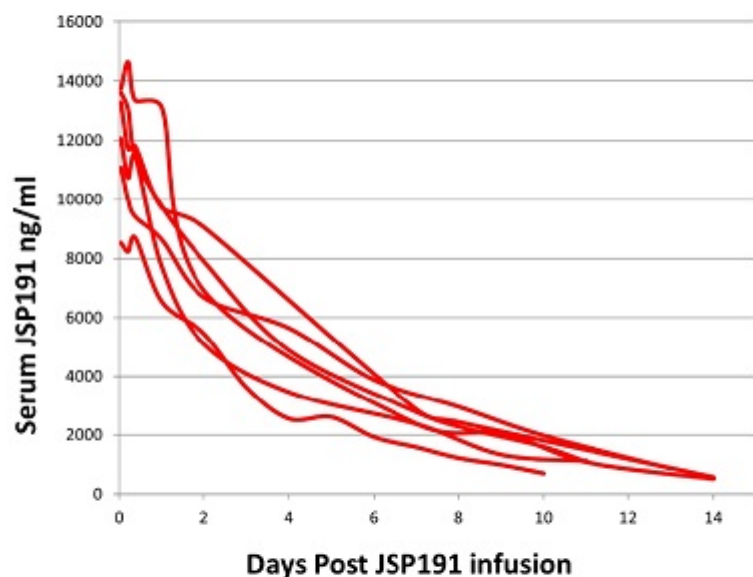
NEJM 2018; 379:1028-41

MDS/AML Subject Demographics (detailed)



Subject Number	Age Sex	Diagnosis	Prior Therapy for MDS or AML	Med History	Donor
003	74F	T-AML	Azacitidine/ Venetoclax	<ul style="list-style-type: none"> Breast Cancer with recurrence treated with Chemotherapy and Radiation therapy Hypothyroidism Osteopenia Depression/anxiety Arrhythmias (treated with propranolol) MPN (JAK2+) 	Matched unrelated
004	70M	MDS	Erythropoietin	<ul style="list-style-type: none"> Pre-diabetic Hypertension 	Matched related
005	68M	MDS	Azacitidine	<ul style="list-style-type: none"> Atrial Fibrillation Hypertension Hypertrophic Cardiomyopathy Supraventricular tachycardia 	Matched unrelated
009	74M	MDS	None	<ul style="list-style-type: none"> Umbilical hernia repair No significant PMx 	Matched unrelated
010	65M	AML + FLT3	Idarubicin/ Midostaurin Azacitidine/ Venetoclax	<ul style="list-style-type: none"> Type-2 Diabetes Peripheral neuropathy Hyperlipidemia Hypertension 	Matched unrelated
011	69M	AML	Cytarabine/ Daunorubicin (7+3) Cytarabine/ Daunorubicin (5+2)	<ul style="list-style-type: none"> Type-2 Diabetes Hypertension Diverticulitis 	Matched related

JSP191 PK at 0.6 mg/kg was Observed to be Consistent Among AML/MDS Subjects (N = 6)



Observed half-life

71.0 hours

**Clearance time to donor graft
infusion**

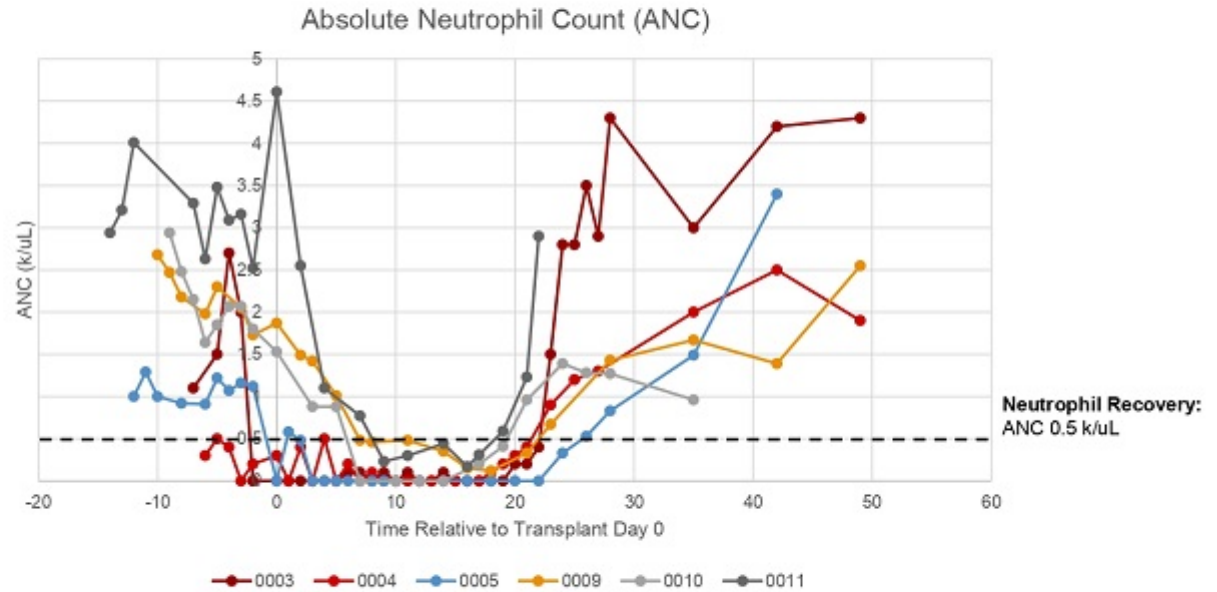
10-12 days

Muffly et al, TCT2021 Late Breaking abstract (#LBA5)

JSP191 AML/ MDS Neutrophil Recovery



Subject Number	Screening ANC ¹ (k/uL)
0003	0.1
0004	0.5
0005	0.07
0009	2.93
0010	1.2
0011	4.14



¹ Screening values at baseline, prior to administration of JSP191

JSP191 AML / MDS Study Chimerism to 90days

Subject Number	Donor Chimerism at TD+28				Donor Chimerism at TD+56				Donor Chimerism at TD+90			
	Total	CD15	CD3	CD56	Total	CD15	CD3	CD56	Total	CD15	CD3	CD56
003	97%	98%	72%	97%	96%	99%	64%	98%	96%	100%	80%	97%
004	95%	100%	71%	77%	97%	99%	73%	83%	95%	98%	69%	87%
005	81%	100%	33%	94%	96%	100%	40%	99%	98%	100%	52%	99%
009	86%	99%	9%	78%	86%	99%	11%	85%	87%	97%	10%	87%
010	91%	97%	40%	86%	96%	100%	65%	94%	<i>Subject still on study</i>			
011	90%	94%	60%	90%	<i>Subject still on study – assessments TBD</i>							

Table data reflected in graphs: A: Total cell chimerism, **B:** CD15+ Myeloid Cell Chimerism, **C:** CD3+ T Cell Chimerism, **D:** CD56 NK Cell Chimerism.

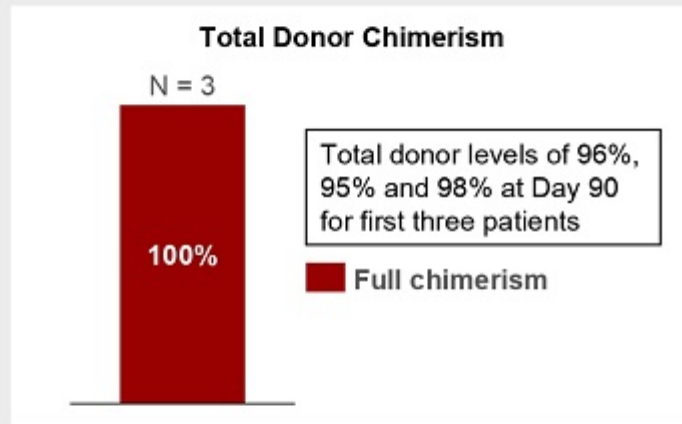
MDS/AML: Elimination of MRD Suggests Successful Targeting of Diseased Stem Cells using JSP191/TBI/Flu (Biomarker for Positive Outcomes)



Subject Number	MRD at Screening	MRD at TD+28	MRD at TD+56	MRD at TD+90
	NGS, Flow, or Cyto	NGS, Flow, or Cyto	NGS, Flow, or Cyto	NGS, Flow, or Cyto
003 – T-AML	DNMT3A (VAF: 4.7%)	DNMT3A (VAF: 0.3%)	DNMT3A (VAF: 0.4%)	NEG
	RUNX1 (VAF: 1.7%)	RUNX1 (VAF: 0.3%)	RUNX1 (VAF: 0.3%)	NEG
	PTPN11 (VAF: 0.7%)	NEG	NEG	NEG
004 - MDS	ASXL1 (VAF: 0.3%)	NEG	ND	NEG
	PTPN11 (VAF: 0.4%)	NEG	ND	NEG
	Del(20q)	NEG	ND	NEG
005 - MDS	DNMT3A (VAF: 25.2%)	NEG	ND	NEG
	SRSF2 (VAF: 0.3%)	NEG	ND	NEG
	Flow 3.1%	NEG	ND	NEG
009 - MDS	Complex Cytogenetics	QNS	NEG	NEG
	Flow 0.7%	NEG	NEG	NEG
010 – AML + FLT3	ASXL1 (VAF: 1.5%)	NEG	NEG / RUNX1 (0.3%)	<i>Subject still on study – assessments TBD</i>
	KMT2A duplication	KMT2A duplication	KMT2A duplication	
011 - AML	SRSF2 (VAF: 14.6%)	SRSF2 (VAF: 0.69%)	<i>Subject still on study – assessments TBD</i>	

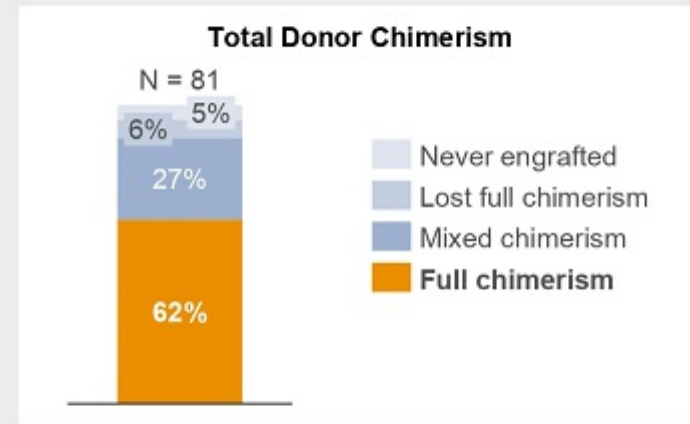
JSP191 Total Donor Chimerism at Day 90 vs. TBI/Flu Alone

JSP191 + TBI/Flu (Jasper)



3 out of 3 patients achieved full chimerism >95% by Day 90

TBI/Flu Alone



62% of patients demonstrated full chimerism after RIC with 2 Gy TBI/Flu

1 Eggimann L, Girsberger S, Halter J, et al. Kinetics of peripheral blood chimerism for surveillance of patients with leukemia and chronic myeloid malignancies after reduced-intensity conditioning allogeneic hematopoietic SCT. *Bone Marrow Transplant.* 2015;50(5):743-745.

After RIC with TBI/Flu, 38% Patients Fail to Demonstrate Full Chimerism, Which Predicts Significantly Worse Survival

Chimerism is universally used to monitor engraftment after hematopoietic SCT (HSCT)

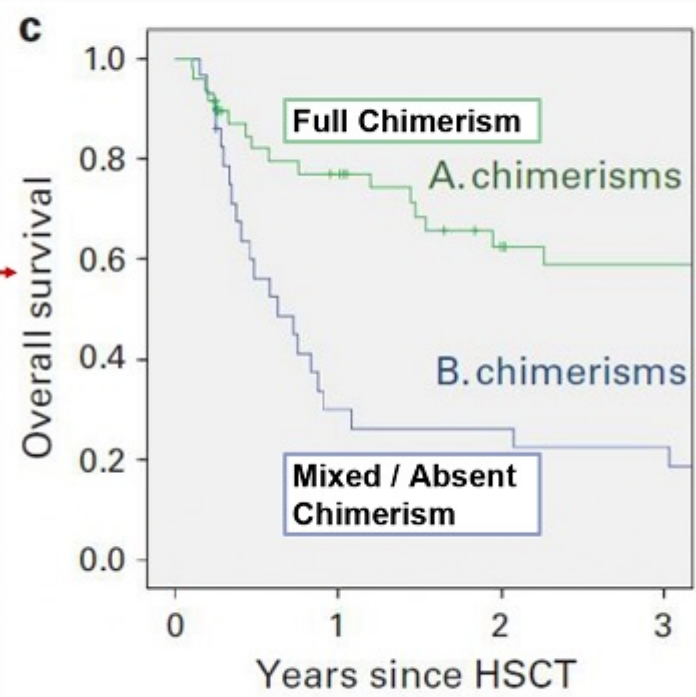
- It is valuable for predicting graft failure, rejection as well as relapses in malignant diseases

For patients achieving full donor chimerism, a significant benefit in survival was observed

- 3-year OS was 63% vs. 23% for patients who did not reach or lost full donor chimerism ($P < 0.0001$)

27 of 77 patients (38%) failed to demonstrate full chimerism after RIC with 2 Gy TBI + Fludarabine

- Full chimerism defined as $>95\%$ in peripheral blood during the follow-up

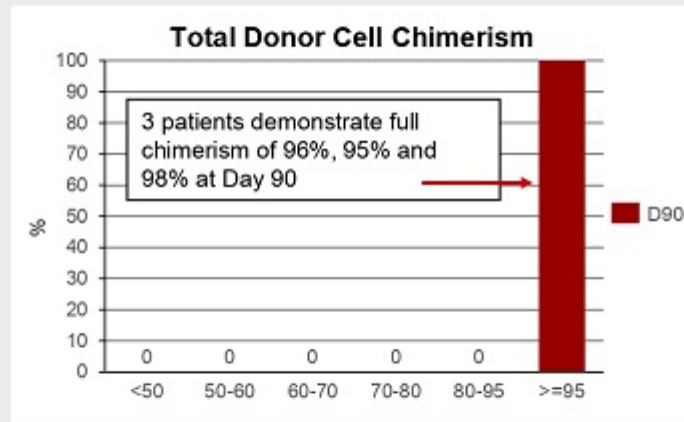


Source: Eggimann L, Girsberger S, Halter J, et al. Kinetics of peripheral blood chimerism for surveillance of patients with leukemia and chronic myeloid malignancies after reduced-intensity conditioning allogeneic hematopoietic SCT. *Bone Marrow Transplant.* 2015;50(5):743-745.

JSP191 Total Donor Chimerism at Day 90 vs. Regimens Containing RIC Busulfan

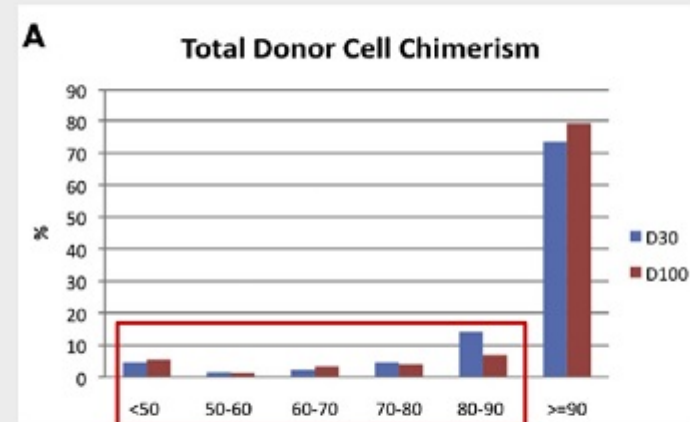


JSP191 + TBI/Flu (Jasper)



3 out of 3 patients achieved full chimerism >95% by Day 90

RIC Busulfan (Dana Farber¹)

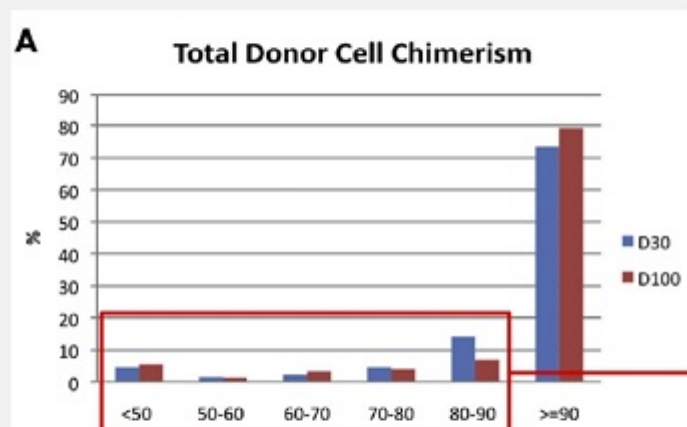


~20% of patients failed to achieve >90% total donor chimerism by Day 100¹

¹ Koreth J, Kim HT, Nikiforow S, et al. Donor chimerism early after reduced-intensity conditioning hematopoietic stem cell transplantation predicts relapse and survival. Biol Blood Marrow Transplant. 2014;20(10):1516-1521.

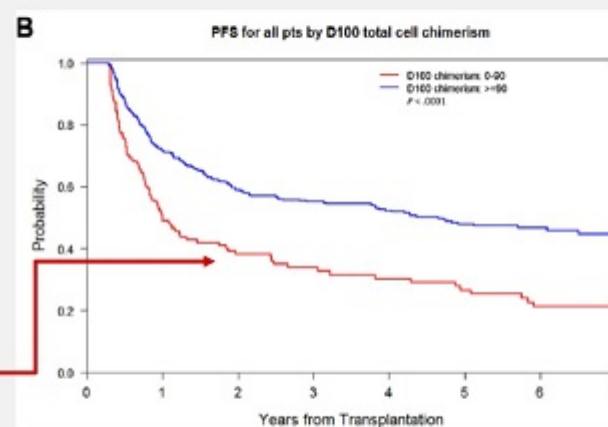
~80% Achieve >90% Donor Chimerism After RIC Busulfan Which is Associated with PFS and Survival

~20% of patients failed to achieve >90% total donor chimerism by D100...



- Recipients received **RIC fludarabine + busulfan**
- 688 patients were studied with hematologic malignancies, including lower-risk diagnoses like CLL and NHL with median age of 57

... Failure to achieve >90% chimerism is associated with impaired PFS and worse OS



- Increased relapse (HR 2.54, P < .0001), impaired PFS (HR 2.01, P < .0001), and worse OS (HR 1.50, P = .009) are associated with patients that failed to achieve >90% donor cell chimerism by D100

Source: Koreth J, Kim HT, Nikiforow S, et al. Donor chimerism early after reduced-intensity conditioning hematopoietic stem cell transplantation predicts relapse and survival. Biol Blood Marrow Transplant. 2014;20(10):1516-1521.

JSP191 Development Starts with AML/ MDS Patients Not Eligible for Myeloablative Transplant and Expands Across Hematological Malignancies



JSP191 Development in AML/MDS and Other Heme Malignancies

Current

MRD-positive AML/MDS patients not eligible for myeloablative transplant

- **Phase 1 completed (n = 6)**
- **Phase 2 to open Q2 2021**
 - Expanded population including patients with active disease
 - Topline data: 1H 2022

Potential for expedited regulatory path



Future

AML/ MDS patients eligible for myeloablative transplant

- Superior safety with similar outcomes vs. busulfan based conditioning

Expand to other hematologic malignancies

Other heme malignancies treated with transplant – MPD, ALL, CML, NHL, Others

Potential JSP191 Paths to Registration for AML/ MDS Patients Not Eligible for Myeloablative Transplant



MRD Positive AML/MDS Patients Not Eligible for Standard Myeloablative Regimens (HCT-CI >2)

Single-Arm Pivotal Trial

AML/MDS
Active Disease
(n = 100)

JSP191 0.6mg/kg in combination with
low dose fludarabine and TBI

Potential Endpoints:

Complete Response

18-month Relapse-Free Survival

18-month Relapse-Rate

Two-Arm Randomized Pivotal Trial

AML/MDS in CR
MRD positive
(n = 150)

Randomize
(2:1)

JSP191 0.6mg/kg in combination with
low dose fludarabine and TBI

Reduced-intensity Conditioning (RIC)
Fludarabine + Busulfan or melphalan

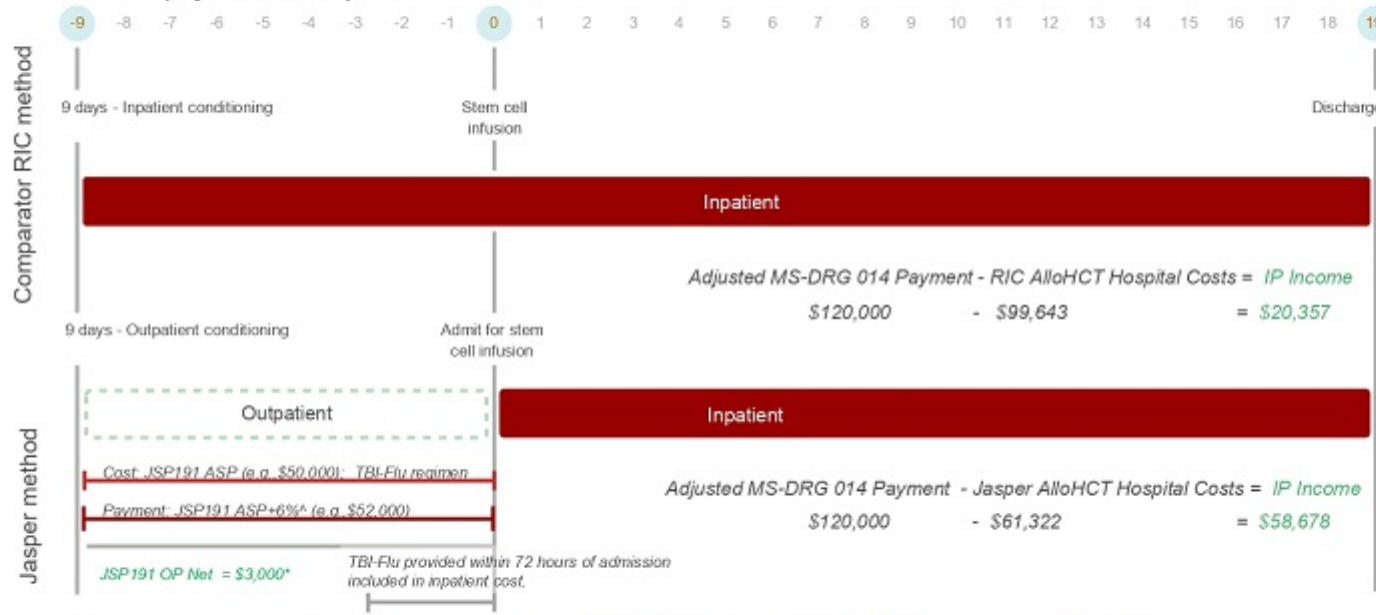
Early Endpoints that could support an accelerated approval:

- Improved safety relative to historical RIC regimens
- Resolution of MRD at 3- and 6-months post transplant
- Engraftment
- Chimerism

JSP191 Would Be Both Clinically and Financially Beneficial for Hospitals



Medicare payment example:



Jasper Model Net Total: \$3,000* (outpatient) + \$58,678 (inpatient) = \$61,678

Financial Assumptions:

- Inpatient length of stay based on mean of 27.2 days (CMS FY 2021 IPPS File, Table 5, MS-DRG 014 data)
- MS-DRG 014 FY 2021 Base Rate of \$82,000 adjusted for estimated academic medical center IMA, DSH and Wage Index
- Reduced Intensity Conditioning (RIC) AlloHCT Hospital Cost developed from removing 75% of busulfan costs from a standard AlloHCT myeloablative case cost
- Jasper AlloHCT Hospital Case Cost developed from removal of full busulfan costs from a standard AlloHCT myeloablative case, with the addition of Total Body Irradiation and 2 days of Fludarabine costs (due to CMS 72-hour rule) and adjusted for an 18.2-day inpatient stay.
- Both models assume separate payment for donor cell acquisition costs

Key benefits

Patient benefits

- ✓ 9 fewer days in the hospital
- ✓ Less cumulative toxicity
- ✓ Fewer complications and/or side effects

Hospital benefits

- ✓ 9-day reduction in inpatient costs
- ✓ Significant conditioning costs removed from MS-DRG payment
- ✓ Outpatient payment of ASP + 6%* fee for JSP191 for non-340B purchasing providers*

*Has not been adjusted for Sequestration.

*Under the Medicare outpatient prospective payment system, non-340B hospitals are paid ASP+6%; 340B hospital programs are reimbursed at -22.5%.

JSP191 Intellectual Property and Exclusivity



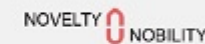
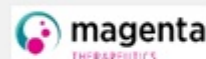
- Amgen: WW license on molecule and COM IP
- Stanford: IP on use as conditioning agent, combinations, dosing
- Regulatory exclusivity expected to 2036

JSP191 CMC



- CMC process successfully transferred from Amgen to Lonza
- First Lonza drug substance batch run at commercial scale and released at GMP
- Initial pilot scale biochemical comparability complete, commercial scale comparability ongoing
- Validation activities started

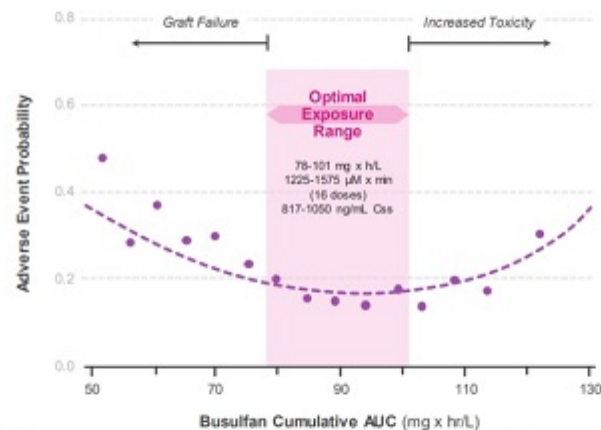
Competitive Landscape: JSP191 is a Highly Differentiated, First-in-Class Anti-CD117 Antibody for Transplant Conditioning



Program	JSP191 Anti-CD117 mAb	LOP628 Anti-CD117 ADC (TERMINATED)	GS-0174 Anti-CD117	MGTA-117 Anti-CD117 ADC	CDX-0159 Anti-CD117	NN2101 Anti-CD117
Competitive positioning	<ul style="list-style-type: none"> First-in-class Single agent and/or combination 	<ul style="list-style-type: none"> Maytansine payload via non-cleavable linker 	<ul style="list-style-type: none"> Combination approach with anti-CD47 	<ul style="list-style-type: none"> Amanitin payload 	<ul style="list-style-type: none"> Inhibit KIT in mast cells 	<ul style="list-style-type: none"> Inhibit KIT in endothelial cells
Stage of development	<ul style="list-style-type: none"> Ph 2 in SCID and AML/MDS 	<ul style="list-style-type: none"> Terminated Ph 1 in AML or KIT+ solid tumors (2015) 	<ul style="list-style-type: none"> Ph 1a in healthy volunteers 	<ul style="list-style-type: none"> Preclinical 	<ul style="list-style-type: none"> Ph 1b in mast cell diseases 	<ul style="list-style-type: none"> Preclinical study in wet AMD
Efficacy	<ul style="list-style-type: none"> SCID: Clinical POC MDS/AML: Clinical POC 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Preclinical effect in combination 	<ul style="list-style-type: none"> Preclinical in vivo activity 	<ul style="list-style-type: none"> Reductions of plasma tryptase, consistent with mast cell suppression 	<ul style="list-style-type: none"> Preclinical in vivo activity
Safety	<ul style="list-style-type: none"> Safety established in pediatric and elderly comorbid patients 	<ul style="list-style-type: none"> Mast cell degranulation Grade 2-3 hypersensitivity reactions in first 3 of 3 patients 	<ul style="list-style-type: none"> Anti-CD47 on-target anemia 	<ul style="list-style-type: none"> Highly toxic payload (hepatotoxic, nephrotoxic) 	<ul style="list-style-type: none"> Mild infusion-related reactions Mild/asymptomatic decreases in neutrophil and WBC 	<ul style="list-style-type: none"> N/A
Outpatient use	<ul style="list-style-type: none"> Protocol allows for outpatient use 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A

Targeted Busulfan Conditioning Still Results in Significant Toxicities

Bu90 dosing is targeted based on Bartelink et al. meta-analysis¹...



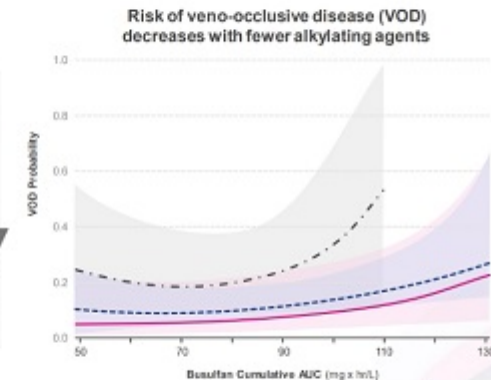
- Most patients receiving IV busulfan in this retrospective analysis (n=674) already below 90 mg*h/L – median 74.4 mg*h/L¹
- Event-Free Survival defined as survival from HCT to graft failure, relapse or death; Acute toxicity limited to VOD and GVHD

¹ Bartelink IH et al., Lancet Haematol, 2016
² AVROBIO R&D Day, November 2020

...Yet meaningful reduction in chemotoxic effect has not been demonstrated²

VOD:

Number of alkylating agents
 1 : Bu
 2 : Bu/Cy and Bu/Flu
 3 : Bu/Cy/Mel
 Shaded regions indicate 95% confidence interval
 Cy, Flu and Mel immunodeplete with full immunological recovery typically taking years



- No significant VOD difference for Bu vs. Bu/Cy and Bu/Flu

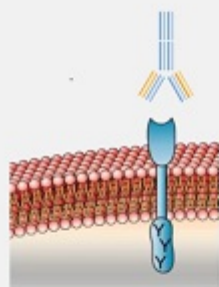
Other Tox:

- No demonstrated benefit in infertility – “infertility risk from Busulfan in gene therapy continues to be studied”
- No demonstrated benefit in cardiac tamponade, pulmonary fibrosis, cellular dysplasia

Toxin Linked CD117 Approaches Have Significant Challenges With Off-Target Toxicity, Manufacturing and Development

JSP191

Blocks SCF Binding to CD117 Receptor

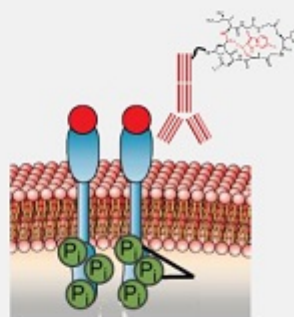


CD117 Signal Inhibition

Targeted Stem Cell Depletion

Toxic Payload

Binds to all CD117 Expressing Cells



No CD117 Signal Inhibition

Toxin Internalized on Mast Cells, Germ Cells, Melanocytes, etc.

JSP191 specifically depletes Stem Cells

- JSP191 blocks SCF survival signal on Stem Cells
- MOA synergistic with radiation, azacytidine, CD47
- Aglycosylated – no significant effect on mast cells, germ cells, etc.

Toxin linked CD117 antibodies have potential off-target effects and are complex to develop

- Toxin will injure / deplete all cells with CD117 including mast, germ, melanocytes, etc.
- Complex manufacturing – payload / linker characterization, payload manufacturing, stability
- Complex development - full characterization of payload accumulation, metabolism as well as linker stability
- No drugs in the clinic with this linker / payload combination

JSP191 vs. MGTA-117 in NHP Model

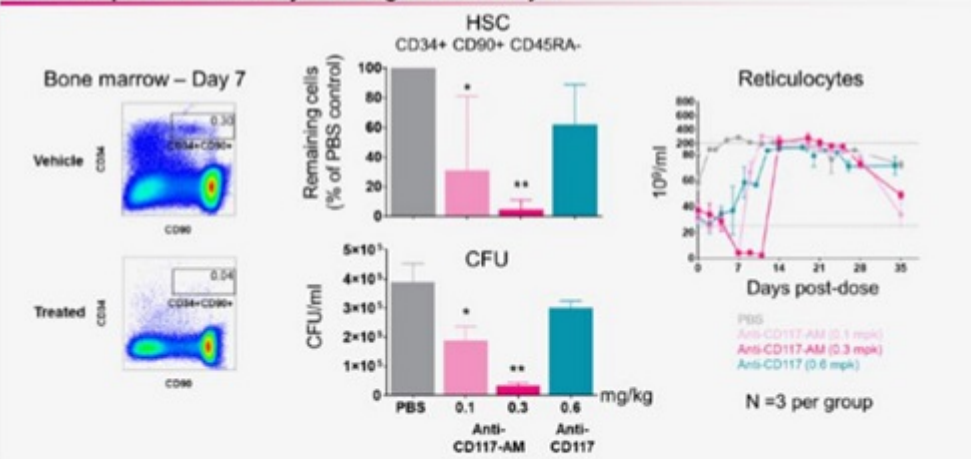
JSP 191

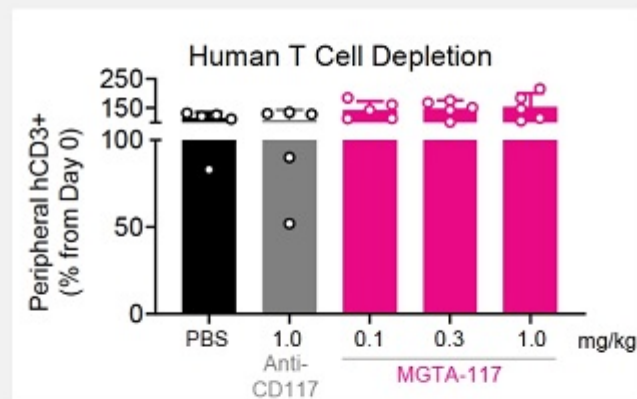
CD34⁺CD90⁺ HSC Depletion in NHP after JSP191

NHP # - AMG 191 dose	HSC depletion day 7	HSC depletion day 10
#1 0.1 mg/kg	71%	94%
#2 0.1 mg/kg	96%	86%
#3 1.0 mg/kg	79%	78%
#4 1.0 mg/kg	94%	97%

Magenta Anti-CD117 ADC

The Engineered Anti-CD117-Amanitin ADC Effectively Depletes Target Cell Populations in Cynomolgus Monkeys





Depletion of patient's T-cells is required for allogeneic transplant

- Patient's T-cells will attack donor graft, leading to graft failure
- Current strategies include: TBI + flu, Bu+Flu, Mel+flu, TLI

MGTA-117 does not deplete T-cells and will require combination therapy for allogeneic transplant

- TBI, TLI, Busulfan and Melphalan affect lymphocytes
- Unclear if fludarabine alone can sufficiently deplete patient T-cells prior to transplant

We Believe Jasper's Engineered Hematopoietic Stem Cells (eHSCs) Will Drive Cures, Decrease Toxicity, and Eliminate Post Transplant Immune Suppression



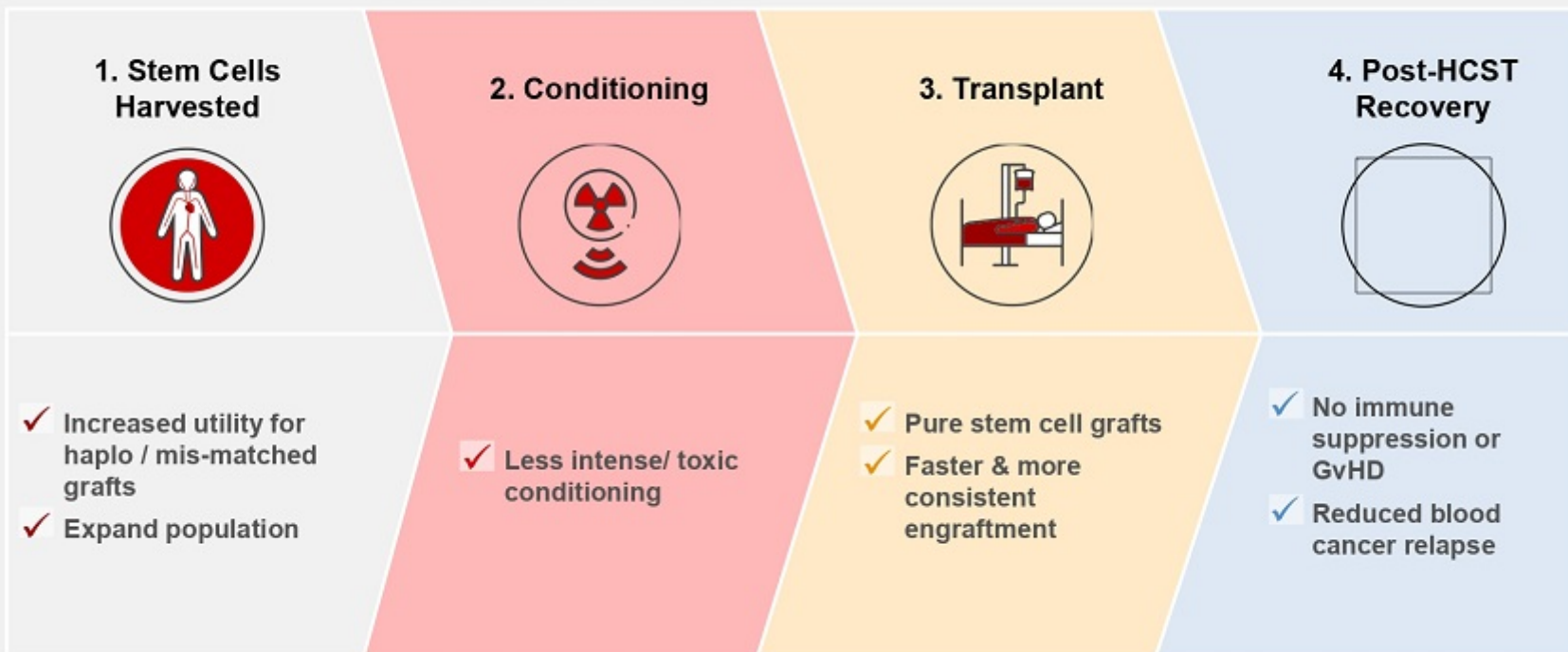
Next Steps for eHSCs

- Primary human CD34+ cell experiments with multiple engineering approaches
- Preclinical proof of concept in xenograft mouse model
- GLP production for IND enabling studies and GMP scale-up

Future Development

- Clinical proof of concept (allogeneic + gene-therapy)
- Expansion to additional patient populations

Jasper Engineered Hematopoietic Stem Cells (eHSCs) Improve Donor Stem Cell Engraftment From Donation to Recovery



Stem Cell Engineering: Only Jasper eHSC Designed to Increase Stem Cell Engraftment and Proliferation



Ensoma

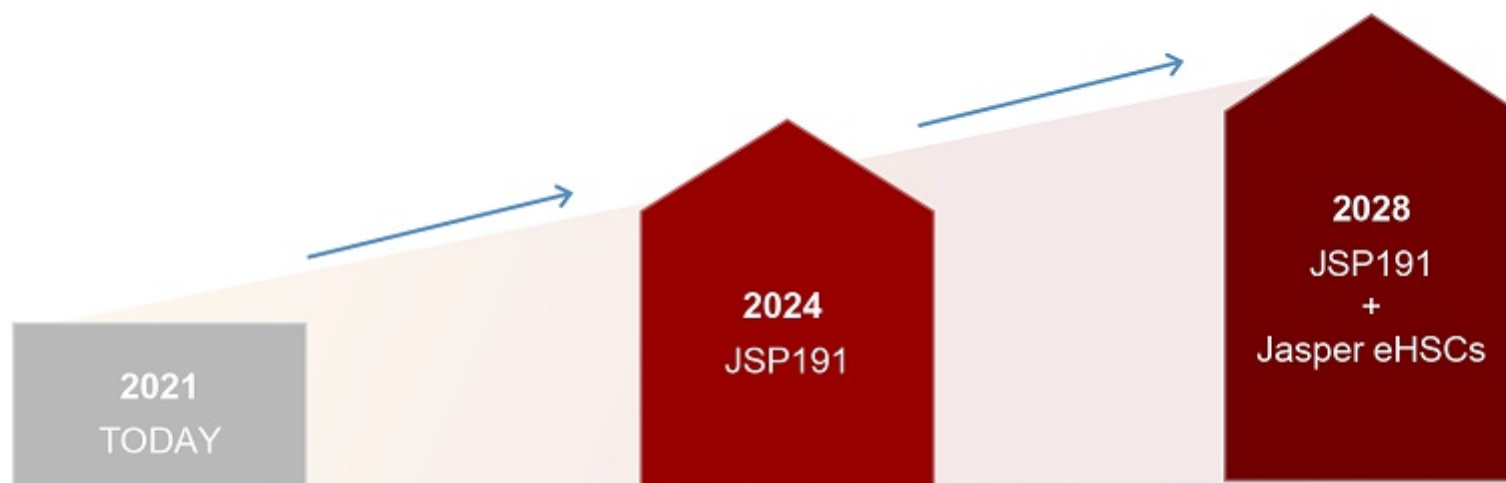
Program	Jasper eHSCs	VOR33 (CD33)	Hypoimmune Technology	In Vivo Gene Therapy
Competitive positioning	<ul style="list-style-type: none"> Cellular engineering leading to improved donor cell engraftment 	<ul style="list-style-type: none"> Treatment-resistant marrow cells that enable CD33 targeted therapy 	<ul style="list-style-type: none"> Hypoimmune cells designed to evade rejection 	<ul style="list-style-type: none"> In vivo gene therapy for stem cells
Stage of development	<ul style="list-style-type: none"> In-Vitro POC 	<ul style="list-style-type: none"> Preclinical 	<ul style="list-style-type: none"> Preclinical 	<ul style="list-style-type: none"> Preclinical
Efficacy	<ul style="list-style-type: none"> Jasper CD117 eHSCs show higher and more consistent proliferation vs. WT 	<ul style="list-style-type: none"> CD33del shows in vitro and in vivo resistance to CD33 	<ul style="list-style-type: none"> NHP: iPSCs do not elicit adaptive or innate response 	<ul style="list-style-type: none"> In vivo POC in mice with bioluminescence
Safety	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> Tox from myeloablative conditioning regimen (VOD, mucositis, secondary malignancy) 	<ul style="list-style-type: none"> Not yet validated with human iPSCs or differentiated cells 	<ul style="list-style-type: none"> Multiple rounds of toxic alkylators for conditioning AAV cytokine activation
Outpatient use	<ul style="list-style-type: none"> Potential for outpatient use with non-toxic conditioning 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A

Competitive Landscape: CD45 Targets Require Toxic or Radioactive Payloads Which Limit Safety as well as Ability to Manufacture/Distribute



Program	Iomab-B CD45 antibody radiation conjugate	MGTA-145 CD45 ADC	CD45 ETB Engineered toxin bodies
Competitive positioning	<ul style="list-style-type: none"> Anti-CD45 that is linked to radioisotope iodine-131 	<ul style="list-style-type: none"> Anti-CD45 linked to toxic payload 	<ul style="list-style-type: none"> Anti-CD45 that is conjugated to engineered Shiga-toxin
Stage of development	<ul style="list-style-type: none"> Ph3 SIERRA trial in R/R AML >55 	<ul style="list-style-type: none"> Preclinical 	<ul style="list-style-type: none"> Preclinical
Efficacy	<ul style="list-style-type: none"> Iomab-B arm demonstrates neutrophil and platelet engraftment (TCT21) 	<ul style="list-style-type: none"> Immune reset achieved in mouse model of autoimmune disease 	<ul style="list-style-type: none"> In vitro binding and internalization triggering cell death of target cells
Safety	<ul style="list-style-type: none"> Gamma radiation leads to sepsis, FN, mucositis 	<ul style="list-style-type: none"> Highly toxic payload (hepatotoxic, nephrotoxic) 	<ul style="list-style-type: none"> Highly toxic payload associated with hemolytic-uremic syndrome, watery diarrhea
Outpatient use	<ul style="list-style-type: none"> N/A – gamma radiation requires significant logistics (isolation, lead lined room) 	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A

Jasper's Success May Lead to Routine Hematopoietic Stem Cell Transplants For Hundreds of Thousands of Patients



- Curative
- Highly toxic conditioning
- Graft failures & GvHD
- Limited population

- Safe, outpatient conditioning
- Potential for less immunogenic grafts
- Expanded transplant population

- JSP191 safe outpatient conditioning
- Jasper eHSCs for improved transplant without hospitalization or GvHD
- Routine cure for hundreds of thousands of patients

Risk Factors



The list below of risk factors has been prepared solely for purposes of the proposed private placement transaction (the "Private Placement") as part of the proposed business combination (the "Business Combination") of Amplitude Healthcare Acquisition Corp. ("AMHC") and Jasper Therapeutics, Inc. ("Jasper"), and solely for potential investors in the Private Placement, and not for any other purpose. The risks presented below are certain of the general risks related to the businesses of Jasper, the Private Placement and the Business Combination, and such list is not exhaustive. The list below is qualified in its entirety by disclosures contained in future documents filed or furnished by Jasper and AMHC, with the U.S. Securities and Exchange Commission ("SEC"), including the documents filed or furnished in connection with the proposed transactions between Jasper and AMHC. The risks presented in such filings will be consistent with those that would be required for a public company in its SEC filings, including with respect to the business and securities of Jasper and AMHC and the proposed transactions between Jasper and AMHC, and may differ significantly from and be more extensive than those presented below.

Investing in securities (the "Securities") to be issued in connection with the Business Combination involves a high degree of risk. Investors should carefully consider the risks and uncertainties inherent in an investment in Jasper and in the Securities, including those described below, before subscribing for the Securities. If either Jasper cannot address any of the following risks and uncertainties effectively, or any other risks and difficulties that may arise in the future, Jasper's business, financial condition or results of operations could be materially and adversely affected. The risks described below are not the only ones Jasper faces. Additional risks that Jasper currently does not know about or that Jasper currently believes to be immaterial may also impair its business, financial condition or results of operations. You should review the investors' presentation and perform your own due diligence, prior to making an investment in AMHC or Jasper.

Risks Related to Jasper's Financial Position and Capital Requirements

Jasper has incurred significant net losses since its inception. Jasper expects to incur net losses for the foreseeable future and may never achieve or maintain profitability.

Jasper will need substantial additional funding. If Jasper is unable to raise capital when needed, it would be forced to delay, reduce or eliminate its research and product development programs or future commercialization efforts.

Jasper has a limited operating history and no history of commercializing pharmaceutical products, which may make it difficult to evaluate the prospects for its future viability.

Jasper has never generated revenue from product sales and may never be profitable.

Risks Related to the Development of Jasper's Product Candidates

Jasper is early in its development efforts. If Jasper is unable to advance its product candidates to obtain regulatory approval and ultimately commercialize its product candidates, or experiences significant delays in doing so, its business will be materially harmed.

Results of preclinical studies and early clinical trials may not be predictive of results of future clinical trials, and such results do not guarantee approval of a product candidate by regulatory authorities. In addition, Jasper's clinical trials to date have been limited in scope and results received to date may not be replicated in expanded or additional future clinical trials.

Clinical development involves a lengthy and expensive process, with an uncertain outcome. Jasper may incur additional costs or experience delays in completing, or ultimately be unable to complete, the development and commercialization of any product candidates.

Jasper may not be successful in its efforts to identify, develop and commercialize additional product candidates. If these efforts are unsuccessful, Jasper may never become a commercial stage company or generate any revenues.

Jasper may expend its limited resources to pursue a particular product candidate or indication and fail to capitalize on product candidates or indications that may be more profitable or for which there is a greater likelihood of success.

Jasper faces significant competition in an environment of rapid technological change, and there is a possibility that its competitors may achieve regulatory approval before Jasper or develop therapies that are safer or more advanced or effective than Jasper's, which may harm Jasper's financial condition and its ability to successfully market or commercialize its product candidates.

If any of Jasper's product candidates causes serious adverse events, undesirable side effects or unexpected characteristics, such events, side effects or characteristics could delay or prevent regulatory approval of the product candidate, limit its commercial potential or result in significant negative consequences following any potential marketing approval.

Risk Factors (cont'd)



Risks Related to the Regulatory Regime for Jasper's Product Candidates

Jasper has no experience as a company in obtaining regulatory approval for a drug.

The regulatory landscape that will govern Jasper's product candidates is uncertain; regulations relating to more established cellular therapy products are still developing, and changes in regulatory requirements could result in delays or discontinuation of development of its product candidates or unexpected costs in obtaining regulatory approval. The FDA and other governing bodies may disagree with Jasper's regulatory plan and it may fail to obtain regulatory approval of its product candidates.

Jasper's product candidates are complex and difficult to manufacture. Jasper could experience delays in satisfying regulatory authorities or production problems that result in delays in its development or commercialization programs, limit the supply of its product candidates, or otherwise harm its business.

If clinical trials of Jasper's product candidates it may identify and develop fail to demonstrate safety and efficacy to the satisfaction of regulatory authorities or do not otherwise produce positive results, Jasper may incur additional costs or experience delays in completing, or ultimately be unable to complete, the development and commercialization of such product candidates.

Even if Jasper completes the necessary clinical trials, it cannot predict when, or if, it will obtain regulatory approval to commercialize its product candidates in the United States or any other jurisdiction, and any such approval may be for a more narrow indication than Jasper seeks.

Interim "top-line" and preliminary results from Jasper's clinical trials that it may announce or publish from time to time may change as more patient data become available and are subject to audit and verification procedures that could result in material changes in the final data.

If Jasper experiences delays or difficulties in the enrollment of patients in clinical trials, the cost of developing product candidates could increase and its receipt of necessary regulatory approvals could be delayed or prevented.

Jasper may never obtain FDA approval for any of its product candidates in the U.S., and even if it does, Jasper may never obtain approval for or commercialize any of its product candidates in any other jurisdiction, which would limit Jasper's ability to realize their full market potential.

Risks Related to Jasper's Dependence on Third Parties

Jasper relies on third parties to conduct its preclinical and clinical trials and will rely on them to perform other tasks for it. If these third parties do not successfully carry out their contractual duties, meet expected deadlines or comply with regulatory requirements, Jasper may not be able to obtain regulatory approval for or commercialize its product candidates and its business could be substantially harmed.

Jasper is highly dependent on intellectual property licensed from third parties and termination of any of these licenses could result in the loss of significant rights, which would harm its business.

Jasper currently relies on a single manufacturer for its clinical supply of its product candidates. In the event of a loss of this manufacturer, or a failure by such manufacturer to comply with FDA regulations, Jasper may not be able to find an alternative source on commercially reasonable terms, or at all. In addition, third-party manufacturers and any third-party collaborators may be unable to successfully scale-up manufacturing of Jasper's current or future product candidates in sufficient quality and quantity, which would delay or prevent Jasper from developing its product candidates and commercializing approved products, if any.

Risk Factors (cont'd)



Risks Related to Jasper's Intellectual Property

Jasper's commercial success depends on its ability to obtain, maintain and protect its intellectual property and proprietary technology.

The patent protection Jasper obtains for its product candidates may not be sufficient enough to provide it with any competitive advantage or its patents may be challenged.

Patent terms may be inadequate to protect Jasper's competitive position on its product candidates for an adequate amount of time, and the lives of its patents may not be sufficient to effectively protect its product candidates and business. In addition, changes to patent law in the United States and other jurisdictions could diminish the value of patents in general, thereby impairing Jasper's ability to protect its product candidates.

If Jasper is unable to protect the confidentiality of its trade secrets, its business and competitive position may be harmed.

Third-party claims of intellectual property infringement, misappropriation or other violations may prevent or delay Jasper's product discovery and development efforts and have a material adverse effect on its business.

Jasper may become involved in lawsuits to protect or enforce its patents or other intellectual property, which could be expensive, time-consuming and unsuccessful.

Jasper may not be able to protect its intellectual property rights throughout the world.

Other Risk Factors Related to Jasper

The COVID-19 pandemic has caused, and could continue to cause, severe disruptions in the U.S., regional and global economies and could seriously harm Jasper's development efforts, increase its costs and expenses and have a material adverse effect on Jasper's business, financial condition and results of operations.

Jasper's internal computer systems, or those of its third-party vendors, collaborators or other contractors or consultants, may fail or suffer security breaches, which could result in a material disruption of its product development programs, compromise sensitive information related to its business or prevent Jasper from accessing critical information, potentially exposing it to liability or otherwise adversely affecting its business.

Jasper and its management have a limited track record as an operating company. Failures in the operational execution of the expected business plans may have a material impact on Jasper's commercial prospects. Further, if Jasper is not able to attract and retain highly-qualified personnel, it may not be able to successfully implement its business strategy.

If Jasper loses key management personnel, or if it fails to recruit additional highly skilled personnel, Jasper's ability to continue developing and identify and develop new or next generation product candidates will be impaired, which could result in delays in the development process, loss of market opportunities, make Jasper less competitive and have a material adverse effect on Jasper's business, financial condition and results of operations.

Jasper may be adversely affected by existing or future laws and regulations. Jasper is subject to the laws and regulations of the federal government and of various state, local and provincial government entities. These laws and regulations set very stringent requirements for the business. In addition, such laws and regulations are subject to change and amendment at any time. Jasper may incur significant expenses related to compliance with such laws and regulations and it may need to adjust rapidly to address changes in the regulatory framework applicable to its business. Jasper may fail to comply with federal, state, local and international regulations in its area of operation, and future regulations may impose additional requirements on its business. Jasper's business is subject to possible scrutiny from regulators, who may enforce existing or future regulations that impact the viability or attractiveness of its assets.

Jasper currently has limited marketing personnel. If Jasper is unable to establish effective marketing and sales capabilities or enter into agreements with third parties to market and sell its product candidates, if approved, Jasper may not be able to effectively market and sell its product candidates, if approved, or generate product revenues.

Jasper's commercial success depends upon attaining significant market acceptance of its product candidates, if approved, among physicians, patients, healthcare payers and operators of major clinics.

Jasper's business will ultimately depend on its ability to successfully generate revenues from its product candidates, if approved. Reimbursement for such products is subject to different regulatory regimes in different jurisdictions. If any of Jasper's product candidates is approved, an unfavorable reimbursement determination in any of the major markets could have a material impact on Jasper. Further, an unfavorable change in such regimes (e.g., price controls) could have a material impact on Jasper.

Risk Factors (cont'd)



Risks Related to the Private Placement

AMHC may be unable to raise sufficient capital in the Private Placement or otherwise obtain additional financing to complete the Business Combination or to fund the operations and growth of the combined company following the Business Combination (the "Combined Company").

The issuance of shares of the Combined Company's securities in connection with the Private Placement will dilute substantially the voting power of Combined Company's stockholders.

AMHC may issue shares of its Class A common stock upon the conversion of its Class B common stock at a ratio greater than one-to-one at the closing of the Business Combination as a result of the anti-dilution provisions contained in its amended and restated certificate of incorporation. Any such issuance would dilute the interest of the Combined Company's stockholders and likely present other risks.

Risks Related to the Business Combination

Each of AMHC and Jasper will incur significant transaction costs in connection with the Business Combination.

The consummation of the Business Combination is subject to a number of conditions and if those conditions are not satisfied or waived, the Business Combination agreement may be terminated in accordance with its terms and the Business Combination may not be completed.

The ability to successfully effect the Business Combination and the Combined Company's ability to successfully operate the business thereafter will be largely dependent upon the efforts of certain key personnel of Jasper. The loss of such key personnel could negatively impact the operations and financial results of the combined business.

Section 404 of the Sarbanes-Oxley Act will be applicable to the Combined Company after the Business Combination is consummated, and Jasper is only now beginning the costly and challenging process of compiling the system and processing documentation necessary to perform the evaluation of its internal control over financial reporting needed to comply with Section 404 of the Sarbanes-Oxley Act. The Combined Company's failure to timely and effectively implement controls and procedures required by Section 404 of the Sarbanes-Oxley Act could have a material adverse effect on its business.

There is no assurance that a stockholder's decision whether to redeem its shares for a pro rata portion of AMHC's trust account will put the stockholder in a better future economic position.

If the Business Combination's benefits do not meet the expectations of investors or securities analysts, the market price of AMHC's securities or, following the consummation of the Business Combination, the Combined Company's securities, may decline.

A market for the Combined Company's securities may not develop, which would adversely affect the liquidity and price of such securities.

There can be no assurance that the Combined Company's securities will be approved for listing on the Nasdaq Global Market ("Nasdaq") or that the Combined Company will be able to comply with the continued listing standards of Nasdaq.

Directors of AMHC have potential conflicts of interest in recommending that AMHC's stockholders vote in favor of the adoption of the Business Combination.

AMHC may redeem unexpired warrants prior to their exercise at a time that is disadvantageous to the holders of AMHC warrants, thereby making such warrants worthless. Further, even if the Business Combination is completed, there can be no assurance that AMHC's warrants will be in the money during their exercise period, and they may expire worthless.

If AMHC seeks stockholder approval of the Business Combination, its sponsor, directors, officers, advisors and their affiliates may elect to purchase shares or warrants from public stockholders, which may influence a vote on the Business Combination and reduce the public "float" of AMHC's Class A common stock or warrants.

If AMHC seeks stockholder approval of the Business Combination, its sponsor, officers and directors have agreed to vote in favor of such Business Combination, regardless of how its public stockholders vote.

The ability of AMHC's public stockholders to exercise redemption rights with respect to a large number of its shares could increase the probability that the Business Combination would be unsuccessful.

AMHC is not required to obtain an opinion from an independent investment banking firm or from an independent accounting firm, and consequently, its stockholders may have no assurance from an independent source that the price it is paying for the business is fair to AMHC from a financial point of view.

Legal proceedings in connection with the Business Combination, the outcomes of which are uncertain, could delay or prevent the completion of the Business Combination.

The Business Combination or Combined Company may be materially adversely affected by the recent COVID-19 outbreak.

Changes in laws or regulations, or a failure to comply with any laws and regulations, may adversely affect AMHC's and the Combined Company's business, including AMHC's and the Combined Company's ability to consummate the Business Combination, and results of operations.