

Determined to realize a future in which people with cancer live longer and better than ever before



AXATILIMAB CONFERENCE CALL | DECEMBER 2020

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# Syndax pipeline targets indications with significant unmet need

## SNDX-5613 Menin Inhibitor

- Acute leukemias
- Ph 1 data validates new target
- Ph 2 init expected early 2021
- Complete Ph 1 expected end of 1Q21 or April 2021
- Potential fast-to-market reg path

## Axatilimab Anti-CSF-1R mAB

- Macrophage driven diseases
- POC for cGVHD
- Initiation of pivotal trial expected by YE20
- Inflammatory/fibrotic franchise opportunity

## Development opportunities

- Focused on expanding pipeline through new asset acquisition

# Syndax pipeline addresses key areas of unmet need in cancer

SNDX-5613  
Menin  
inhibitor  
Leukemias

Axatilimab  
anti-CSF-1R  
mAB  
Chronic GVHD

Development  
Opportunities

# Expert participants

## Mukta Arora, M.D., M.S.

Professor of Medicine, Division  
of Hematology, Oncology and Transplantation,  
*University of Minnesota Medical School*



## Geoffrey Hill, M.D.

José Carreras/E. Donnell Thomas Endowed Chair for  
Cancer Research and Director of The Immunotherapy  
Integrated Research Center,  
*Fred Hutchinson Cancer Research Center*



# Agenda

## Introduction

Briggs W. Morrison, M.D., *Chief Executive Officer of Syndax*

## Summary of ASH data and select case studies

Mukta Arora, M.D., M.S.

## cGVHD biology and treatment landscape

Geoffrey Hill, M.D.

## Axatilimab cGVHD development path and closing remarks

Briggs W. Morrison, M.D.

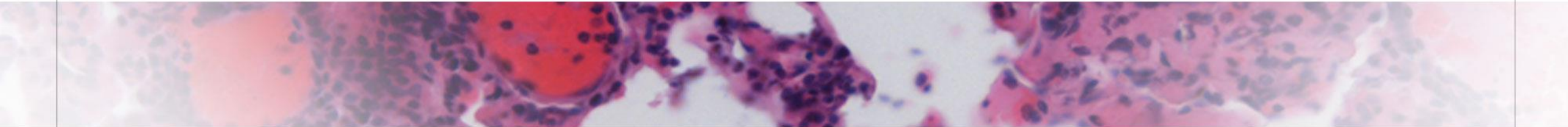
## Q&A session

- Guest speakers:
  - Mukta Arora, M.D. M.S. and Geoffrey Hill, M.D.
- Syndax:
  - Briggs W. Morrison, M.D.
  - Peter Ordentlich, Ph.D., *Chief Scientific Officer and Founder*
  - Michael Meyers M.D., Ph.D., *Chief Medical Officer*
  - Michael Metzger, *President and Chief Operating Officer*
  - Daphne Karydas, *Chief Financial Officer and Treasurer*
  - Anjali Ganguli, Ph.D., *Vice President, Corporate Development*



American Society of Hematology

Helping hematologists conquer blood diseases worldwide



## Phase 1 Study of Axatilimab (SNDX-6352), a CSF-1R Humanized Antibody, For Chronic Graft-Versus-Host Disease after 2 or More Lines of Systemic Treatment

Mukta Arora, MD MS<sup>1</sup>, Madan Jagasia, MD<sup>2</sup>, Antonio Di Stasi, MD<sup>3</sup>, Michael L. Meyers, MD PhD<sup>4</sup>, Christine Quaranto<sup>4</sup>, Serap Sankoh, PhD<sup>4</sup>,  
Mohamed Abu Zaid, MD<sup>5</sup>, Geoffrey Hill, MD<sup>6</sup>, Daniel J. Weisdorf<sup>1</sup>, Bruce R. Blazar, MD<sup>1</sup>, Peter Ordentlich, PhD<sup>4</sup>, Stephanie J Lee, MD MPH<sup>6</sup>

<sup>1</sup>University of Minnesota, <sup>2</sup>Vanderbilt University, <sup>3</sup>University of Alabama at Birmingham, <sup>4</sup>Syndax Pharmaceuticals, Inc, <sup>5</sup>Simon Cancer Center, Indiana University <sup>6</sup>Fred Hutchinson Cancer Research Center

# Chronic GVHD incidence and limited treatment options



**Chronic GVHD commonly affects 30-50% of allogeneic HCT recipients**

**Corticosteroids are the standard frontline treatment**

**Approximately 50% of the patients need second line treatment for disease progression or inadequate response**

**Ibrutinib is the only approved second line treatment of chronic GVHD**

**Morbidity and mortality in patients needing second or further lines of therapy remains high**

**Amongst patients with chronic GVHD, those with sclerosis and lung involvement are often difficult to treat and associated with poor outcomes**

**Development of novel agents to treat chronic GVHD remains an unmet medical need**

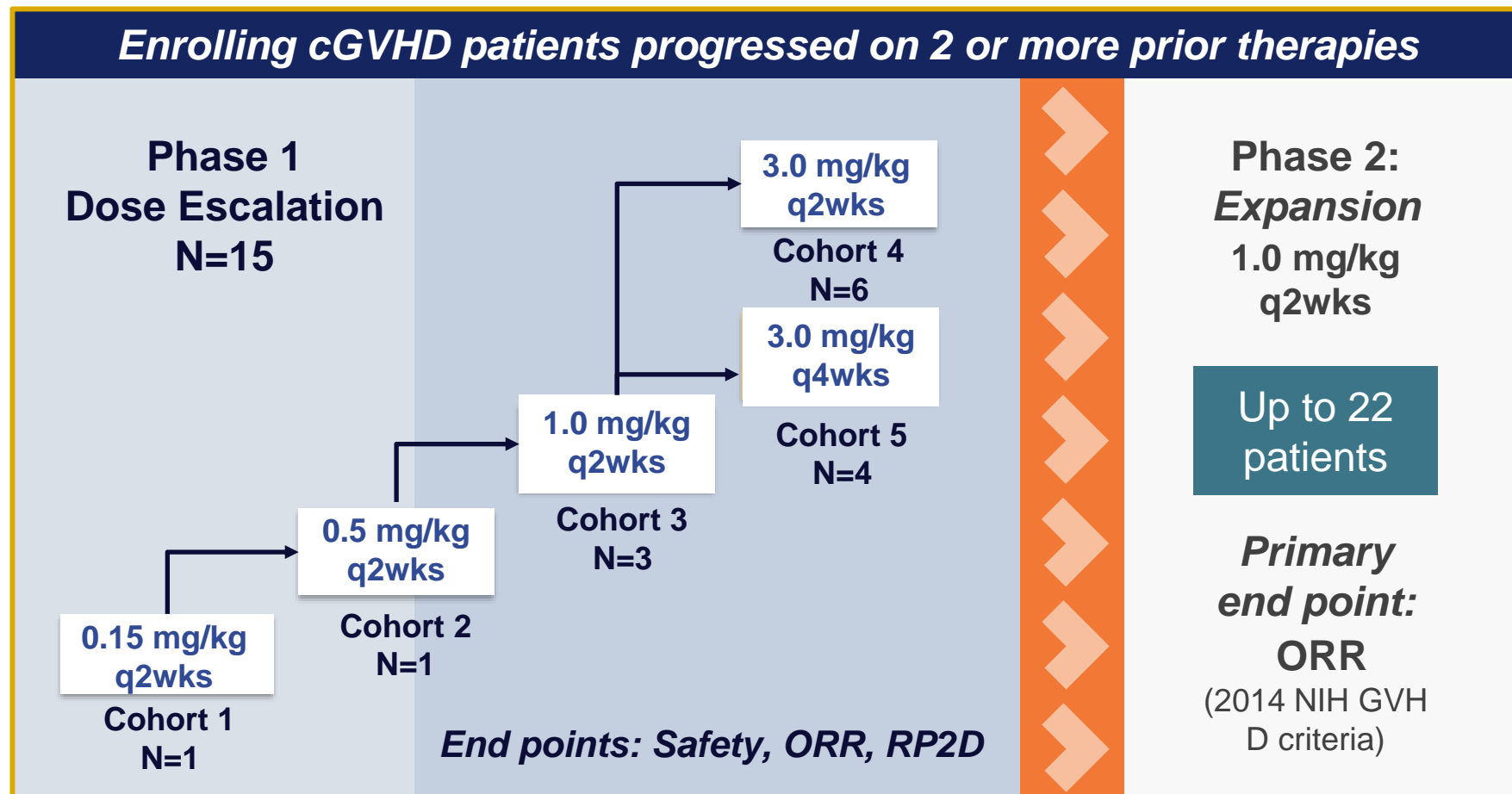
# Axatilimab: Phase 1 / 2 trial establishes proof of concept in cGVHD

## Study Population

Active cGVHD after  
≥ 2 prior treatments

Karnofsky  
Performance  
scale ≥ 60

≥ 6 years of age



# Baseline demographics & characteristics

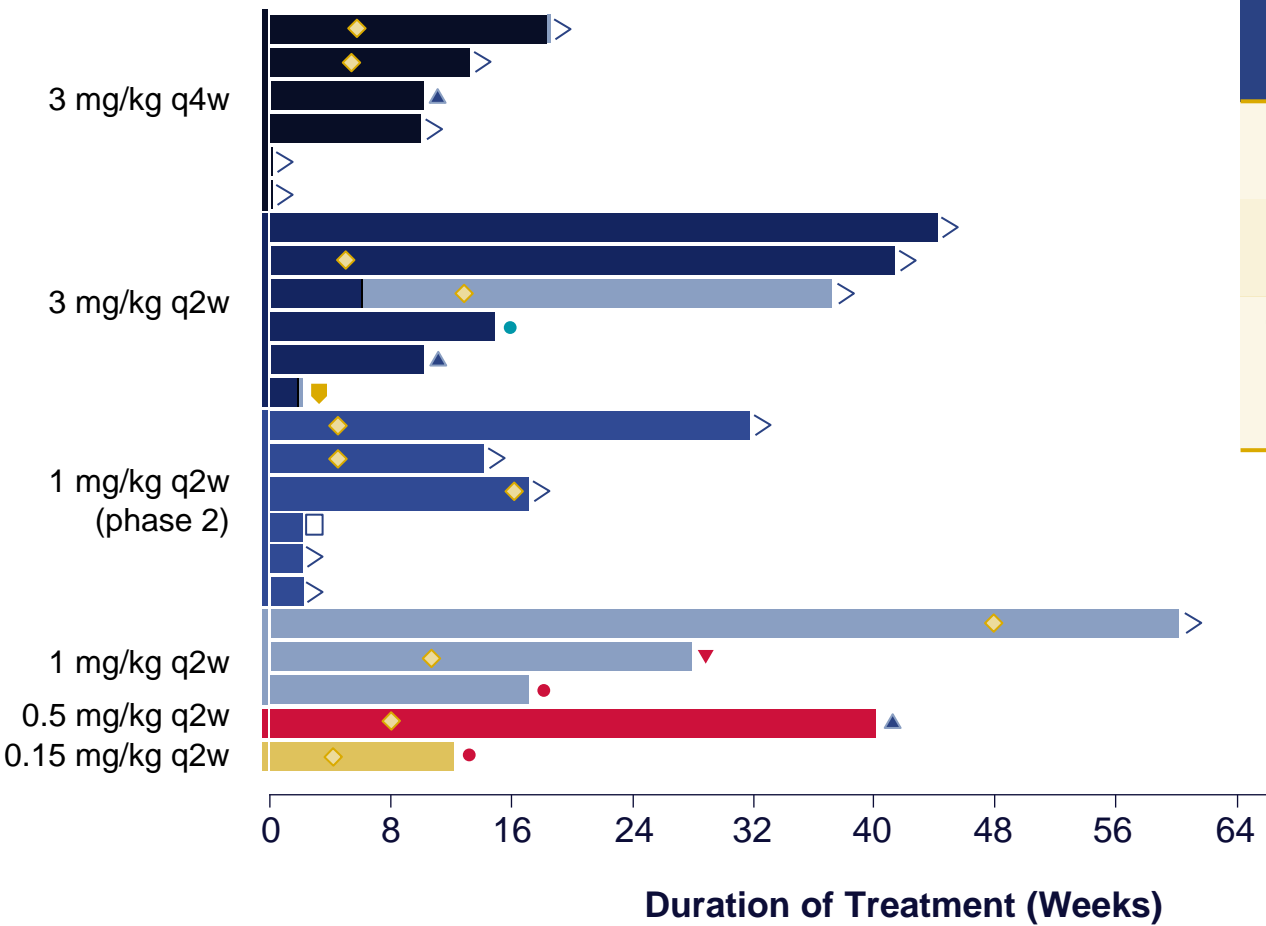


Characteristic	<1mg/kg q2wk n=2 <sup>1,2</sup>	1mg/kg q2wk n=3	3 mg/kg q2wk n=6	3 mg/kg q4wk n=4	Total N=15
Age, median (range), years	56 (48, 64)	36 (29, 66)	60 (53, 73)	63 (31, 73)	<b>60 (29, 73)</b>
Myeloablative transplant n, (%)	1 (50) <sup>2</sup>	1 (33)	2 (33)	3 (75)	<b>7 (47)</b>
Related Donor	2 (100)	2 (67)	4 (67)	1 (25)	9 (60)
Matched unrelated Donor	0	1 (33)	2 (33)	3 (75)	6 (40)
Peripheral blood SCT	2 (100)	3 (100)	5 (83)	4 (100)	<b>14 (93)</b>
Transplant→cGVHD, median (range), months	6.1 (3.4, 8.8)	3.7 (0.2, 5.7)	12.1 (5.2, 24.2)	9.2 (2.3, 20)	<b>6.8 (0.2, 24.2)</b>
cGVHD→C1D1	27 (18, 36)	46.8 (34.8, 85.2)	49.2 (20.4, 187.2)	25.2 (9.6, 42)	<b>42 (9.6, 187.2)</b>
KPS at enrollment, median (range)	85 (80, 90)	70 (70, 90)	75 (60, 80)	80 (70, 100)	<b>80 (60, 100)</b>
# organs involved, median (range)	3.5 (3, 4)	3 (2, 5)	4 (1, 5)	3.5 (2, 9)	<b>4 (1, 9)</b>
≥4 organs involved	1 (50) <sup>2</sup>	1 (33)	4 (67)	2 (50)	<b>8 (53)</b>
Prior tx, median (range)	5.5 (4, 7)	7 (4, 9)	4.5 (3, 7)	3 (2, 6)	<b>4 (2, 9)</b>
Ibrutinib, n (%)	2 (100)	3 (100)	6 (100)	0	<b>11 (73)</b>
Ruxolitinib	2 (100)	1 (33)	4 (67)	2 (50)	<b>9 (60)</b>
KD025	1 (50) <sup>2</sup>	1 (33)	3 (50)	0	<b>5 (33)</b>

<sup>1</sup> Includes one patient from 0.15mg/kg q2wk dosing cohort. <sup>2</sup> Includes one patient from 0.5mg/kg q2wk dosing cohort. Abbreviations: SCT=stem-cell transplant, KPS=Karnofsky Performance Score, tx=treatment, q=every  
Data cut-off 30Oct2020.

# Axatilimab: Early evidence of symptom control in the heavily pretreated patients

Phase 2 experience mirrors Phase 1



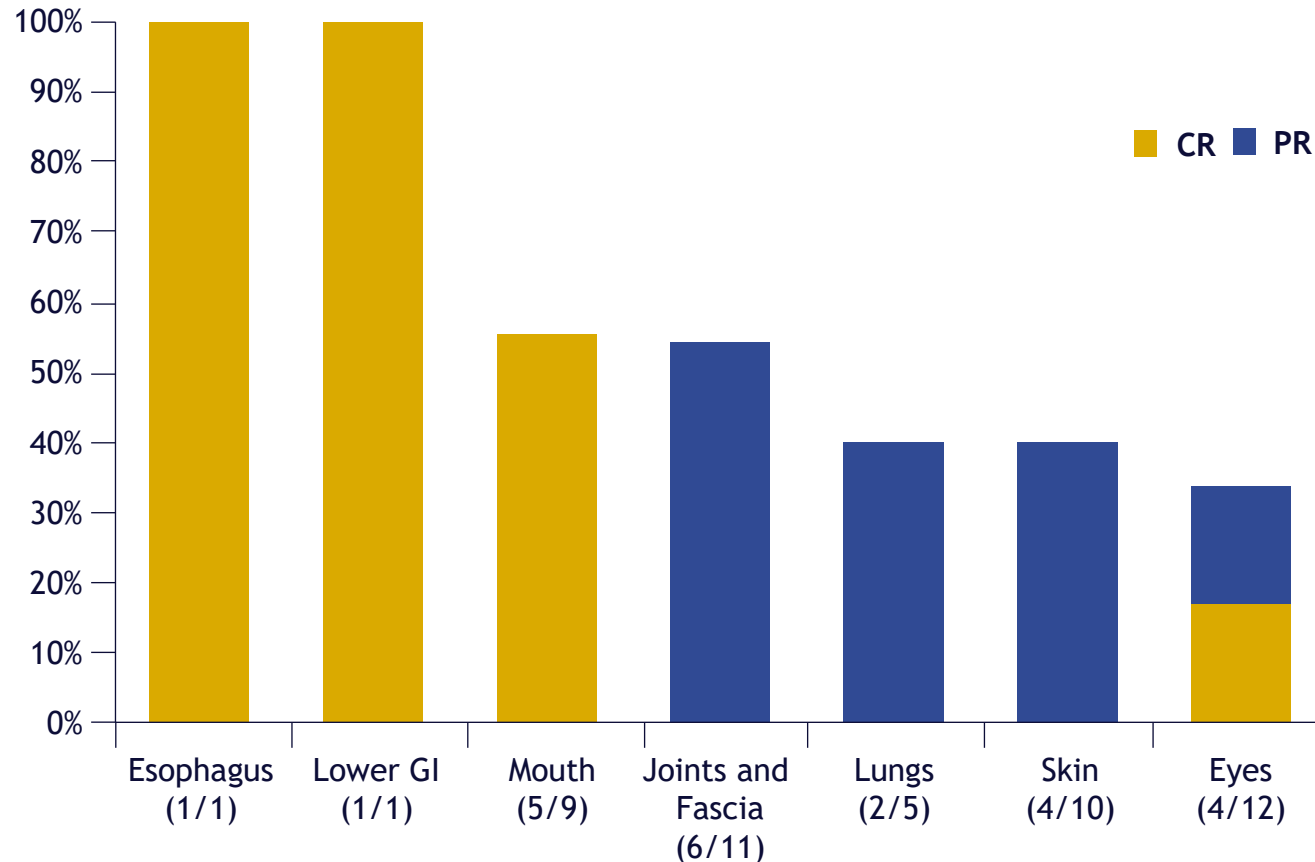
PHASE 1 ONLY	<1mg q2wk <sup>1,2</sup>	1mg q2wk	3mg q2wk	3mg q4wk	Total N=14 <sup>3</sup>
CR+PR, n (%)	2 (100)	2 (67)	2 (33)	2 (67)	8 (57)
Stable disease	0	1 (33)	3 (50)	1 (33)	5 (36)
Time to response Median (range) months	1.5 (1, 2)	6.9 (3, 11)	2.1 (1, 3)	1.4 (1, 2)	1.9 (1, 11)

- ◇ CR/PR
- > Ongoing at Data Cutoff
- Other
- ▲ Investigator Decision
- Non-Compliance
- Adverse Event
- ▼ Subject Deceased
- Progressive Disease

<sup>1</sup> Includes one patient from 0.15mg/kg q2wk dosing cohort. <sup>2</sup> Includes one patient from 0.5mg/kg q2wk dosing cohort<sup>3</sup> One patient did not have a post-baseline response assessment at time of data cut-off. Abbreviation: CR=complete response, PR=partial response, q=every. Data cut-off 30Oct2020.

# Axatilimab: Response seen across cGVHD organ system involvement

## Organ-specific Response Rate



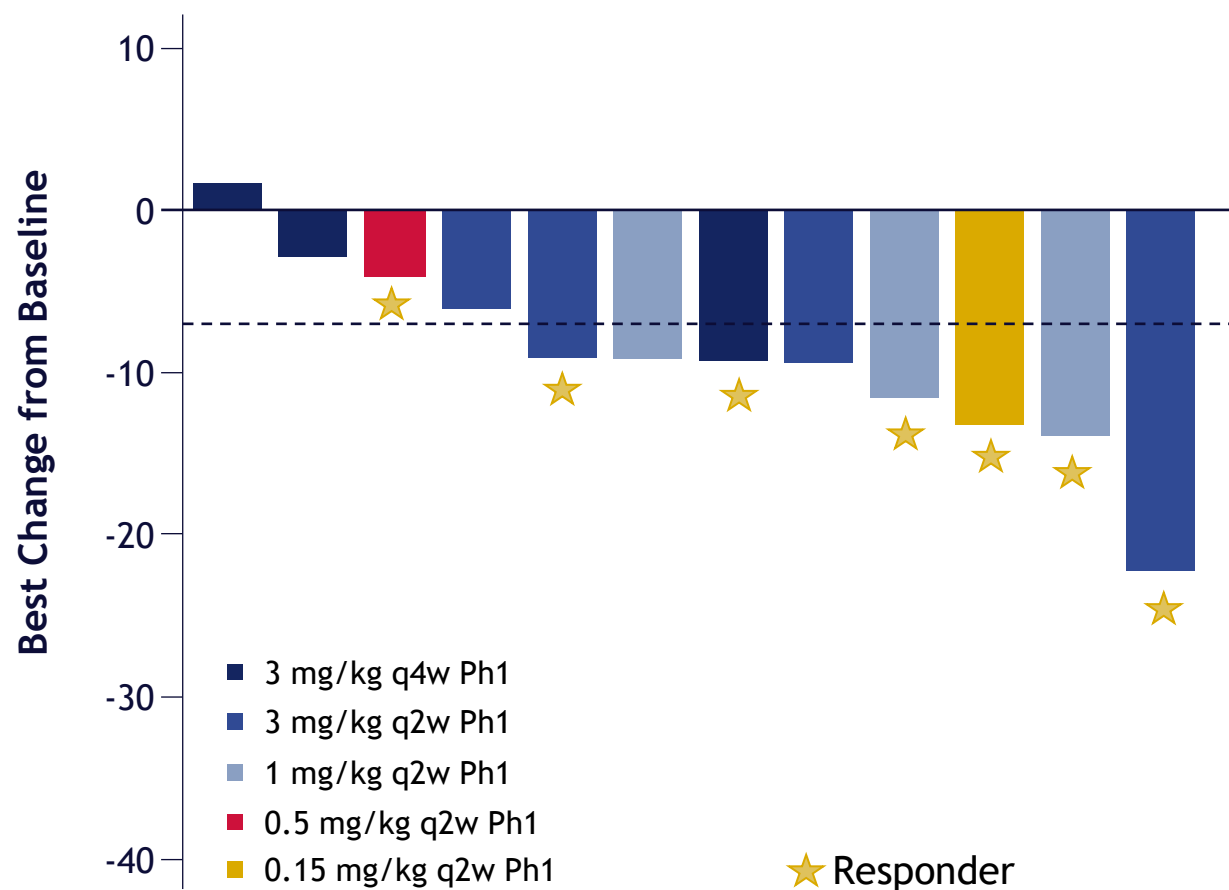
- Responses observed at all dose levels
- Deep and sustained responses observed across several organ systems
- Responses seen after prior Ibrutinib = 6; Ruxolitinib = 5; KD-025 = 3

Abbreviation: CR=complete response, PR=partial response  
Data cut-off 30Oct2020.

# Axatilimab: Improved Lee symptom scores in a majority of patients



Waterfall Plot for Normalized Lee Symptom Scale



Data cut-off 30Oct2020.

- Best change in Lee Symptom score across five dosing cohorts noted improvement in a majority of patients
- Median reduction (points): -9.13 (range -22.28, 1.67)
- 8 (67%) of 12 patients evaluable achieved a 7-point reduction from baseline
- One patient (3mg/kg q4wk cohort) experienced an increase in Lee symptom score and stopped treatment after 3 cycles

# Axatilimab: Summary of treatment-emergent adverse events (TEAEs)



Characteristic	<1mg/kg q2wk n=2 <sup>1,2</sup>	1mg/kg q2wk n=3	3 mg/kg q2wk n=6	3 mg/kg q4wk n=4
<b>TEAE Related</b>	2 (100)	3 (100)	6 (100)	4 (100)
<b>TEAE Gr 3/4</b>	2 (100)	2 (67)	4 (67)	2 (50)
Gr 3/4 Related	1 (50) <sup>1</sup>	1 (33)	3 (50)	2 (50)
<b>Discontinued Tx</b>	<b>2 (100)</b>	<b>2 (67)</b>	<b>3 (50)</b>	<b>1 (25)</b>
Progression	1 (100) <sup>1</sup>	1 (33)	0	0
Adverse Event	0	0	1 (17)	0
MD decision	1 (100) <sup>2</sup>	0	1 (17)	1 (25)
Deceased	0	1 (33)	0	0
Other	0	0	1 (17)	0

- **Grade 3/4 events occurring  $\geq 2$  patients include:** CK increased (n=3), AST increased (n=2), Pneumonia (n=2)
- **One Grade 5 event occurred unrelated to axatilimab:** Fall (n=1)

<sup>1</sup> Includes one patient from 0.15mg/kg q2wk dosing cohort. <sup>2</sup> Includes one patient from 0.5mg/kg q2wk dosing cohort. Abbreviations: Gr=grade, tx=treatment, q=every  
Data cut-off 30Oct2020.

# Axatilimab: TEAEs occurring in at least 5 patients, all grades regardless of causality



Characteristic	<1mg/kg q2wk n=2 <sup>1,2</sup>	1mg/kg q2wk n=3	3 mg/kg q2wk n=6	3 mg/kg q4wk n=4	Total N=15
<b>TEAE term, n (%)</b>					
AST increased	1 (50) <sup>1</sup>	1 (33)	4 (67)	3 (75)	<b>9 (60)</b>
CPK increased	0	1 (33)	5 (83)	3 (75)	<b>9 (60)</b>
LDH increased	1 (50) <sup>2</sup>	2 (67)	4 (67)	2 (50)	<b>9 (60)</b>
Amylase increased	1 (50) <sup>1</sup>	1 (33)	4 (67)	0	<b>6 (40)</b>
Fatigue	1 (50) <sup>2</sup>	0	3 (50)	2 (50)	<b>6 (40)</b>
Lipase increased	0	1 (33)	3 (50)	2 (50)	<b>6 (40)</b>
ALT increased	1 (50) <sup>1</sup>	0	3 (50)	1 (25)	<b>5 (33)</b>
Creatinine increased	0	1 (33)	2 (33)	2 (50)	<b>5 (33)</b>
Nausea	2 (100)	0	3 (50)	0	<b>5 (33)</b>
Pyrexia	0	1 (33)	4 (67)	0	<b>5 (33)</b>

<sup>1</sup> Includes one patient from 0.15mg/kg q2wk dosing cohort. <sup>2</sup> Includes one patient from 0.5mg/kg q2wk dosing cohort. Abbreviations: q=every  
Data cut-off 30Oct2020.

# Axatilimab: All infection events, all grades regardless of causality

Characteristic	<1mg/kg q2wk n=2 <sup>1,2</sup>	1mg/kg q2wk n=3	3 mg/kg q2wk n=6	3 mg/kg q4wk n=4	Total N=15
<b>TEAE term, n (%)</b>					
Pneumonia	1 (50) <sup>2</sup>	1 (33)	0	1 (25)	<b>3 (20)</b>
Conjunctivitis	1 (50) <sup>1</sup>	0	0	0	<b>1 (7)</b>
Gastroenteritis norovirus	0	0	1 (17)	0	<b>1 (7)</b>
Influenza	0	1 (33)	0	0	<b>1 (7)</b>
Lung infection	0	1 (33)	0	0	<b>1 (7)</b>
Pseudomonas infection <sup>3</sup>	0	0	0	1 (25)	<b>1 (7)</b>
URI	0	1 (33)	0	0	<b>1 (7)</b>

- 9 events of infection were reported in six patients with two patients experiencing multiple events (pneumonia, influenza and URI, n=1; pseudomonas and pneumonia, n=1)
- No CMV viral reactivations were reported

<sup>1</sup> Includes one patient from 0.15mg/kg q2wk dosing cohort. <sup>2</sup> Includes one patient from 0.5mg/kg q2wk dosing cohort<sup>3</sup> Pseudomonas infection to foot (dermal ulcers)

Abbreviations: URI=Upper-respiratory infection, q=every

Data cut-off 30Oct2020.

# Axatilimab shows significant improvement in sclerodermatous cGVHD

- Patient experienced chronic ulcers unresponsive to prior therapies
- Treatment with 1mg/kg q2wk axatilimab led to significant improvement in ulceration



5/15/19

➤ ➤ ➤  
*1mg/kg Q2W axatilimab*  
Initiated 6/12/19  
➤ ➤ ➤



9/18/19

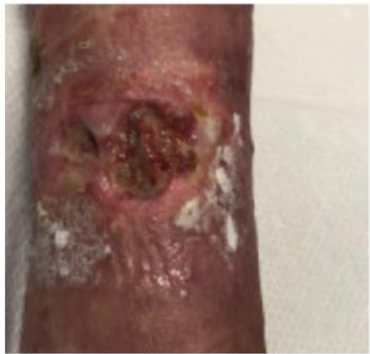
# Additional example of observed improvement in sclerodermatous disease with ulcers



12/12/19



5.4 cm x 3 cm x 0.1 cm



2.5 cm x 3 cm x 0.1 cm

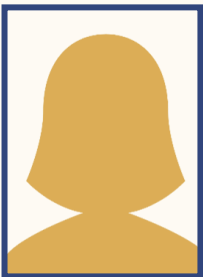


06/25/20



- Lower leg ulcers are particularly challenging to treat
- 3mg/kg q2wk axatilimab led to significant improvement in lower leg ulceration

# Case studies illustrate early results from this Phase 1 trial



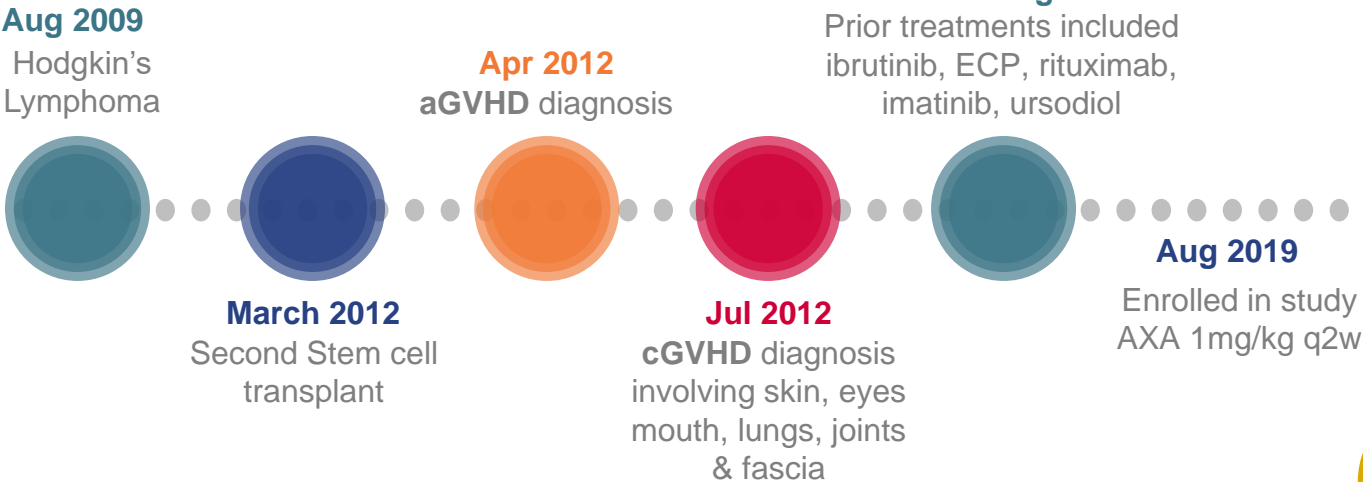
30 Years Old,  
Severe cGVHD

“

*“I have not experienced any side effects since beginning the therapy; significantly fewer episodes of shortness of breath; first time I've noticed improvement from a treatment in years”*

– Patient

”



Patient struggled with weight loss, loss of appetite & difficulty swallowing

**Baseline weight: 91.3lbs INCREASED to 101.9lbs**

Global lung improvement with **PARTIAL RESPONSE**

**FEV1:**  
44% improved  
to 57%

**FVC:**  
48% improved  
to 55%

**DLCO:**  
13% improved  
to 53%

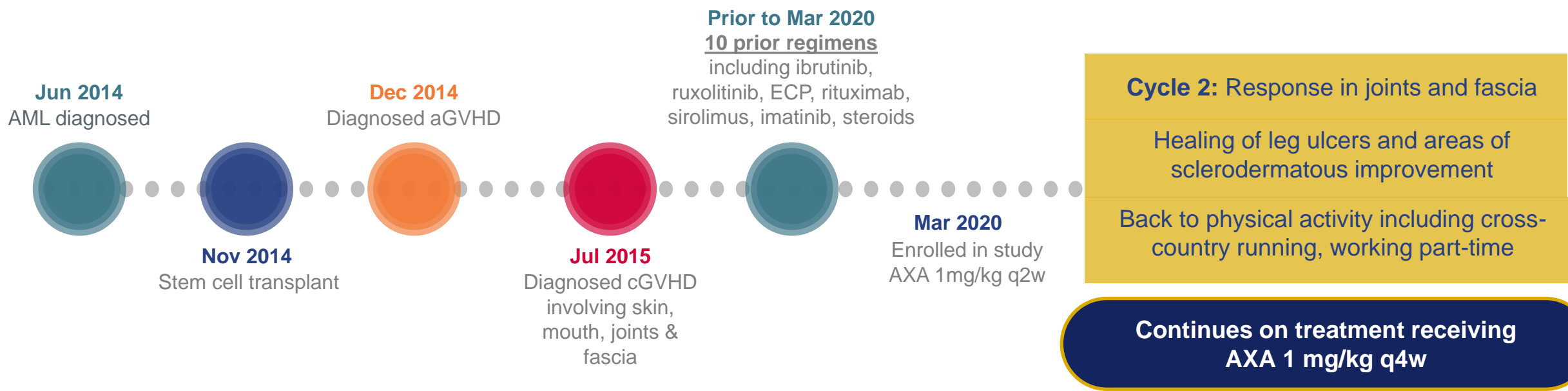
AXA, axatilimab; DLCO, diffusing capacity of carbon monoxide; ECP, extracorporeal photopheresis; FEV1, forced expiratory volume in one second; FVC, forced vital capacity.

# Case studies illustrate axatilimab benefit in heavily pre-treated GVHD



16 Years Old,  
Severe cGVHD

*Significant burden of disease despite 10 prior therapies*



AML, acute myeloid leukemia; AXA, axatilimab; ECP, extracorporeal photopheresis.

# Conclusions

- **Axatilimab demonstrates good tolerability with clinical activity demonstrated by a 57% (n=8) response rate in a heavily pre-treated patient population**
- **Clinical benefit observed across multiple organ manifestations of cGVHD**
- **A majority of patients experienced a significant benefit in their Lee Symptom Score with median change of -9.13 points.**
- **Low rate of infections reported with no viral reactivations**
- **Ongoing development of axatilimab will include a registration enabling randomized Phase 2 study (AGAVE-201) in patients with R/R cGVHD**



# New Insights into the Pathophysiology and Treatment of Chronic GVHD

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**Prof Geoffrey Hill**

José Carreras/E. Donnell Thomas Endowed Chair for Cancer Research  
*Fred Hutchinson Cancer Research Center*  
*Seattle WA, USA*



# Conflicts of interest

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Consulting  
Regeneron

Research funding  
Roche  
Syndax  
Compass Therapeutics  
Applied Molecular Transport

# Chronic GVHD

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Occurs late post-transplant, follows acute GVHD

Primary target organs are skin, lung, mouth, salivary/lacrimal glands

Cardinal feature is fibrosis

Up to 50% patients following allogeneic SCT



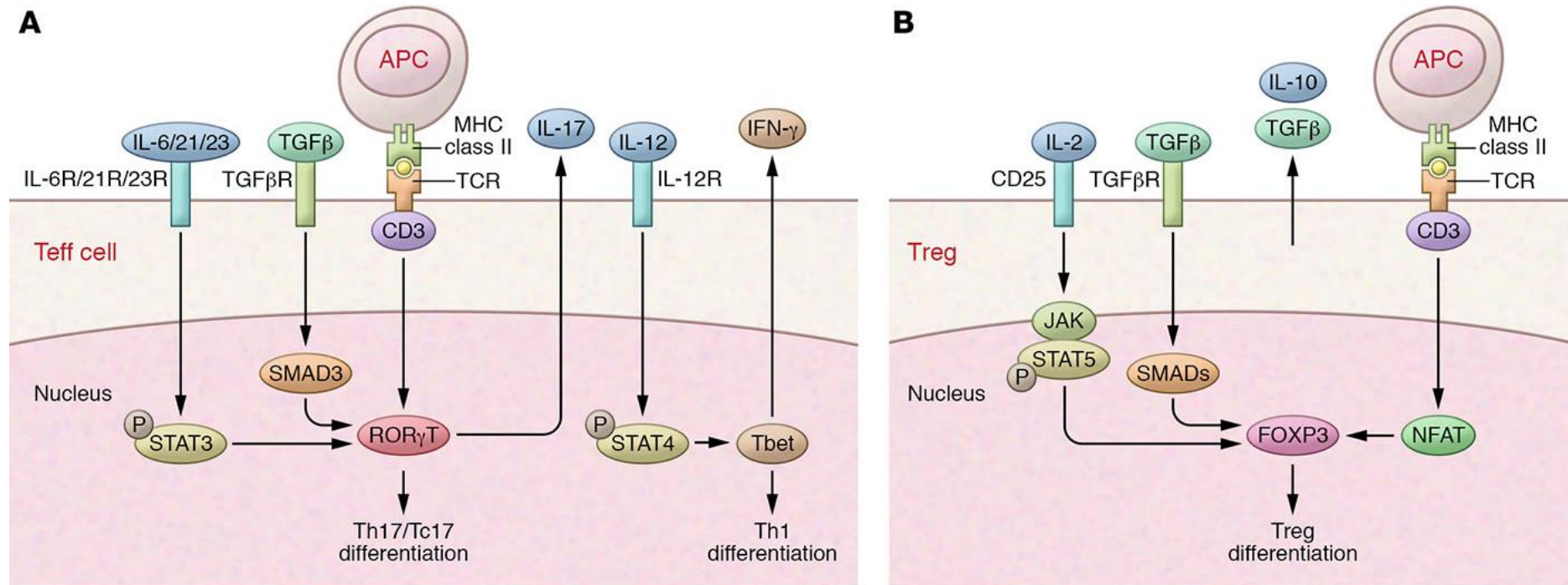
**Effective therapy historically limited**

# Pathways of cGVHD

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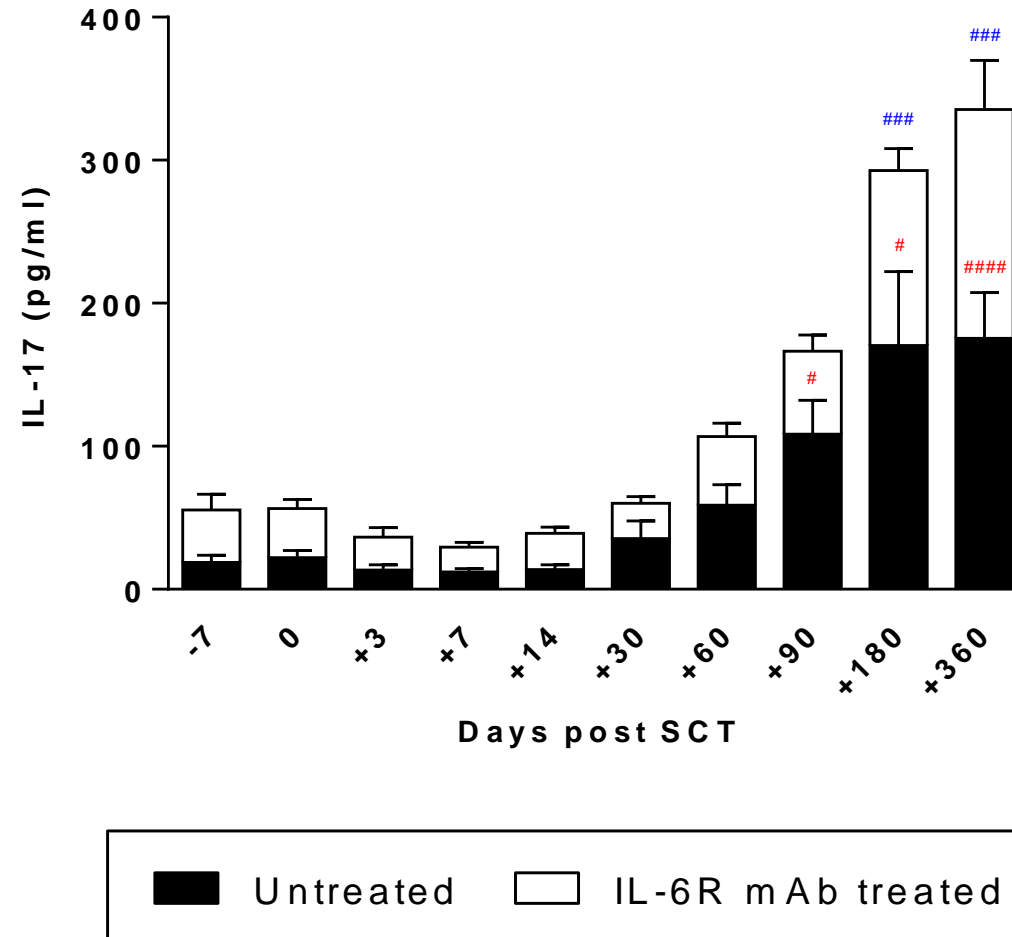
- Aberrant T cell differentiation (Th17, Tfh)
- Aberrant germinal centre B cell expansion and antibody secretion
- Regulatory T cell defects
- **Excess IL-17A**
- Alternatively activated macrophage differentiation

# T cell differentiation



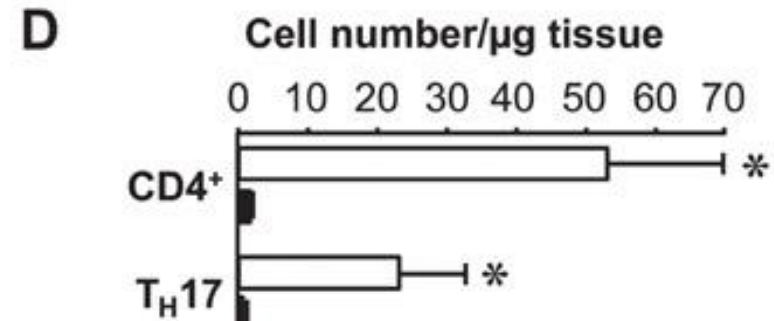
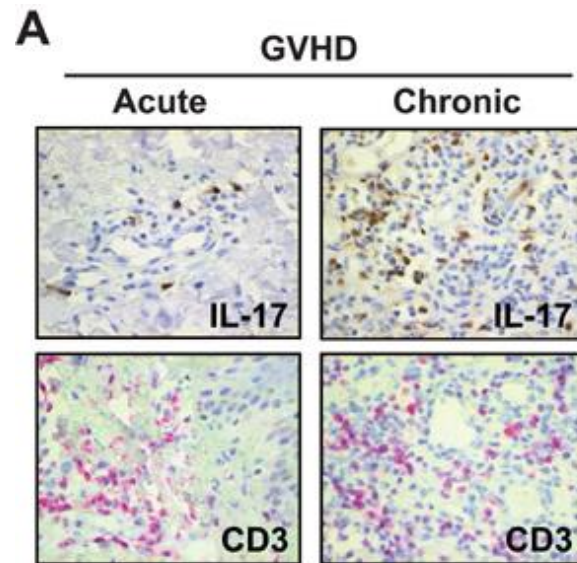
## 4. Th17/Th22 differentiation

Chronic GVHD is associated with systemic IL-17 dysregulation



# High amounts of Th17 cells are found in sites of chronic diseases

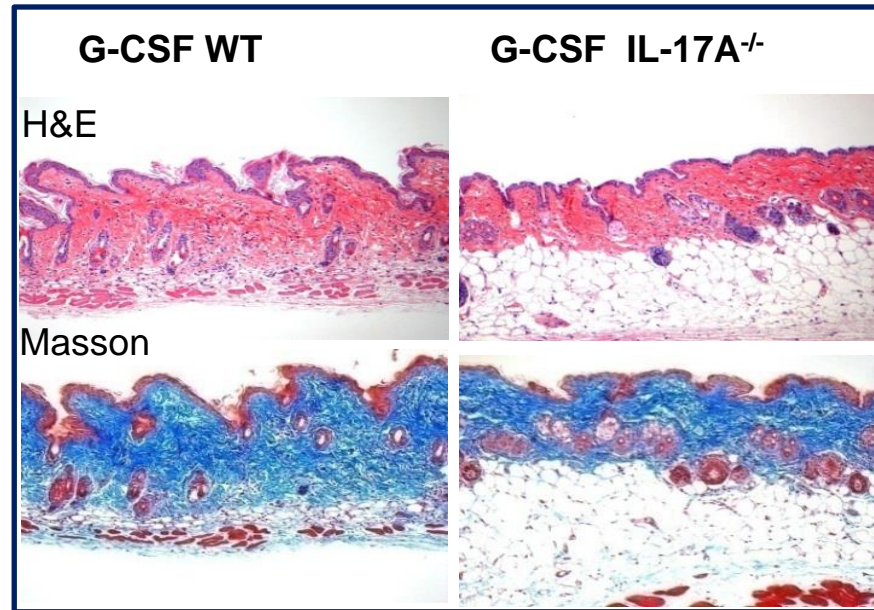
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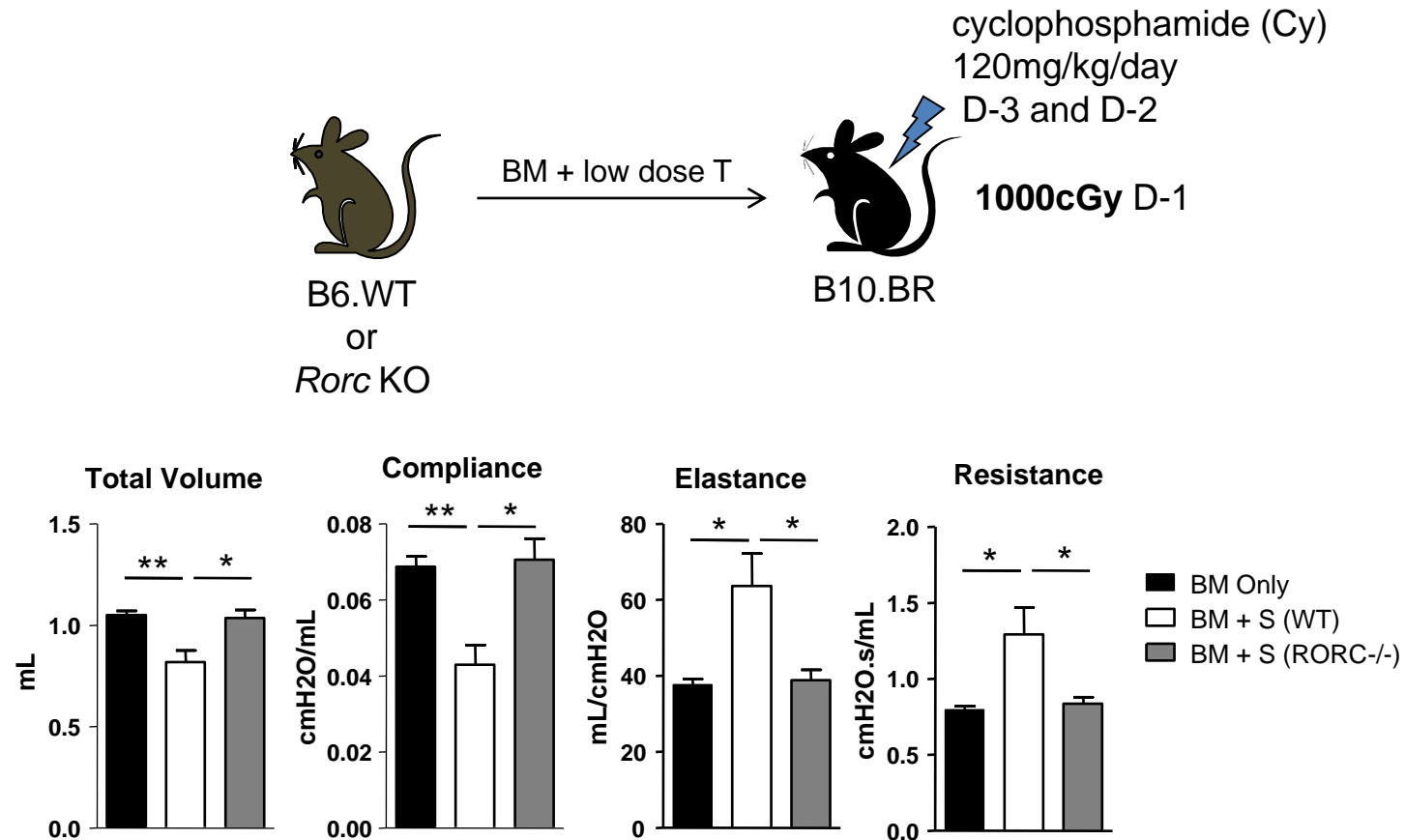
# Scleroderma is IL-17 dependant

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Day 70



# IL-17 is a mediator Bronchiolitis Obliterans



# IL-17 and chronic GVHD

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**What's the cellular mechanism  
of fibrosis?**



Kelli MacDonald



Kylie Alexander

# Pathways of cGVHD

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- **Aberrant T cell differentiation (Th17, Tfh)**
- **Aberrant germinal centre B cell expansion and antibody secretion**
- **Regulatory T cell defects**
- **Excess IL-17A**
- **Alternatively activated macrophage differentiation**

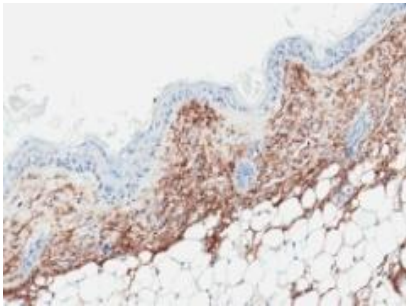
# Scleroderma is associated with IL-17-dependent macrophage infiltration

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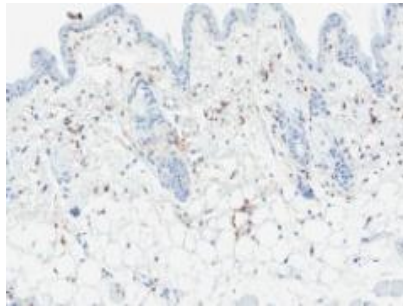
**F4/80<sup>+</sup>**

Day 28

WT

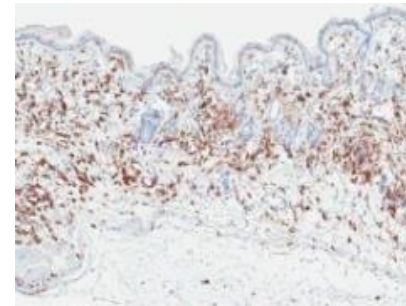


IL-17A<sup>-/-</sup>

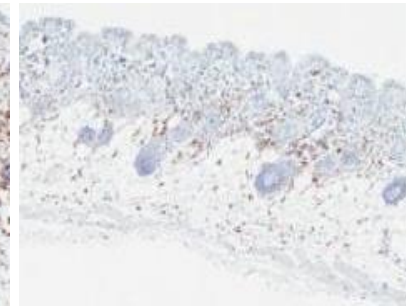


Day 70

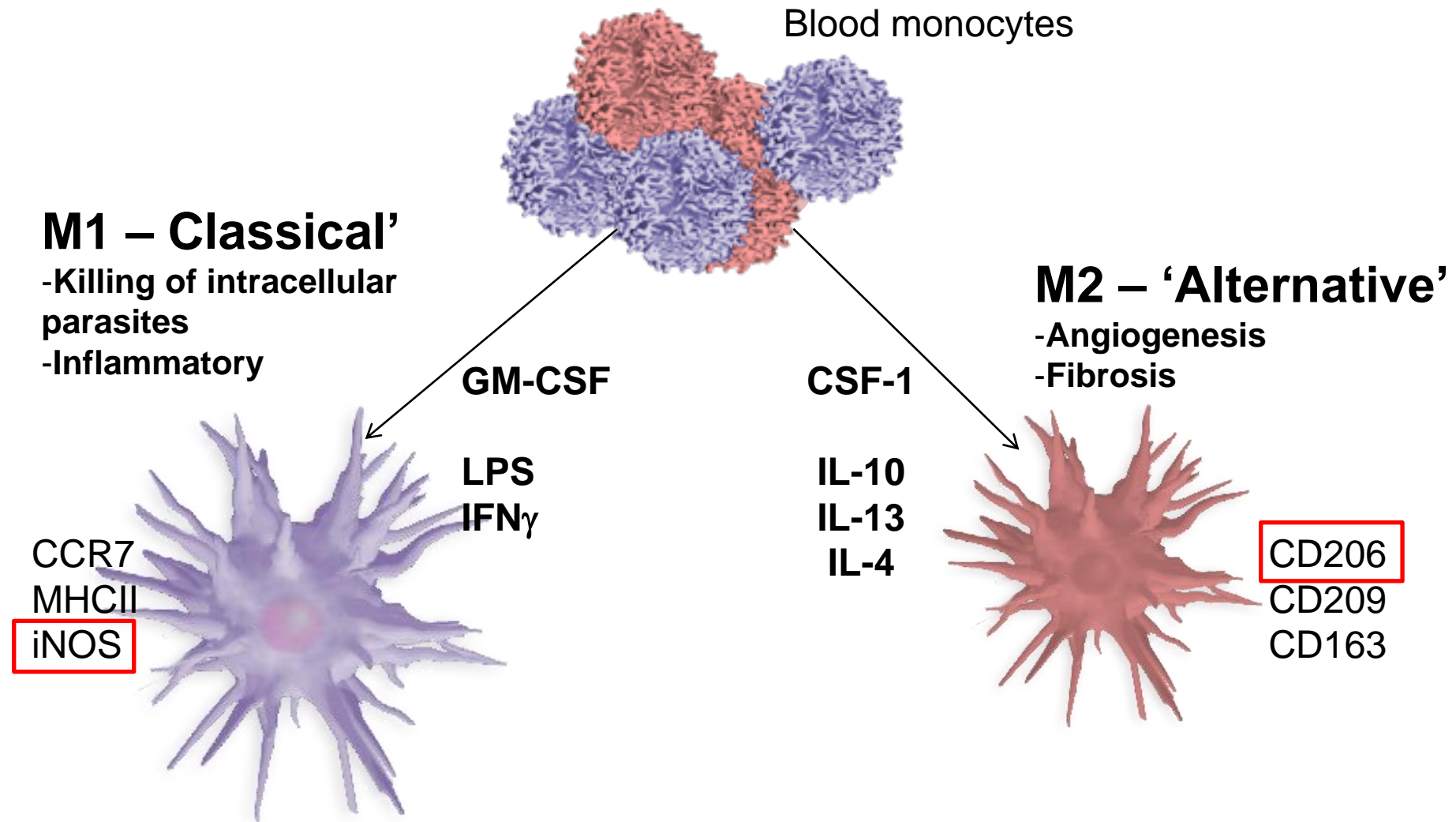
WT



IL-17A<sup>-/-</sup>



# Phenotype of F4/80<sup>+</sup> macrophages

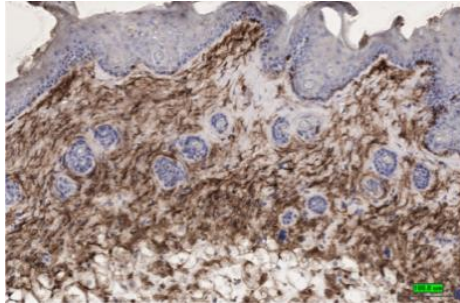


# F4/80<sup>+</sup> macrophages are donor 'M2'

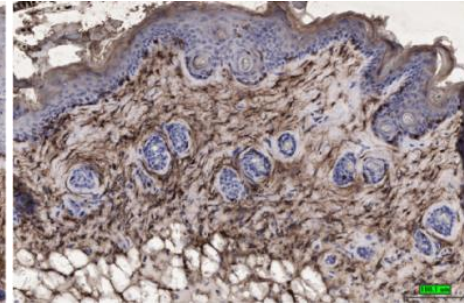
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**D21**

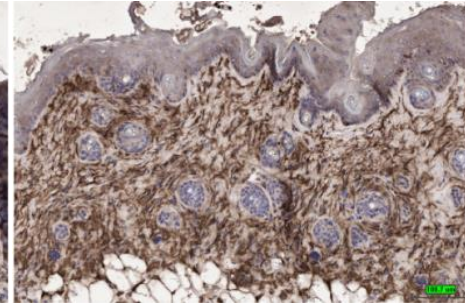
F4/80



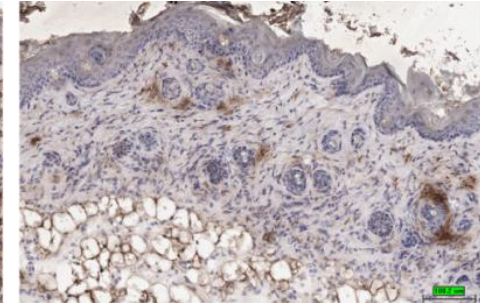
CD45.1  
(donor)



CD206  
(M2)



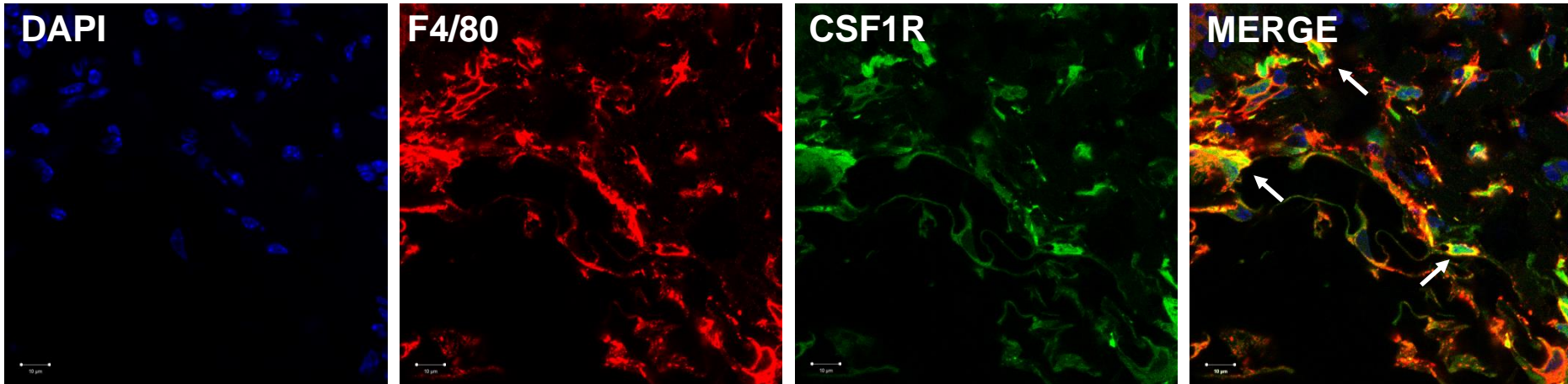
iNOS  
(M1)



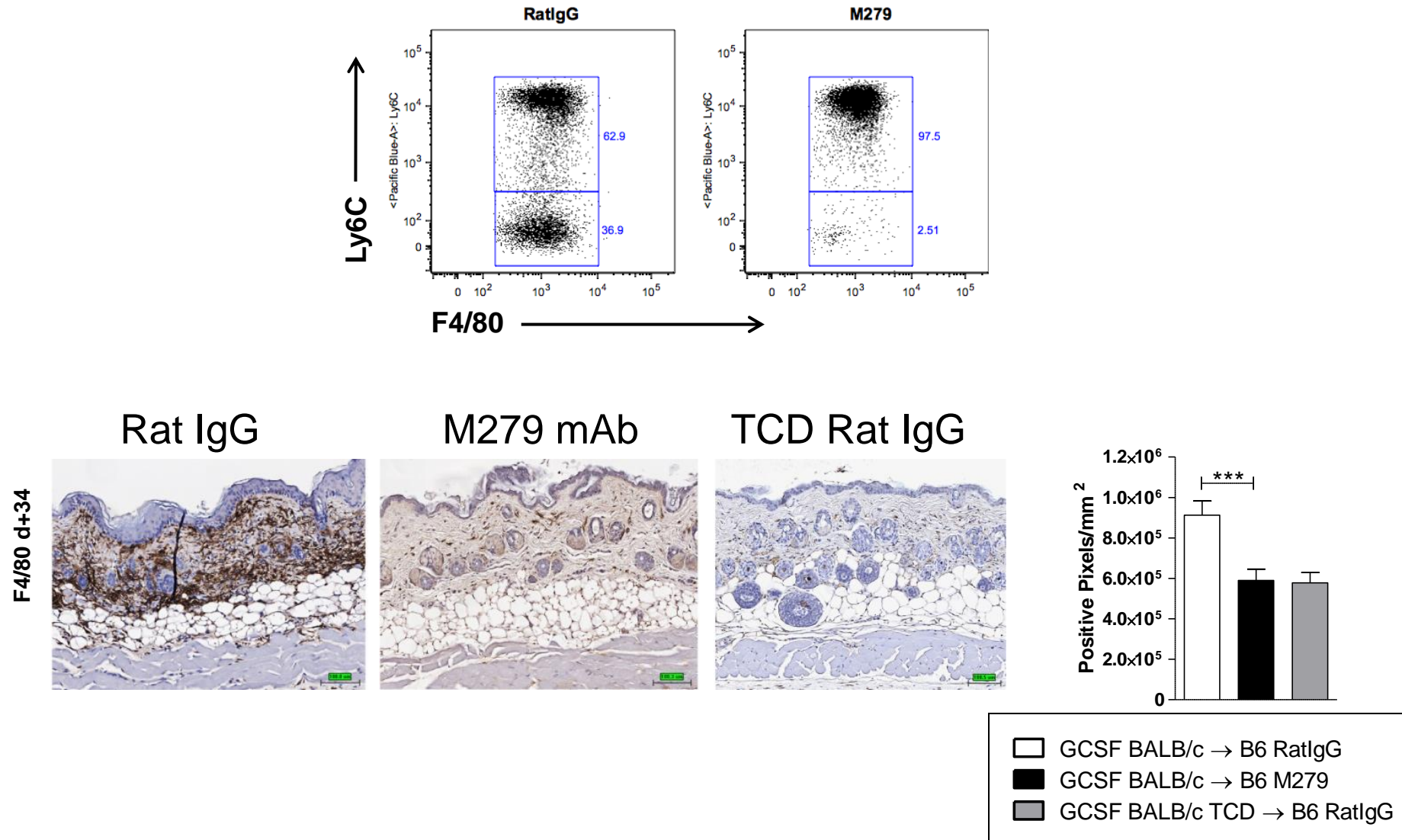
# F4/80<sup>+</sup> macrophages express C-CSF-1R

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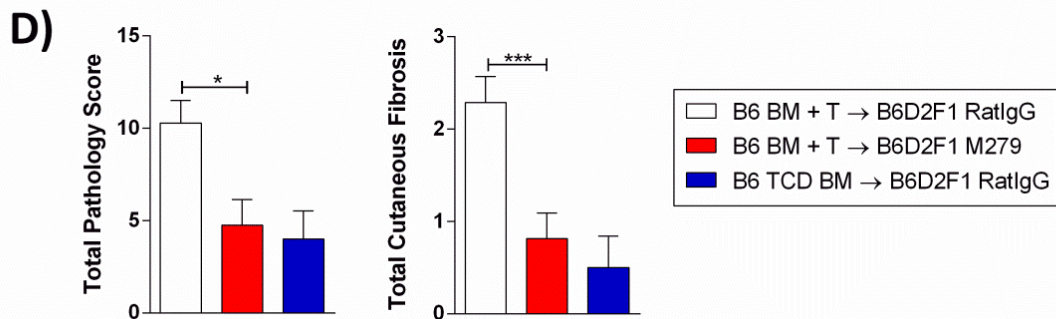
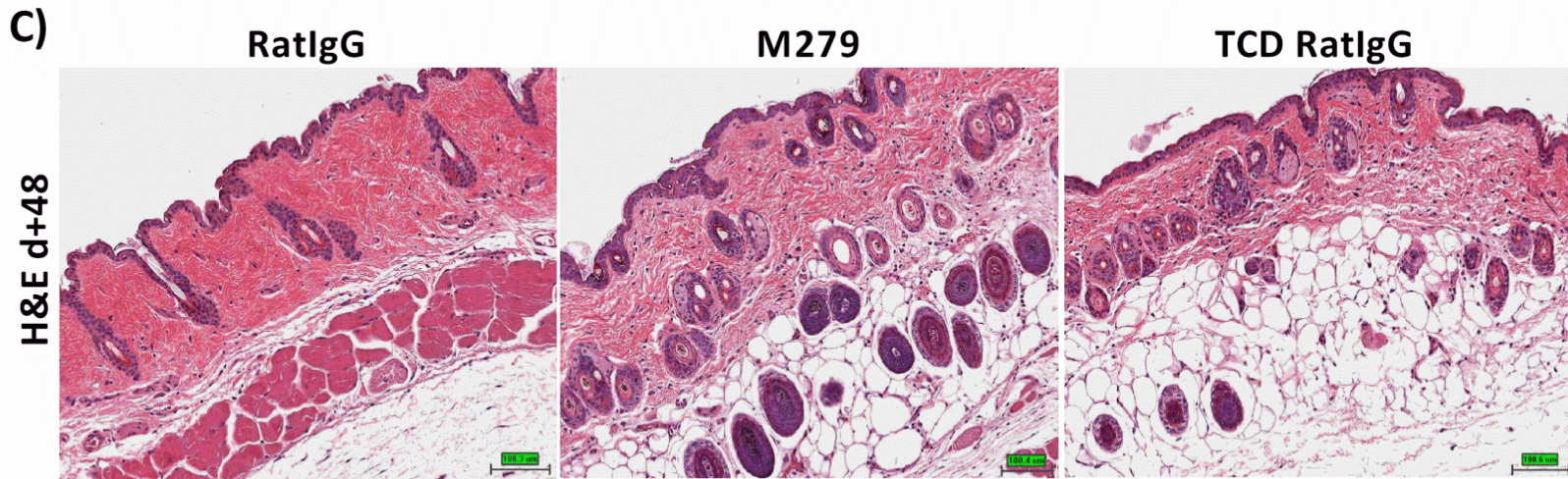
B6.MacGreen BM + T → B6D2F1



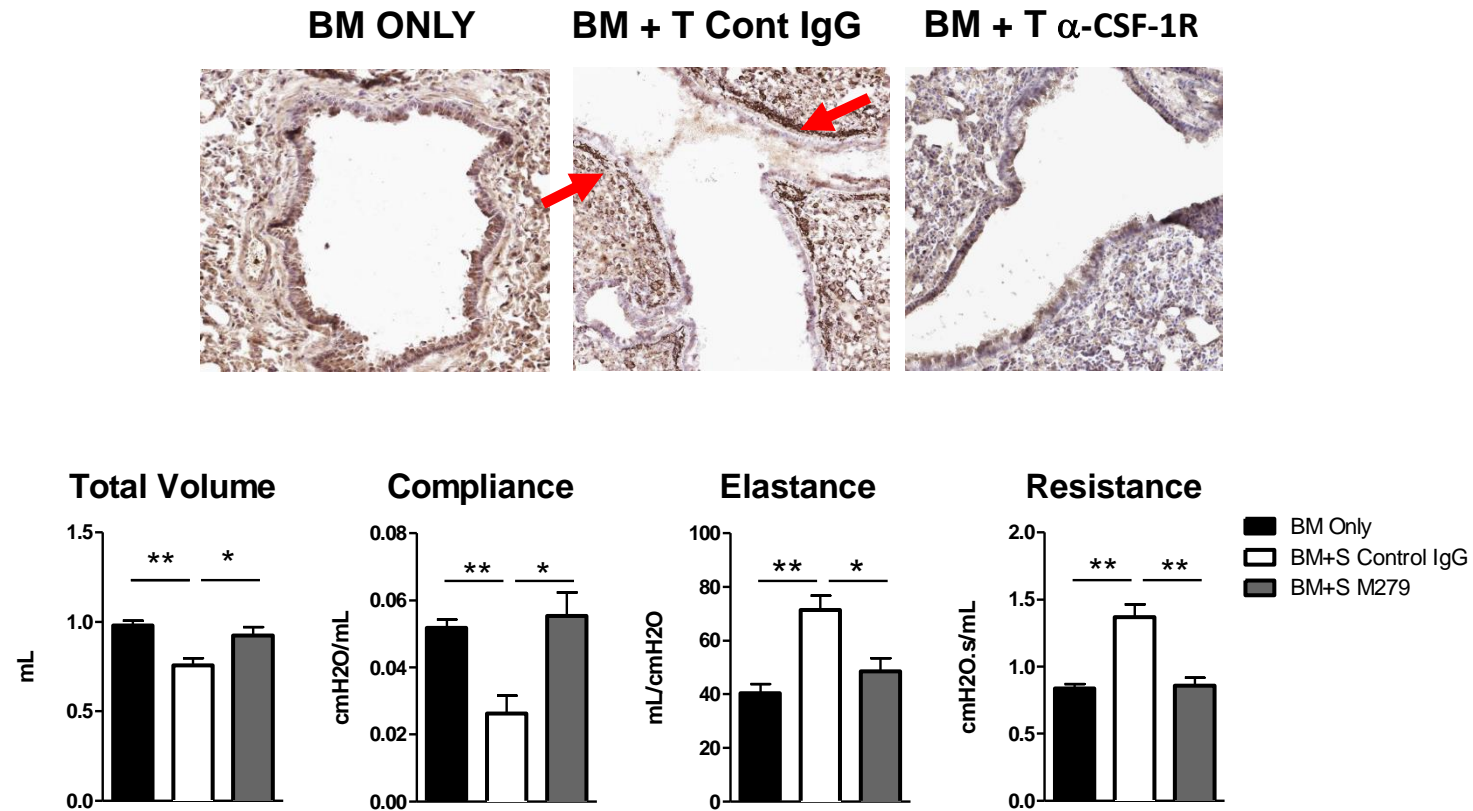
# Anti-CSF-1R (M279) blockade post transplant depletes resident tissue precursor macrophages



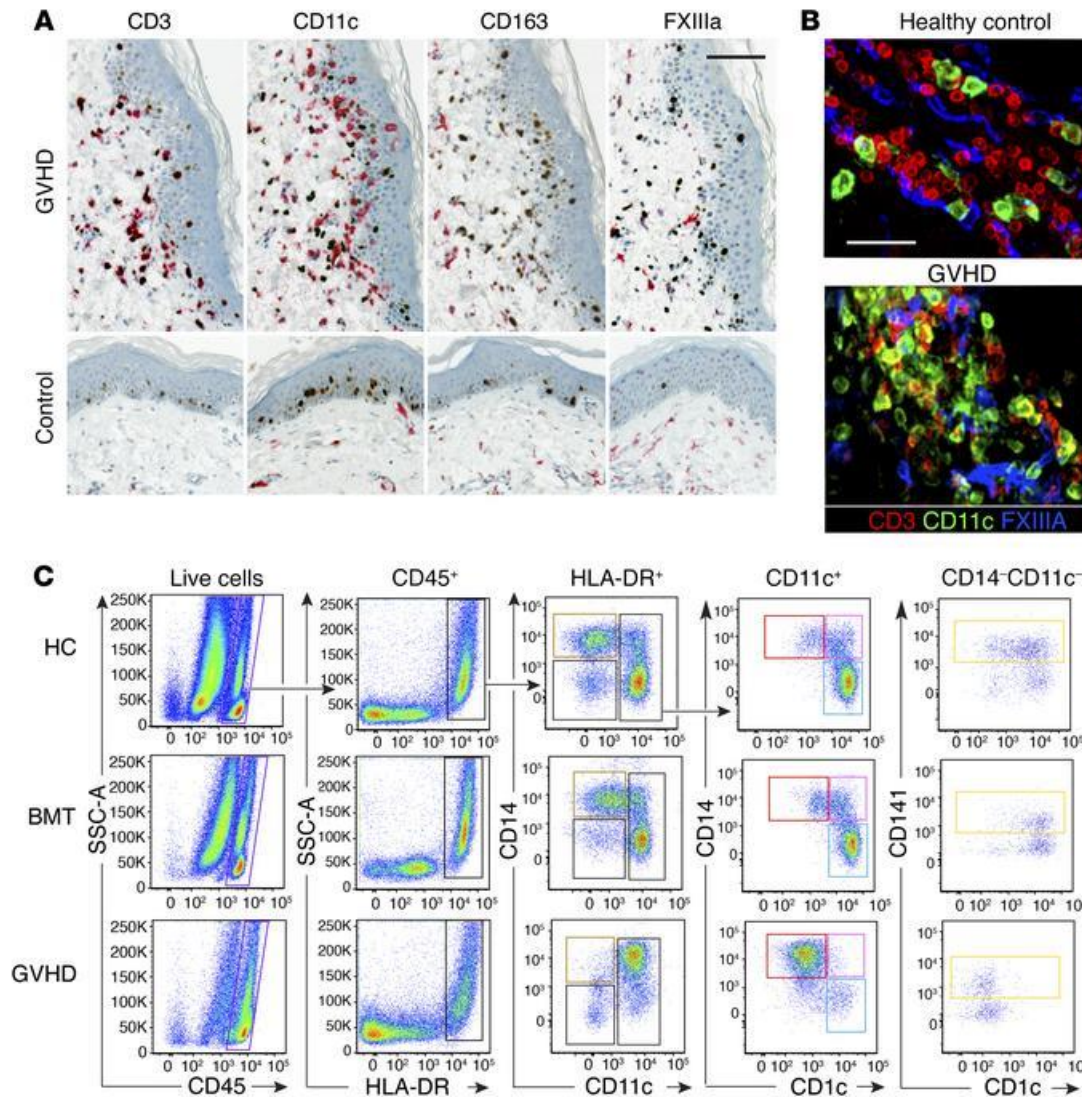
# CSF-1R blockade prevents scleroderma

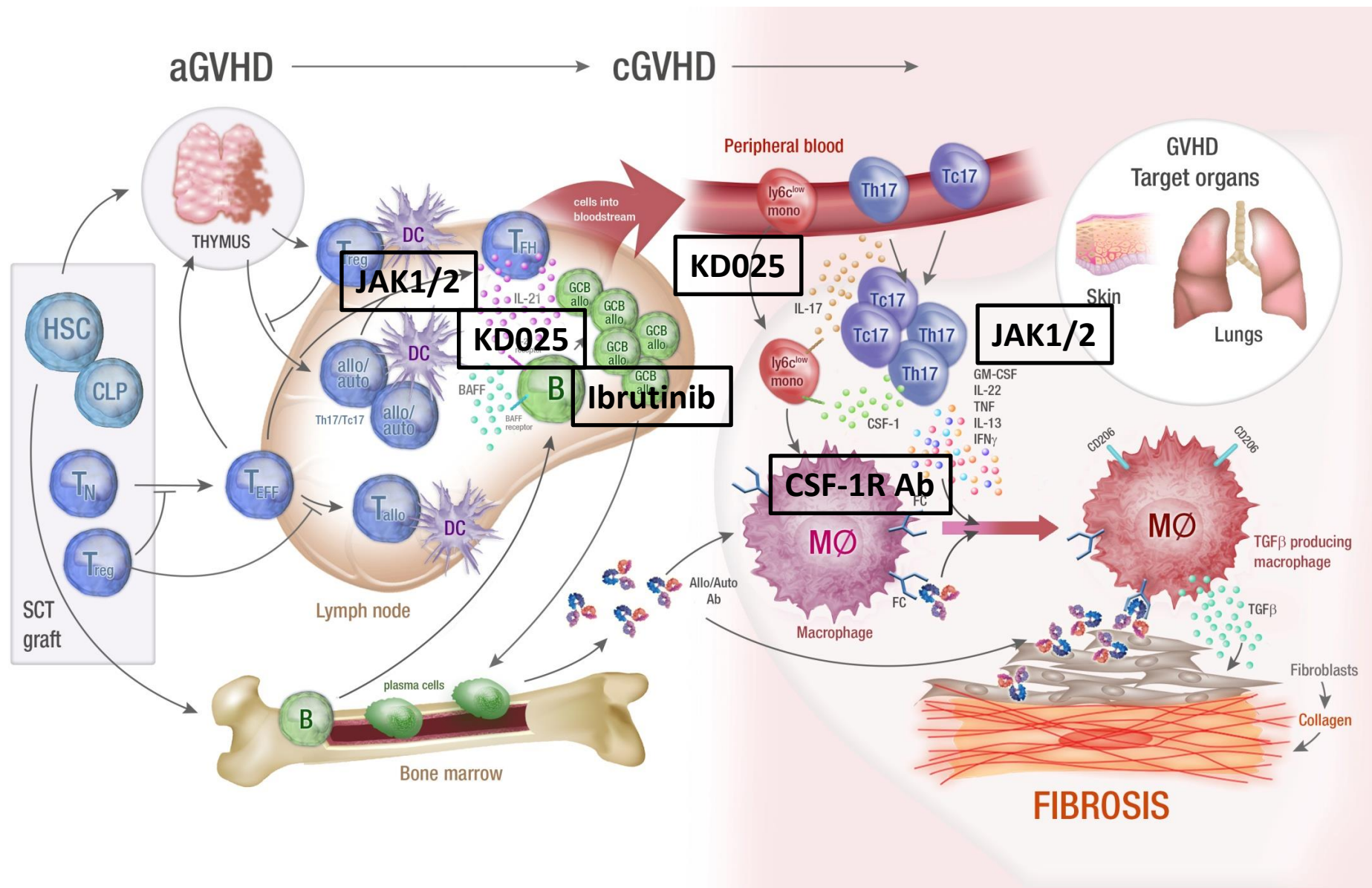


# Macrophage depletion with anti-CSF1R mAb abrogates Bronchiolitis Obliterans



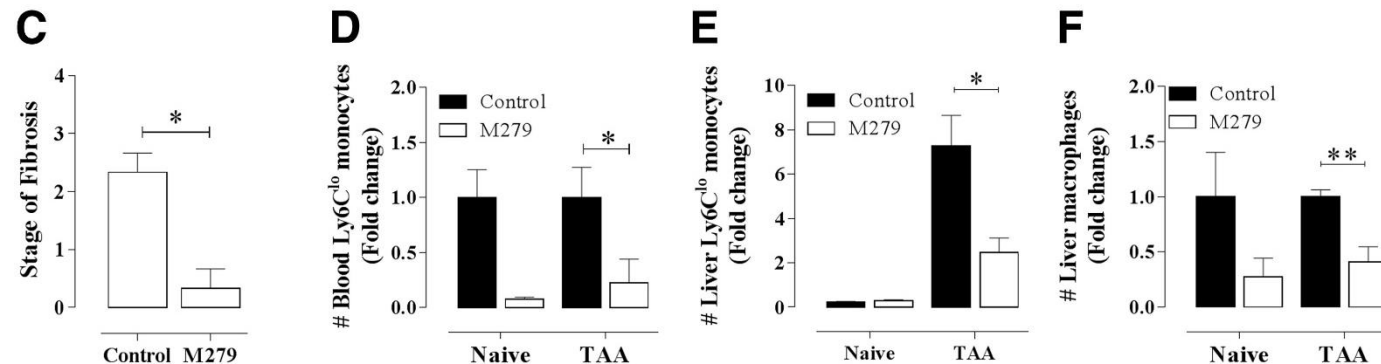
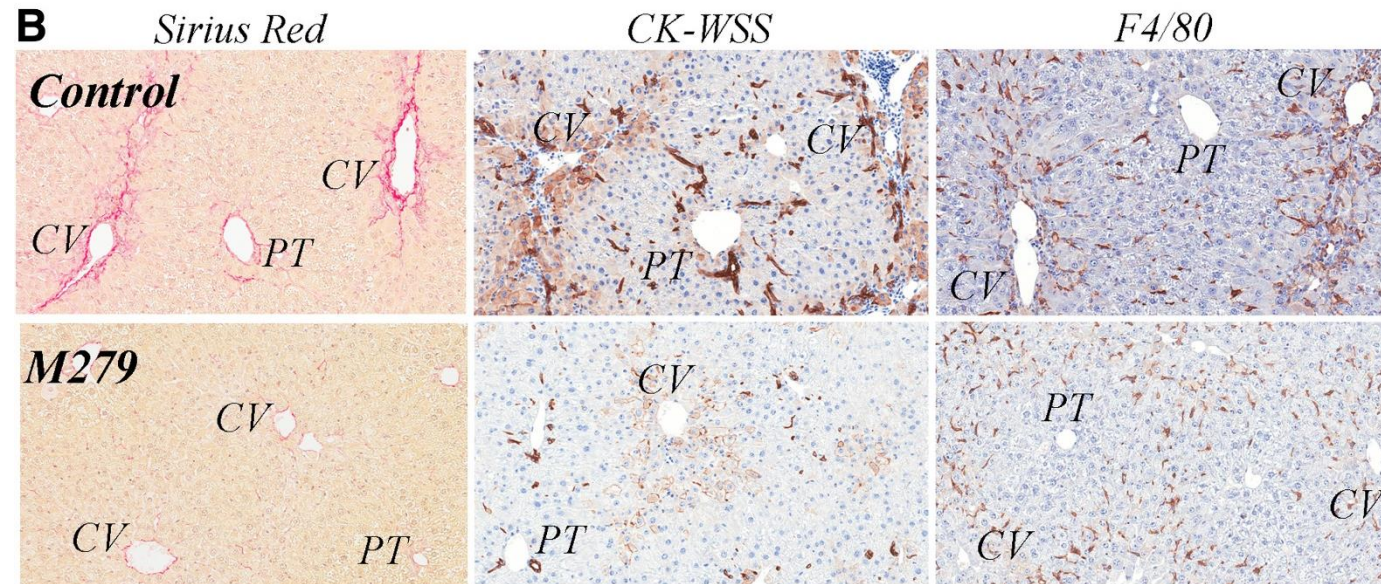
# Monocyte-derived macrophages dominate human GVHD skin





# What about other disease characterized by fibrosis?

Potential for activity in systemic sclerosis, pulmonary fibrosis, hepatic fibrosis



# Conclusions

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- **CSF-1R-dependent macrophages appear to represent a common terminal pathway of tissue fibrosis in cGVHD**
- **CSF-1R inhibition offers theoretical advantages over agents acting more proximally (e.g. on T cells or B cells)**
- **CSF-1R inhibition is active in both scleroderma and BO in preclinical cGVHD models**
- **Moving CSF-1R inhibition earlier into the treatment phase of cGVHD, before dense fibrosis has established is an attractive next step**
- **Fibrosis in other diseases and target organs also appear to involve the CSF-1R axis**



## Axatilimab cGVHD development plans and closing remarks

# **AGAVE-201** global chronic GVHD pivotal trial expected to initiate by year end

## Inclusion criteria:

- 6 years and older
- Recurrent or refractory active cGVHD after at least 2 lines of systemic therapy



***Primary Endpoint: Objective Response Rate (ORR) by 2014 NIH GVHD Criteria***

***Key Secondaries: Duration of response, improvement in modified Lee Symptom Scale***

Questions?

Syndax 