



Chemomab
THERAPEUTICS

Pioneering Innovative Treatments for Fibro-inflammatory Diseases

NON-CONFIDENTIAL CORPORATE OVERVIEW
NASDAQ: CMMB

Forward Looking Statements



This presentation contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act. These forward-looking statements include, among other things, statements regarding the clinical development pathway for CM-101; the future operations of Chemomab and its ability to successfully initiate and complete clinical trials and achieve regulatory milestones; the nature, strategy and focus of Chemomab; the development and commercial potential and potential benefits of any product candidates of Chemomab; and that the product candidates have the potential to address high unmet needs of patients with serious fibrosis-related diseases and conditions. Any statements contained in this communication that are not statements of historical fact may be deemed to be forward-looking statements. These forward-looking statements are based upon Chemomab's current expectations. Forward-looking statements involve risks and uncertainties.

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Chemomab

THERAPEUTICS

Clinical stage
biotech company
discovering and
developing **innovative
therapeutics** for
fibro-inflammatory
diseases with high
unmet need



Our Focus

FIBROSIS

INFLAMMATION



Fibro-Inflammatory Diseases
at the confluence of
Fibrosis & Inflammation

Chemomab Highlights



A PIPELINE IN A PRODUCT

The Drug

CM-101

First-in-class monoclonal antibody with disease modifying potential

The Target

CCL24

Novel, broadly applicable, dual-acting target

The Science

De-risked--extensive & rigorous preclinical package & early clinical validation of:

- CCL24 as driver of fibrosis-inflammation
- CM-101's ability to attenuate fibrotic-inflammatory pathways to impact disease

Disease Focus

Fibrotic-inflammatory with high unmet need & strong commercial potential

- Primary Sclerosing Cholangitis
- Systemic Sclerosis
- Other fibro-inflammatory diseases

Est.
Commercial
Potential
\$2.5B+

SOLID FOUNDATION

High Value Clinical Programs

- Two Phase 2 trials underway; 3rd starting 4Q 2022/1Q 2023
- Liver biomarker Phase 2 data readout expected 4Q 2022

Robust IP Portfolio

- Global patent exclusivity thru 2038 with possible extensions
- COM in major markets + use patents; others pending

Experienced Management

- Value-creation focused leadership with record of success

Top Tier Investors



Cormorant Asset
Management

THIEL

Solid Balance Sheet

- \$46.5M cash & equivalents (9/30/22)
- Estimated runway through end-2023

Experienced Management with Extensive Biopharma Experience



Dale Pfof, PhD

*Chairman &
Chief Executive Officer*



Adi Mor, PhD

*Co-founder &
Chief Scientific Officer*



Don Marvin

*Chief Financial Officer,
EVP & COO*



Matthew Frankel, MD

*Chief Medical Officer &
Vice President, Drug
Development*



Jack Lawler

*Vice President,
Global Clinical
Development Operations*



Ilan Vaknin, PhD

*Vice President,
Research & Development*



Chris Crater, MD

*Vice President,
Clinical Development*



**Mitch Jones, MD,
PhD**

*Vice President, Corporate
Development & Strategy*



DEEP EXPERIENCE

Capital efficient
company building

Translational science & global
clinical development

Delivering value
to stakeholders

Strong Board and Scientific Advisors



BOARD OF DIRECTORS

Dale Pfost, PhD

Chairman
Chief Executive Officer



Adi Mor, PhD

Director
Co-founder & Chief Scientific Officer



Neil Cohen, MA

Director



Alan Moses, MD

Director



Nissim Darvish, MD, PhD

Director



Claude Nicaise, MD

Director



Jill Quigley, JD

Director



SCIENTIFIC ADVISORS (Selected)

Marco Matucci-Cerinic, MD, PhD

Director of the Division of Rheumatology



UNIVERSITY OF FLORENCE
ITALY

Francesco Del Galdo, MD, PhD

Head of the Scleroderma Program at NIHR



UNIVERSITY OF LEEDS

Scott L. Friedman, MD

Dean for Therapeutic Discovery and Chief,
Division of Liver Diseases



Dinesh Khanna MD, MBBS, MSc

Director of the Scleroderma Program



Massimo Pinzani, MD, PhD, FRCP

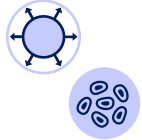
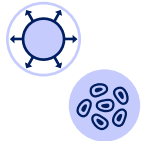
Sheila Sherlock Chair of Hepatology, Director
UCL Institute for Liver and Digestive Health



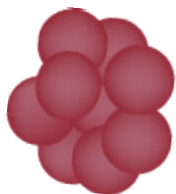
CM-101: Pipeline in a Product



ADDRESSING FIBRO-INFLAMMATORY DISEASES WITH HIGH UNMET NEED

PROGRAM		INDICATION	TARGET	DISCOVERY	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	UPCOMING MILESTONES
CM-101		Subcutaneous Formulation & Liver Fibrosis Biomarkers	CCL24	SC Route of Administration & biomarker data in NASH patients				◆ Treatment Concluded	Top-line Data 4Q 2022
		Primary Sclerosing Cholangitis	CCL24	Orphan designation granted by FDA and EMA				◆ Enrolling Patients	Top-line Data 2H 2024
		Systemic Sclerosis	CCL24	Orphan designation granted by FDA and EMA			◆ Phase 2 Initiates		Trial Initiates 4Q 2022/1Q 2023 Top-line Data 2H 2024
		Fibro-inflammatory Diseases	CCL24						
Next-Gen (Novel Targets)		TBD	Screening						

Differentiated by Our Dual-acting, Novel Target: CCL24



CCL24
The Target

A cytokine-family, soluble protein
central to the biology of
inflammation and fibrosis

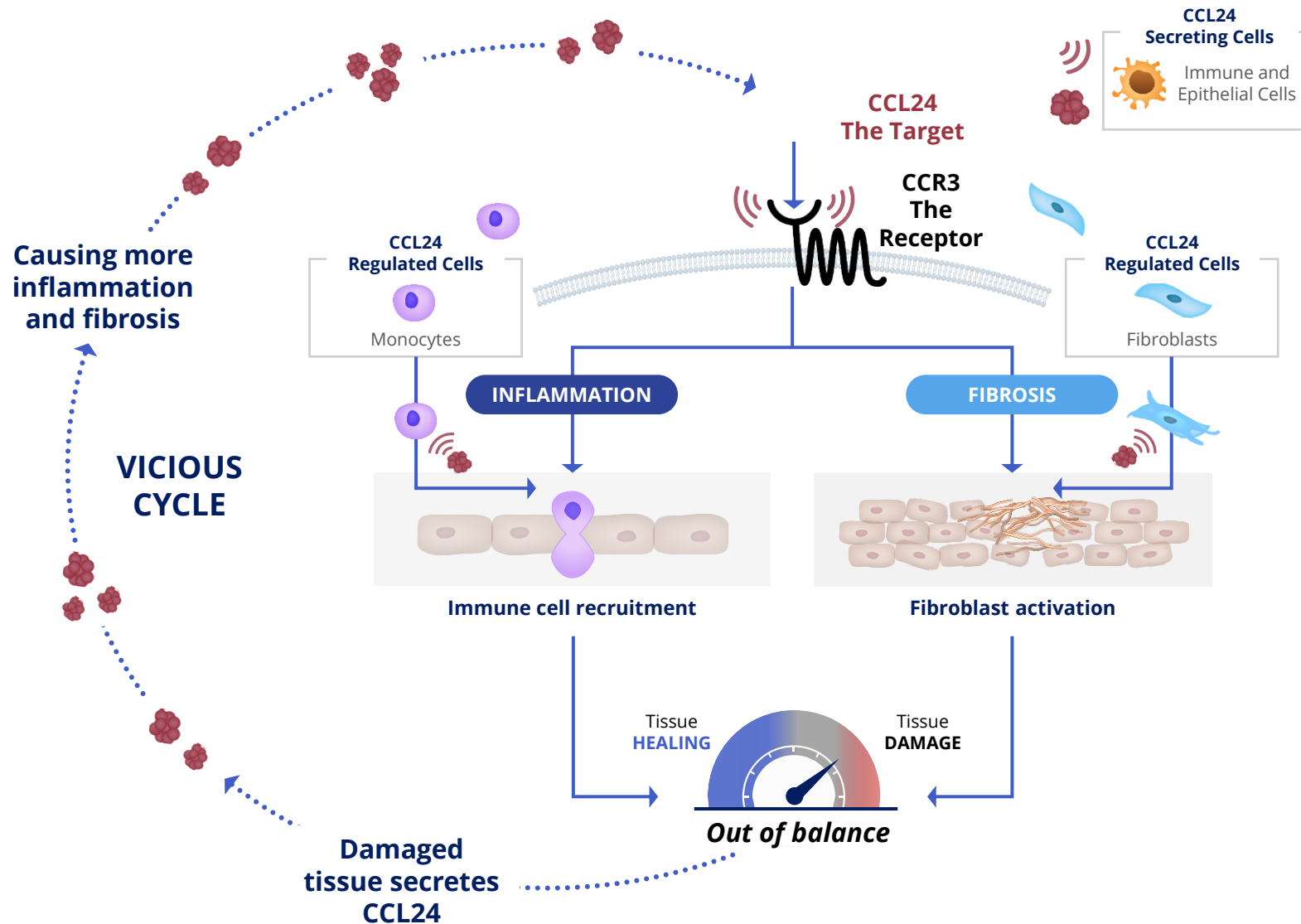


Our Advantages

**Leadership in Addressing
High Potential, Unique Target**

**De-risked via Extensive
Preclinical Validation**

CCL24's Role in The Vicious Cycle of Inflammation and Fibrosis



THE POWER OF CCL24

Dual Role in Promoting Fibrosis and Inflammation

Directly activates fibroblasts
Enhances local immune cell recruitment

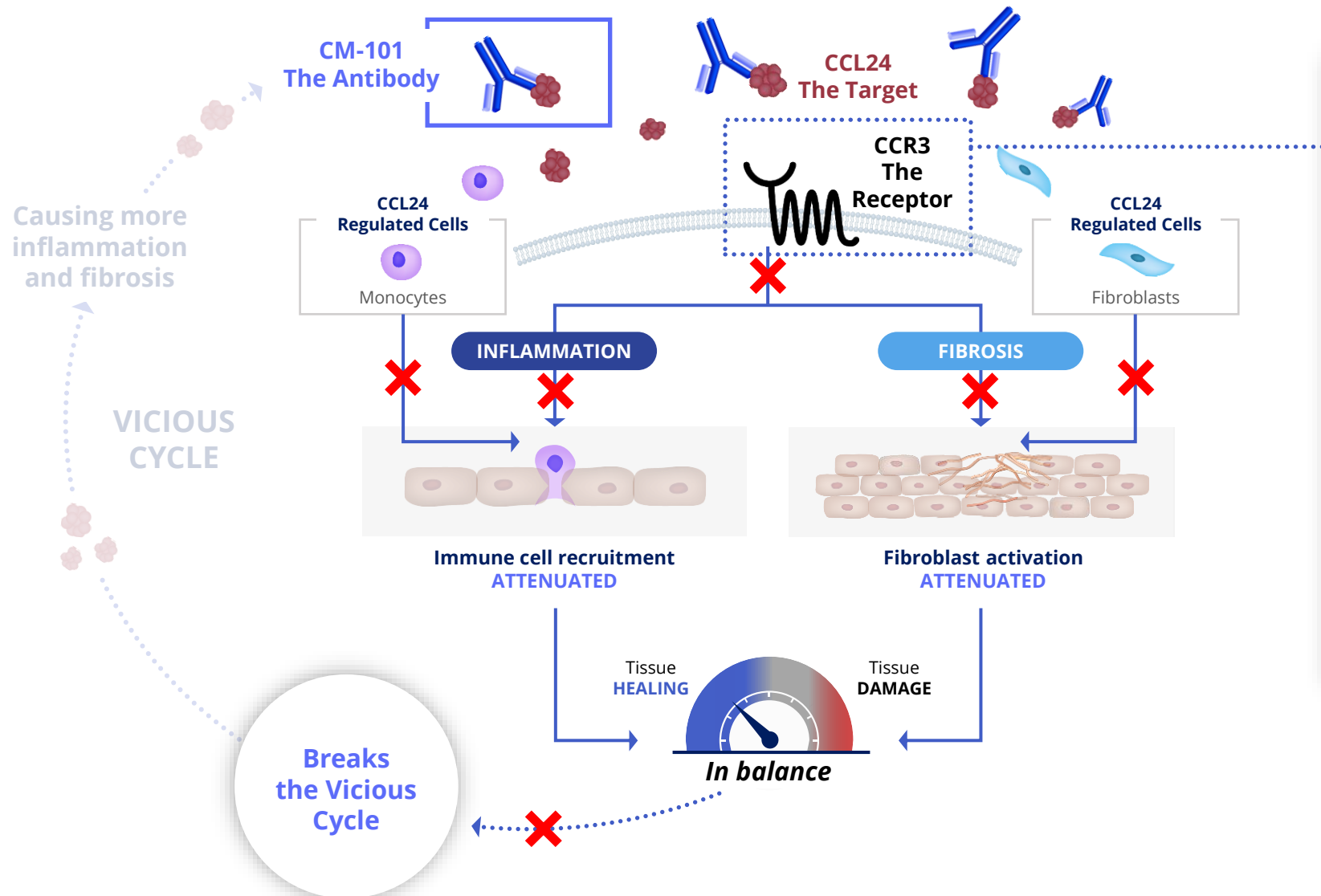
Differentiated Activity

Data shows **unique role** vs. other CCLs
Correlates with fibrotic biomarkers and disease outcome

Low in Healthy Tissue; Elevated in Fibrotic Tissue

Liver, skin, lung, kidney, others
Wide therapeutic margin

CM-101 Neutralizes CCL24, Breaking Vicious Cycle



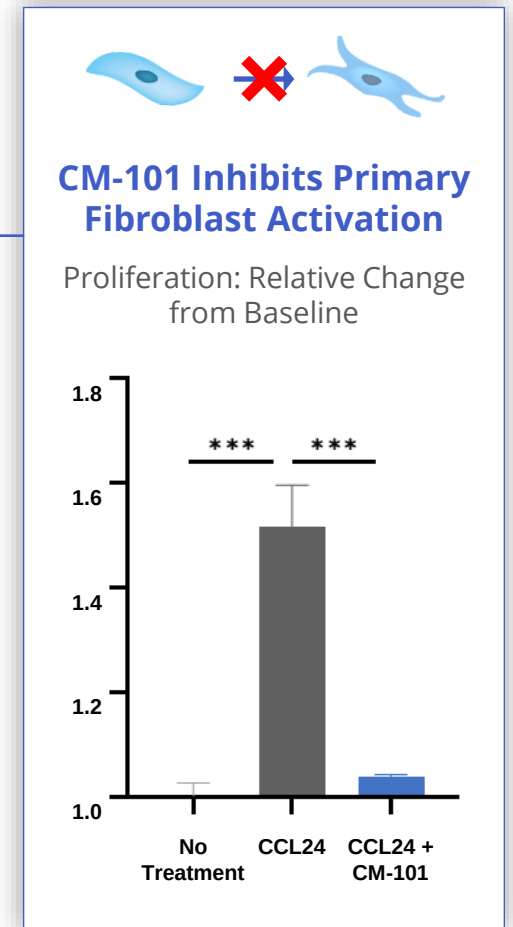
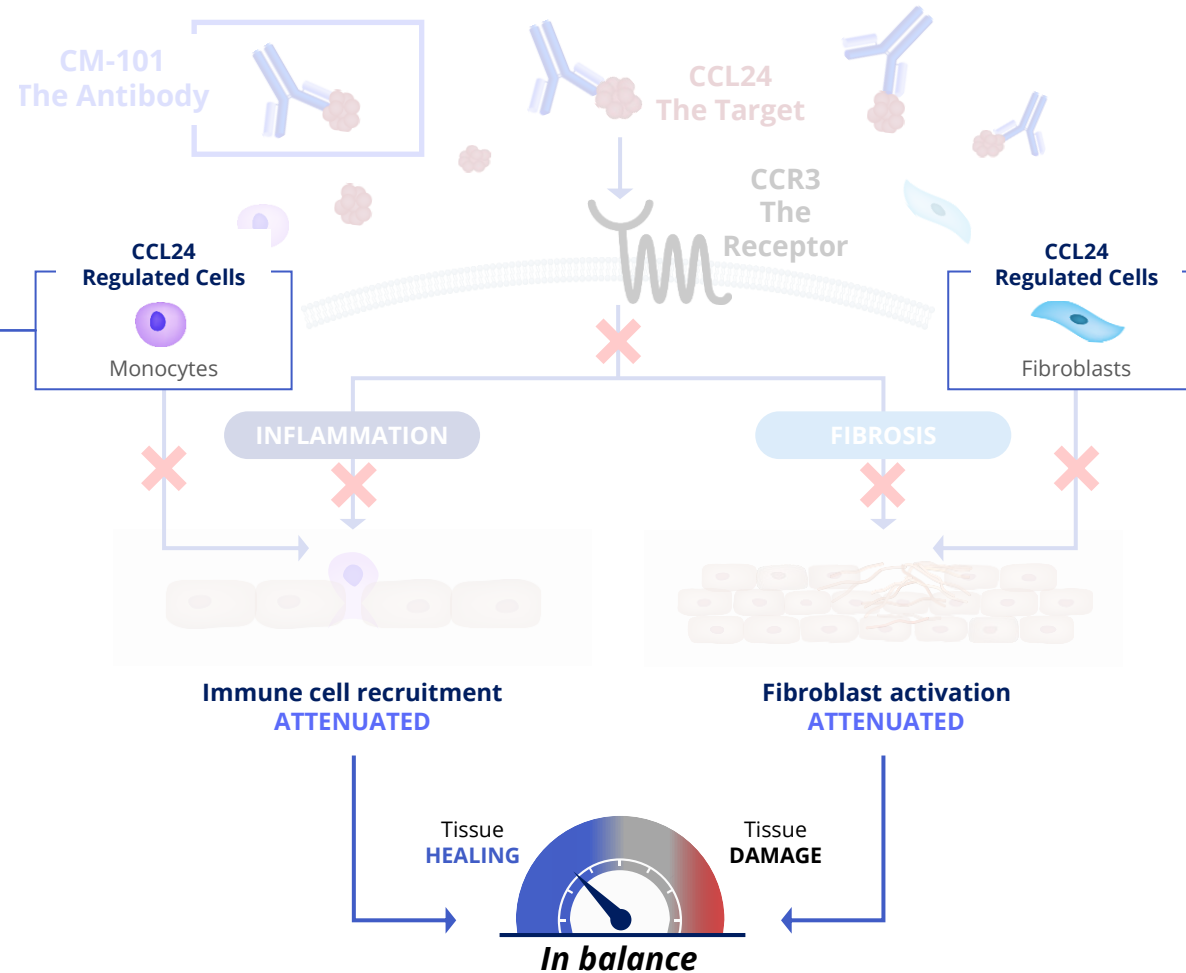
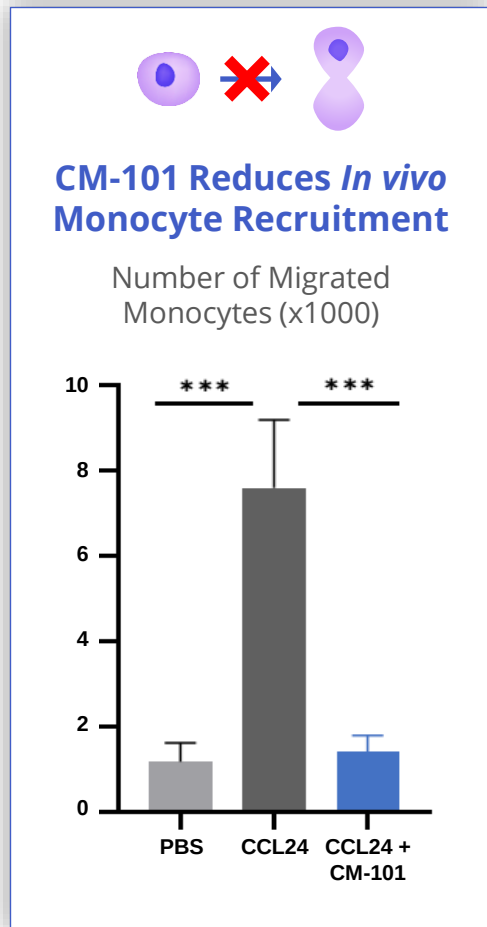
Neutralizing CCL24 Has Advantages Over Blocking the Receptor

Avoids context dependence of CCR3 receptor

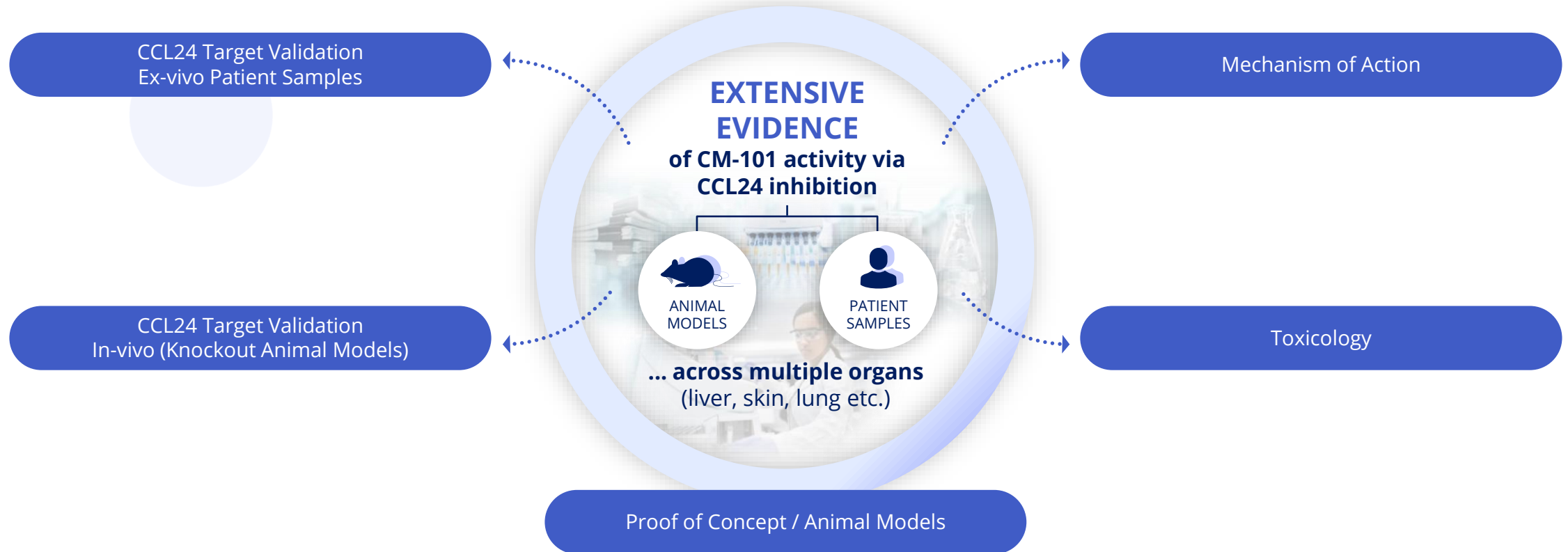
Efficacy of direct approach

Favorable safety profile; retains normal repair functions

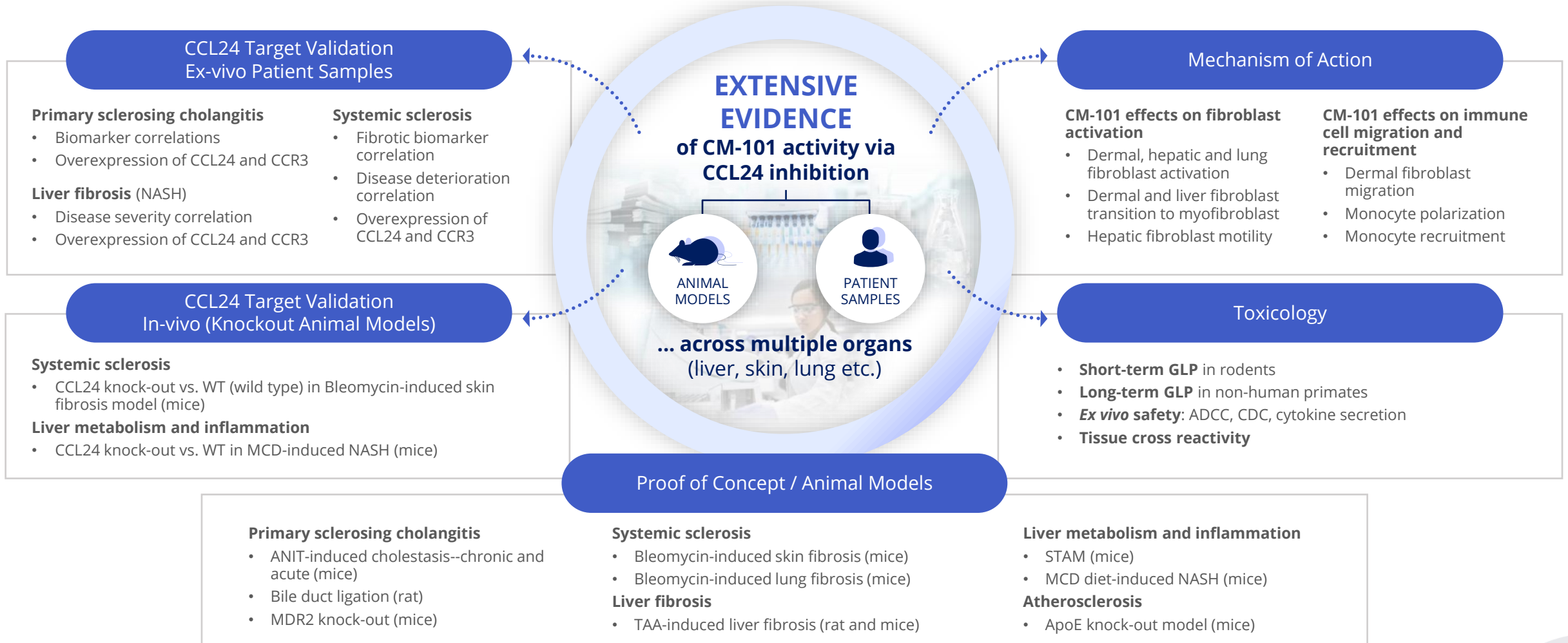
The Proof: First-in-Class CM-101 Neutralizes CCL24



Broad, Diverse Preclinical Evidence De-risks Clinical Development



Broad, Diverse Preclinical Evidence De-risks Clinical Development



40-50 Person
Years of Work

OVER

~10
Calendar Years

USING

~12 Different Animal
Disease Models

AND

300+
Patient Samples



CM-101 Safe & Well Tolerated in Phase 1a Trial

PHASE 1A STUDY – SINGLE ASCENDING DOSE STUDY

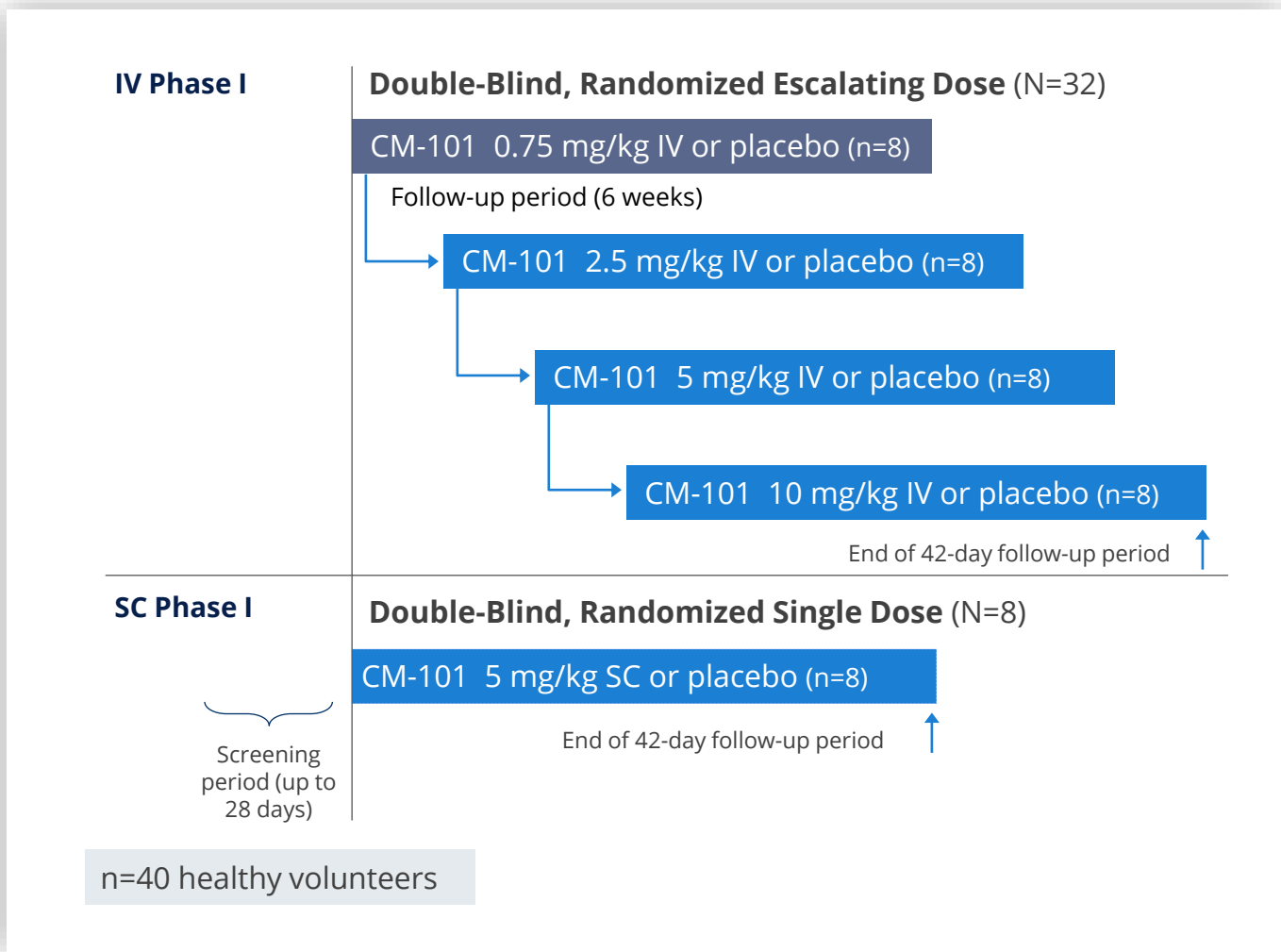
CM-101 was **safe and well tolerated** at all tested doses up to 10 mg/kg and for both IV and SC formulations

All drug related AEs were classified as **mild with no SAEs reported**

Average half-life of 19-21 days supports long interval **administration once every 2-4 weeks**

Achieved dose-dependent target engagement measured by serum CCL24 levels

SC and IV formulations showed **comparable target engagement** and **PK profiles**





CM-101 Safe & Well Tolerated in Subjects with NAFLD*

PHASE 1B MULTIPLE ADMINISTRATION STUDY

Study population: individuals with **NAFLD** and normal liver function

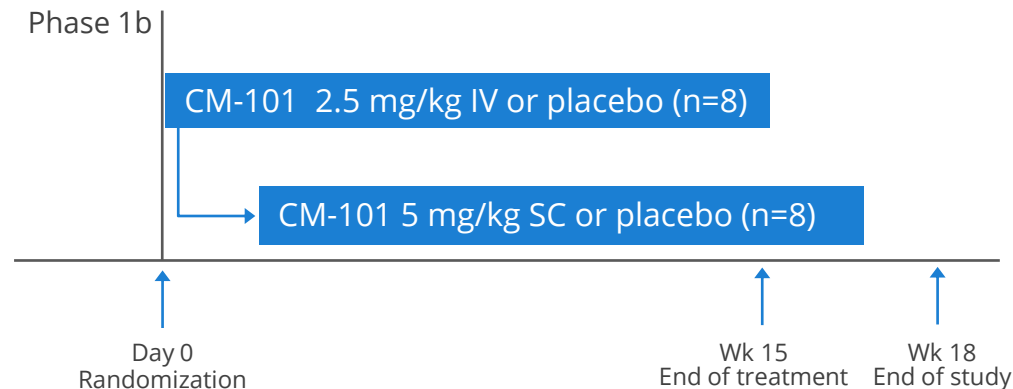
Multiple CM-101 administrations were **safe and well tolerated** using both **IV** and **SC formulations**

Most frequently reported AEs were **mild with no drug-related SAEs reported**

Favorable half-life supports **long dosing interval** (Q2W - Q4W)

Study Design

Double-Blind, Randomized Escalating Dose (N=16)



- Tested doses - 2.5 mg/kg IV infusion and 5 mg/kg SC injection
- 5 repeated administrations per subject; Q3W
- Primary endpoints - safety and tolerability

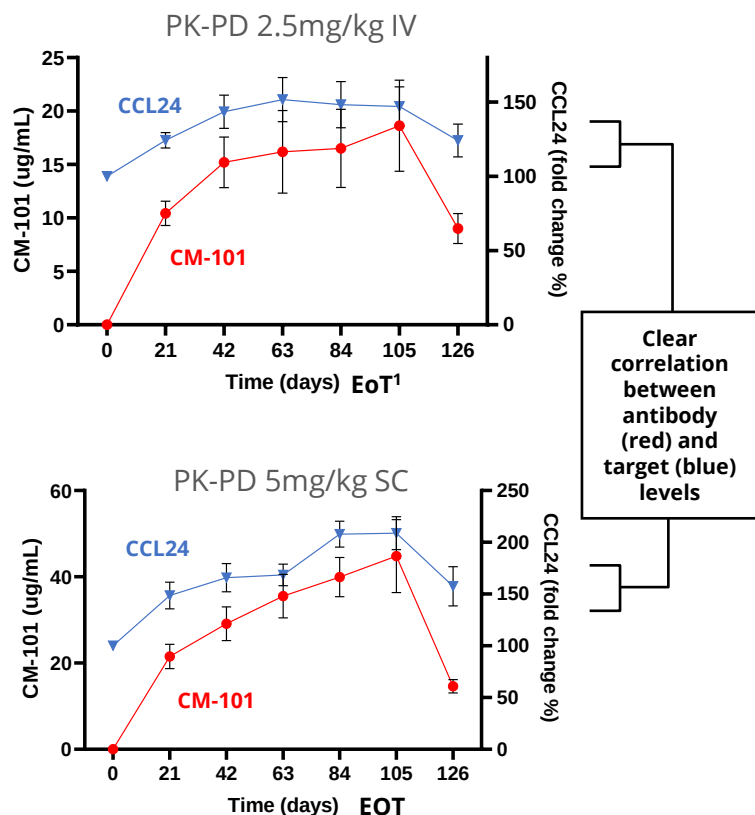
* Nonalcoholic fatty liver disease



PATIENTS

Anti-Fibrotic Mechanisms of CM-101 Confirmed in NAFLD Subjects

PK-TARGET ENGAGEMENT



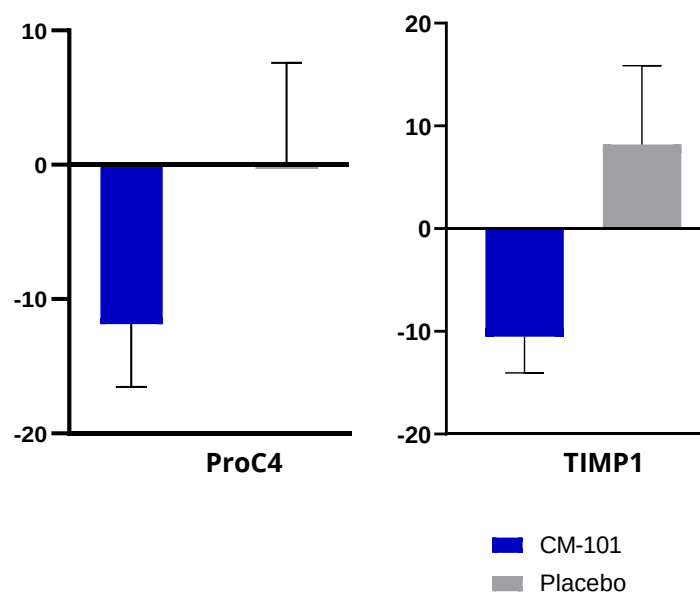
**Dose dependent
PK-target engagement**

CM-101

FIBROSIS

Biomarkers*

Relative Change from Baseline (%)



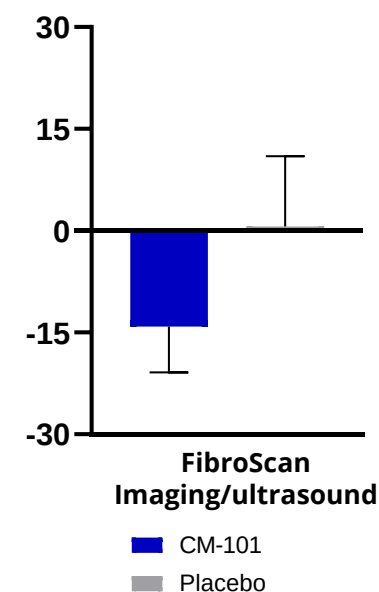
Concordant results across 6 additional fibrotic markers

**Improved
liver biomarkers**

LIVER STIFFNESS

Physiological Measure

Relative change from baseline (%)



N=10 active, 3 placebo
All doses; all subjects KPA > 4

**Decreased
liver stiffness**

*ProC4-Procollagen 4; TIMP1-Tissue inhibitor of metalloproteinase 1. EoT-End of Treatment

CM-101 Reduced Fibro-Inflammatory Biomarkers

INVESTIGATOR OPEN LABEL, SINGLE ARM STUDY EVALUATED SAFETY & ACTIVITY
IN COVID-19 PATIENTS WITH SEVERE LUNG DAMAGE*



KEY ENROLLMENT CRITERIA

- Enrolled 16 hospitalized Covid-19 patients with severe lung injury
- Received single I.V. administration of 10 mg/kg of CM-101
- Standard of Care treatment allowed -- corticosteroids, anti-coagulants & antivirals

PRIMARY OBJECTIVE:

- Assess safety & activity of CM-101 in patients with Covid-19-related severe pneumonia

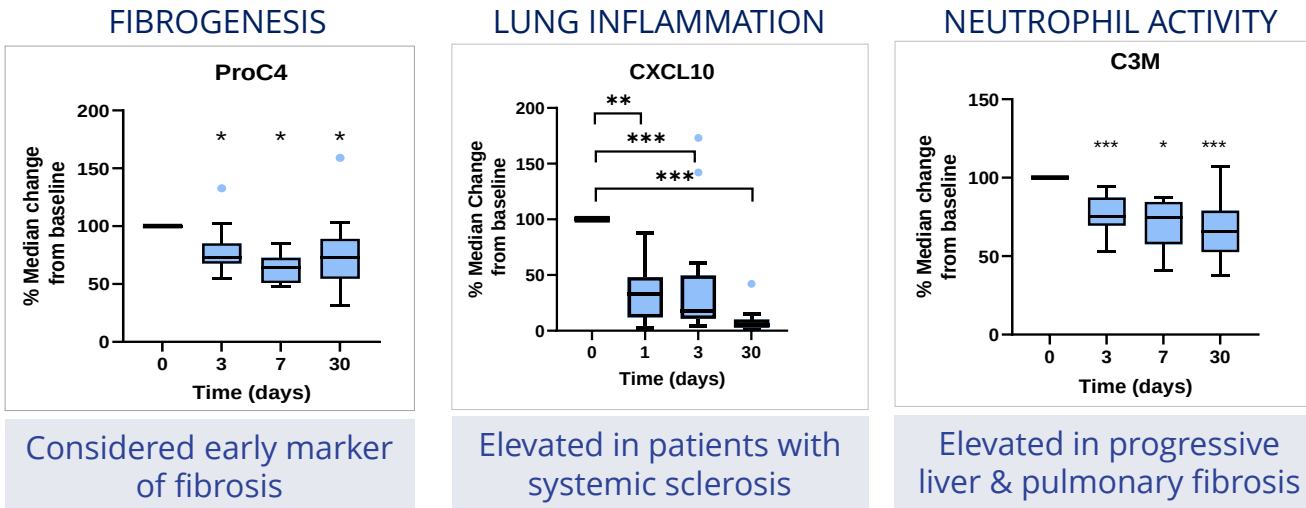
SECONDARY OBJECTIVE:

- Determine association between CM-101 treatment & chemokine/cytokine profile in patients

RESULTS

- CM-101 was safe & well-tolerated
- CM-101 demonstrated **strong & rapid reductions in biomarkers** associated with:
 - ✓ Lung inflammation
 - ✓ Fibrogenesis
 - ✓ Neutrophil activity
- Results are consistent with previous CM-101 clinical and preclinical data
- Further confirm potential of CM-101 **to attenuate inflammation & fibrosis in varied organs** including lung, liver & skin

CM-101 Demonstrated Strong & Rapid Reductions in Biomarkers Associated With:



CM-101 reduced lung inflammation & fibrogenesis biomarkers known to be associated with systemic sclerosis



CM-101

for the Treatment of
Primary Sclerosing
Cholangitis
(PSC)

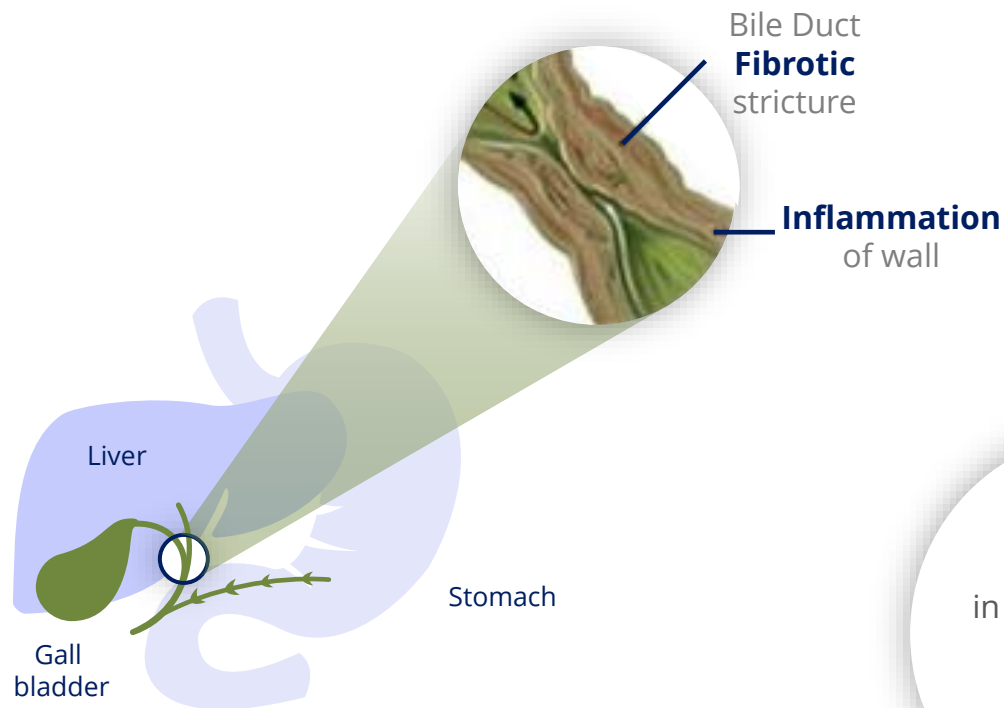
Primary Sclerosing Cholangitis (PSC): High Morbidity and Mortality



Rare, Chronic Liver Disease

CHARACTERIZED BY
INFLAMMATION AND FIBROSIS

DEVASTATING DISEASE WITH
NO APPROVED THERAPIES



Affects:
Mostly Men (2:1 Male/Female); Associated with IBD

Diagnosis:
Age ~30-40

Fibrosis shuts down bile duct
and acid backs up in liver

MEDIAN SURVIVAL
10 years with no intervention

End stage liver disease, cirrhosis and cancer

~77K patients in 7 major markets
>\$1B est. commercial opportunity

Liver transplant only therapy with some curative potential

CCL24 Plays a Key Role in PSC



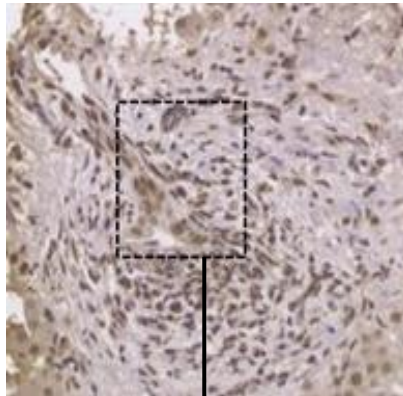
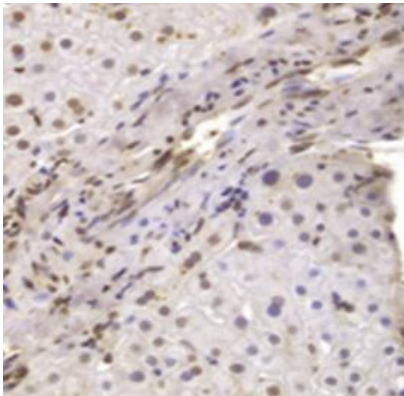
PATIENT
SAMPLES

CCL24 LEVEL IN HEALTHY VS PSC PATIENTS' LIVER TISSUE¹

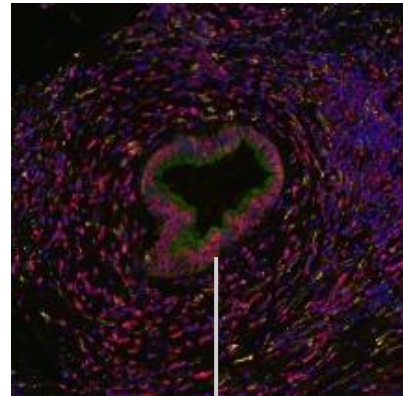
Healthy Liver

PSC Livers

CCL24 Staining



CCL24 (brown) overexpressed
in damaged bile duct area

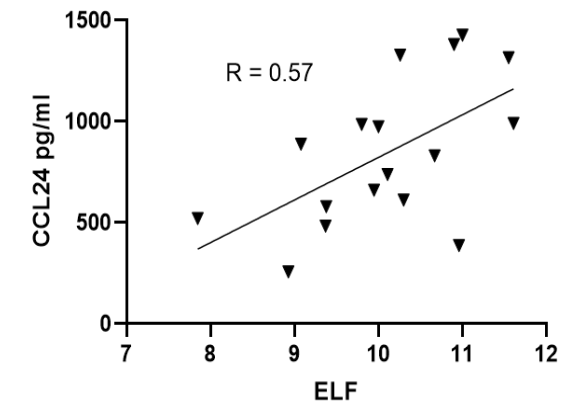


CCL24 (red) overexpressed in
bile epithelial cells (green) and
immune cells (yellow)

**CCL24 expression is significantly and
selectively elevated in PSC livers**

CCL24 SERUM LEVEL IN PSC PATIENTS

ALP > 1.5 Upper Limit of Normal



Enhanced Liver Fibrosis (ELF) test reflects fibrosis
and predicts clinical outcomes in PSC¹

**CCL24 correlates with ELF in PSC
patients with elevated ALP**

Data from patient samples supports clinical relevance of CCL24 in PSC

1. Collaboration with RFH, UK
ELF – Enhanced Liver Fibrosis; ALP – Alkaline Phosphatase

CM-101 Reduces Liver Fibrosis by >80% in TAA Model

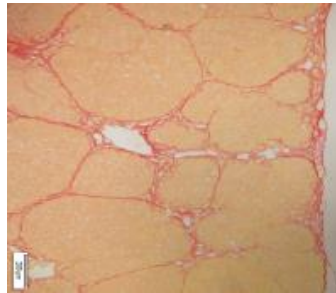
RAT MODEL LIVERS

SIRIUS RED (COLLAGEN)

Healthy



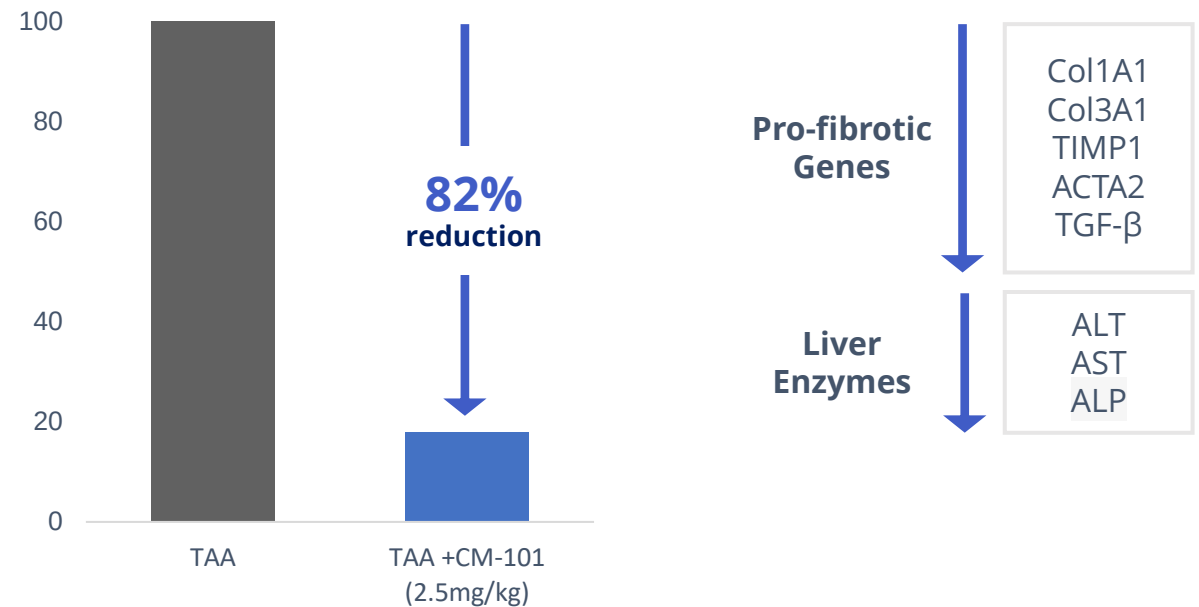
TAA
Fibrosis



TAA+
CM-101



% FIBROSIS (SIRIUS RED STAINING)

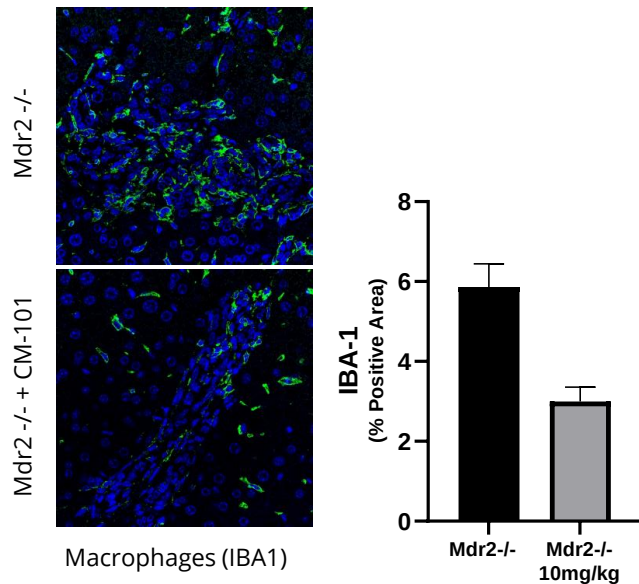


Dramatically reduced liver collagen in TAA liver fibrosis rat model with established liver fibrosis

CM-101 Ameliorates Liver Injury and Fibrosis in PSC Animal Model

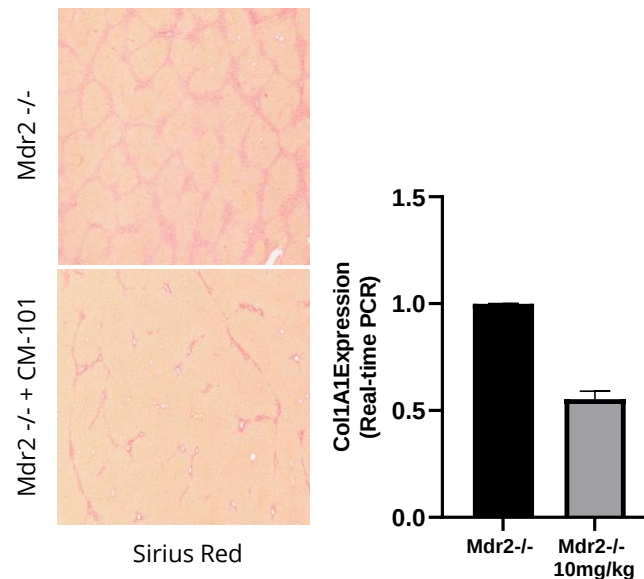


REDUCED MACROPHAGE NUMBER



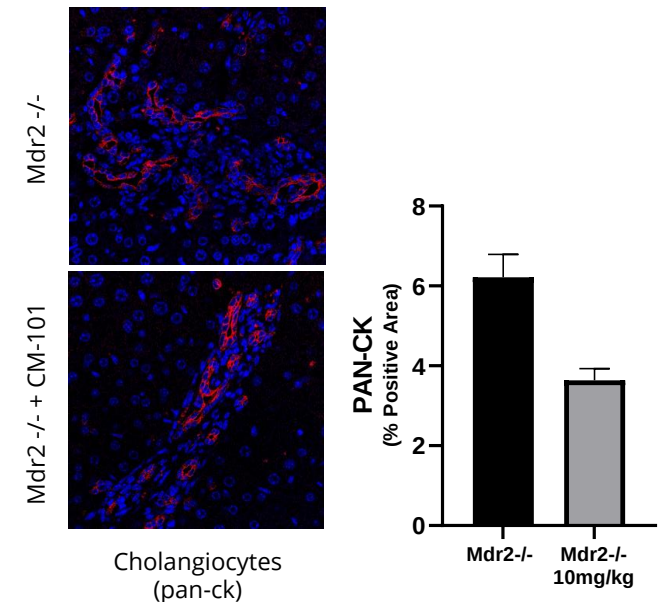
Reduction in
INFLAMMATION

ATTENUATED LIVER COLLAGEN DEPOSITION



Reduction in
FIBROSIS

REDUCED ABERRANT BILE EPITHELIAL PROLIFERATION

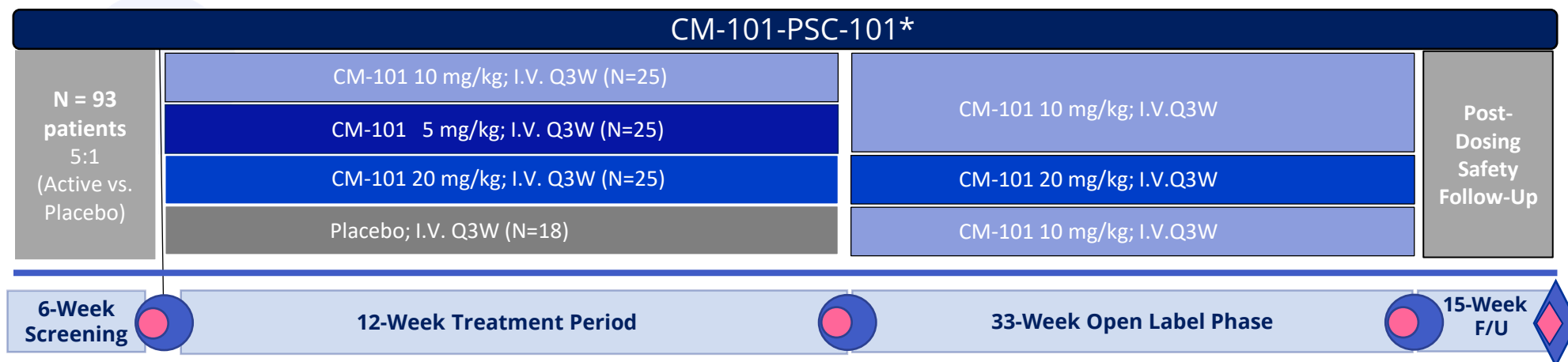


Main driver of
DISEASE PATHOLOGY

CM-101 interferes with **core pathways that drive PSC**

CM-101 Phase 2 Trial in Primary Sclerosing Cholangitis

RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED



* Protocol Amendment #3 design

- **Territories:** US, UK, Germany, Spain, Israel
- Orphan Drug Designation in US & EU

Key Enrollment Criteria

- PSC patients with large duct disease of >24 weeks duration
- ALP > 1.5 ULN
 - Stable IBD allowed
 - Stable UDCA treatment allowed

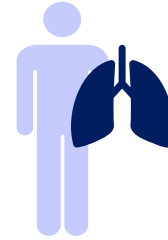
Outcome Measures

Primary - Safety

Secondary - Change from baseline to Week15 in:

- Serum alkaline phosphatase
- ELF score
- Fibrotic biomarkers/liver enzymes (e.g., AST, ALT, Pro-C3, Pro-C5), Fibroscan
- Pharmacokinetics
- Anti-Drug Antibody
- Pharmacodynamic parameters

Top-line results expected 2H 2024



CM-101

for the Treatment of
Systemic Sclerosis
(SSc)

Systemic Sclerosis (SSc): Most Lethal Systemic Rheumatic Disease



Rare Autoimmune Rheumatic Disease

CHARACTERIZED BY INFLAMMATION,
FIBROSIS AND VASCULOPATHY

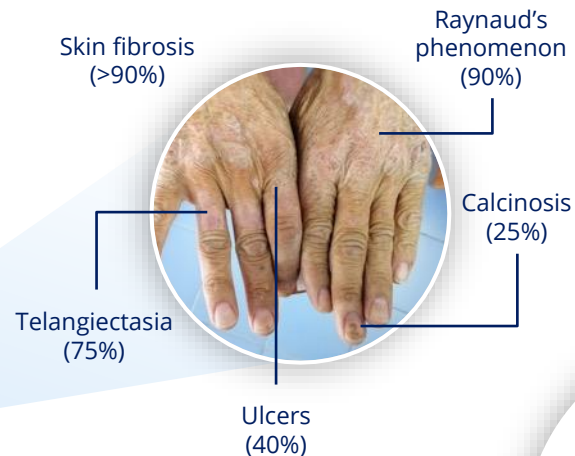
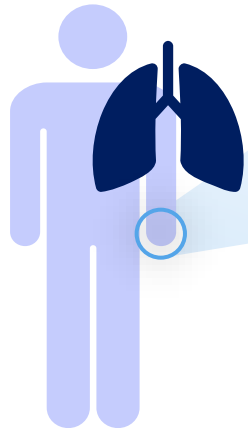
DEVASTATING DISEASE WITH
NO APPROVED DISEASE MODIFYING THERAPY

SKIN:

Most evident symptom

LUNG INVOLVEMENT:

Leading cause of death



~170K
patients
in 7 major markets
>\$1.5B
est. commercial
opportunity

Affects:

Predominantly Women (3:1 Female/Male)

Diagnosis:
Age ~30-50



MEDIAN SURVIVAL
10 years

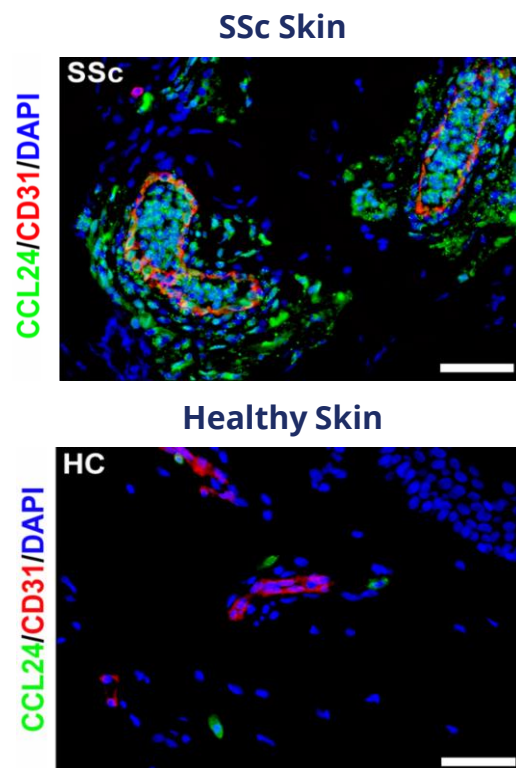
Pulmonary Involvement
leading cause of death

Nintedanib, Tocilizumab only treat symptoms,
NOT disease modifying

CCL24: A Critical Node Potentiating Systemic Sclerosis

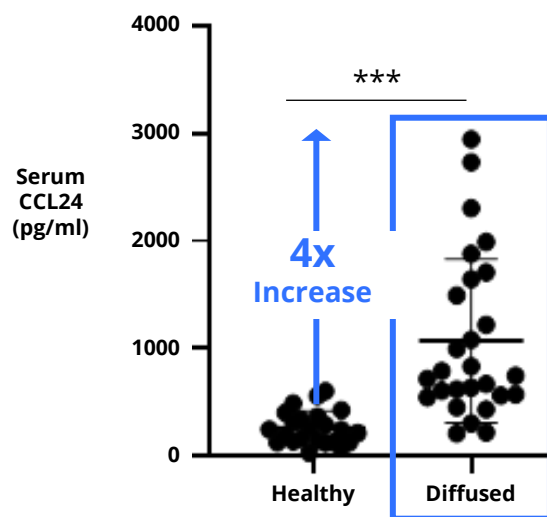


PATIENT
SAMPLES



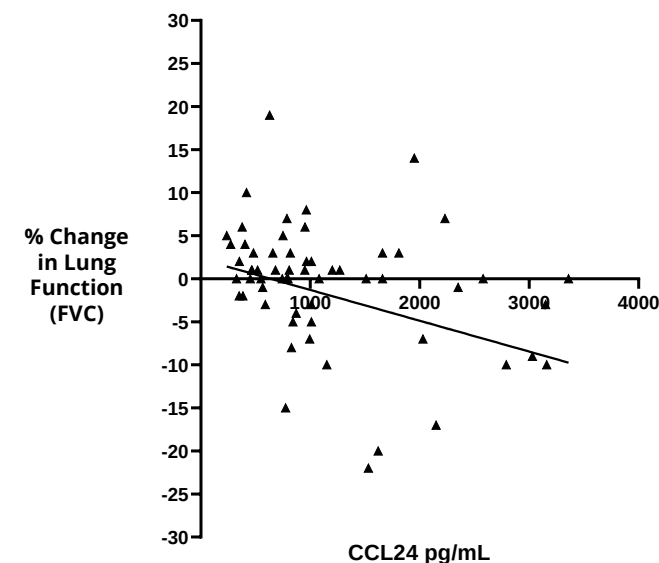
Collaboration with University of Florence

CCL24 SERUM LEVELS



CCL24 overexpressed in serum samples of dSSc patients compared to healthy

CCL24 SERUM LEVEL vs DISEASE PROGRESSION

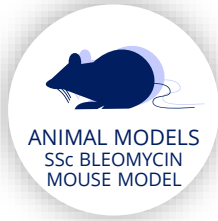


CCL24 serum level correlates with worsening of lung function

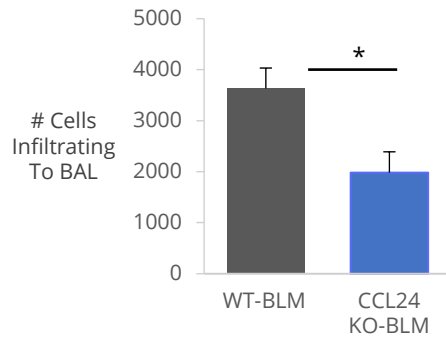
Data from patient samples supports potential therapeutic utility of blocking CCL24 in systemic sclerosis

Target Validation: CCL24 Gene Knockout Ameliorates Induced SSc

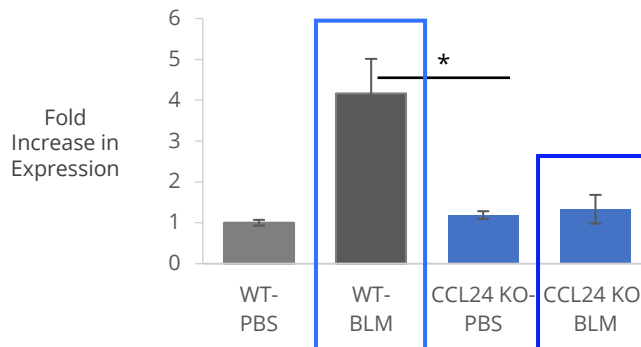
BLEOMYCIN-INDUCED SSc-LIKE CONDITION IN MICE



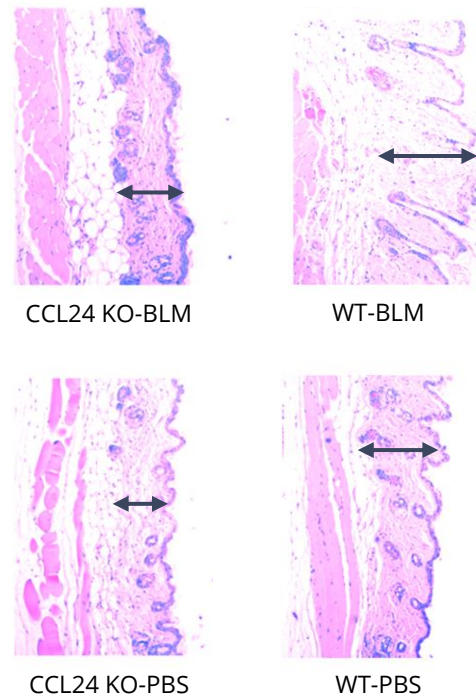
Immune Cell Lung Infiltration



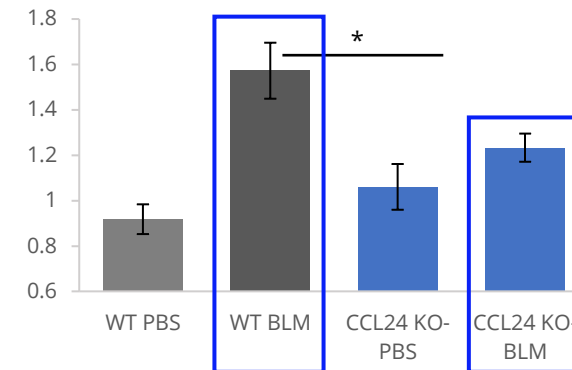
α SMA Expression in Skin Lesions



Dermal Thickness**



Dermal Thickness Compared To Average Control Groups



CCL24 Knockout attenuates induced SSc-like inflammation and fibrosis in lung and skin

Mor A et al., Annals of Rheumatic Diseases, 2019; BLM – Bleomycin; WT - Wild type; KO – Knock-out, BAL- Bronchoalveolar lavage, PBS- Phosphate-buffered saline

*p $\leq$ 0.05

** Thickness measures taken at multiple locations on samples. Arrows on graphic are for illustrative purposes only

CM-101 Significantly Reduces Skin and Lung Fibrosis in Induced SSc

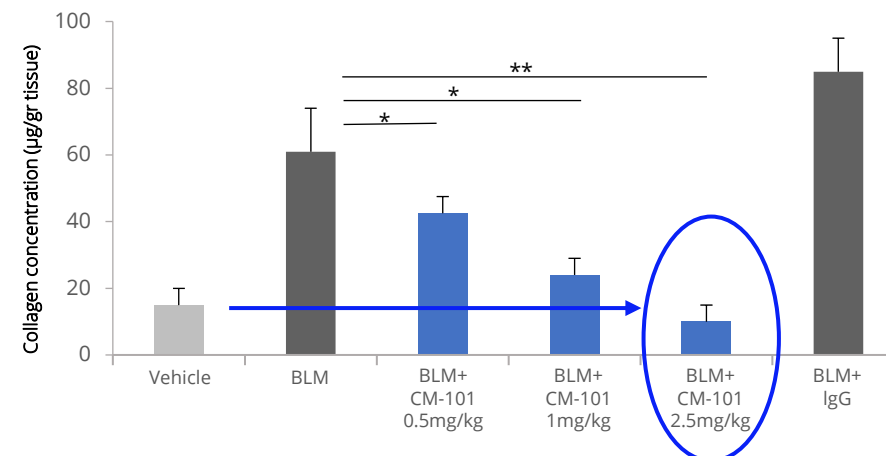


Attenuates skin and lung fibrosis levels
in bleomycin-induced animal models

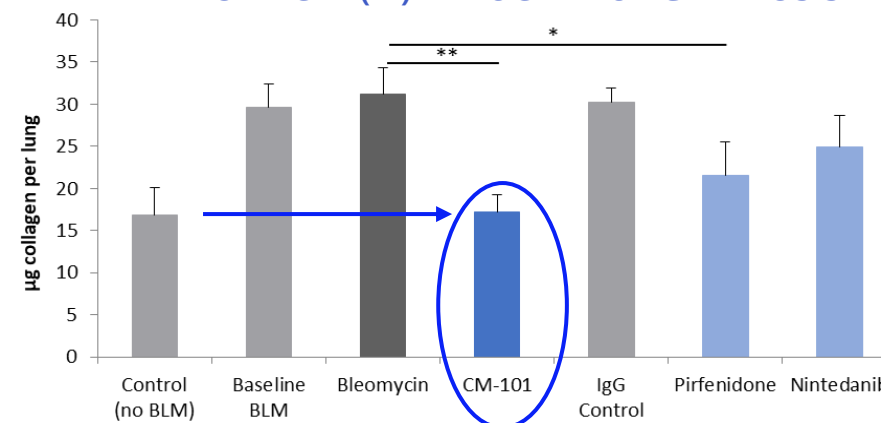
Demonstrates dose dependent
attenuation of fibrosis

Reduces lung collagen and inflammation
compared to 2 approved drugs
for lung fibrosis

BLEOMYCIN (SC)-INDUCED DERMAL FIBROSIS

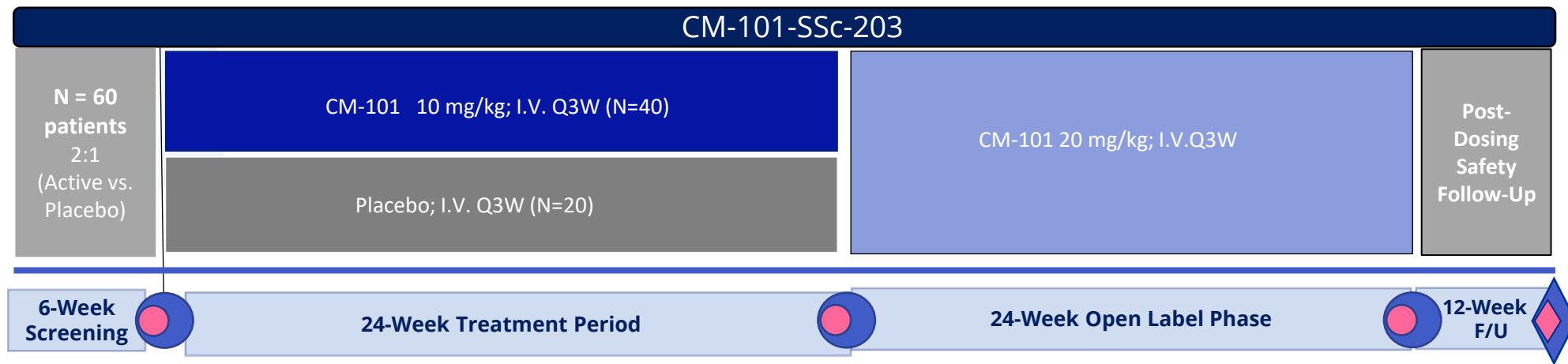


BLEOMYCIN (IT)-INDUCED LUNG FIBROSIS



CM-101 Phase 2 Trial in Systemic Sclerosis

RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED



- **Territories:** US, UK, EU, Israel
- Orphan Drug Designation in US & EU

Key Enrollment Criteria

- SSC patients with active disease (dermatologic or pulmonary) & high circulating levels of CCL24
- Half with limited SSc; half with diffuse cutaneous SSc

Outcome Measures

Primary: Safety & tolerability

Secondaries:

- Serum biomarkers:
 - Inflammatory cytokines
 - Vascular & growth factor-related
 - Pulmonary-related
 - Fibrogenesis & ECM-related
- Skin biopsy
- Pharmacokinetics & target engagement

Exploratory:

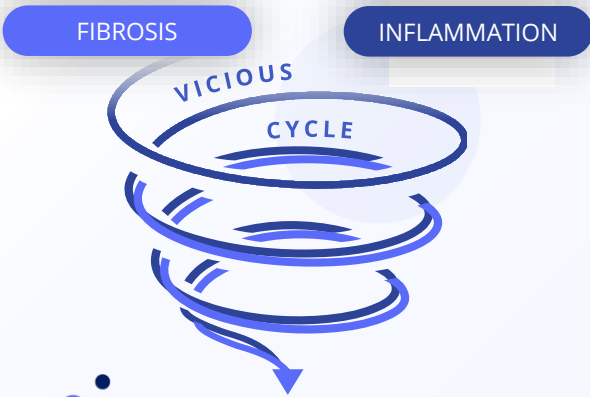
- Clinical & biological outcomes

Top-line results expected 4Q 2024

CM-101 Clinical Development Plan Overview



	STATUS	2021	2022	2023	2024	
	Liver Fibrosis/ Subcutaneous Formulation	Treatment Concluded: Measure SC formulation safety, PK & exploratory biomarkers in NASH	Phase 2a: 16-week treatment Randomized, placebo-controlled Israel study sites			Top-line data expected 4Q 2022
	Primary Sclerosing Cholangitis	Expanded Enrollment: Adding sites, dose- ranging cohorts & open label extension	Phase 2: 15-week treatment Randomized, placebo-controlled US, Europe and Israel study sites			Top-line data expected 2H 2024
	Systemic Sclerosis	Initiating Trial: Establish proof-of- biology; assess effects on skin, lung, vascular mechanisms		Phase 2: Randomized, placebo-controlled US, Europe and Israel study sites		Trial initiation 4Q 2022/1Q 2023 Top-line data expected 2H 2024



**Clinical stage
biotech company**
discovering and developing
innovative therapeutics
for fibro-inflammatory
diseases with high
unmet need

Summary

CM-101: Addresses CCL24 - Unique and Differentiated Target

- Novel, **broadly applicable** fibro-inflammatory disease target

Disease-Modifying Pipeline in a Product

- **De-risked** by extensive animal, patient sample & early human data

Focus on High Value Rare Diseases

- With **high unmet need** & strong **commercial potential**

Clinical Trials Designed to:

- Reduce risk—**increase probability of success**
- Position CM-101 for potential registrational studies
- Preserve capital—cash runway through estimated end-2023

Opportunities in Other Indications

- That share **similar biologic pathways** & pathology

Thank you.

