



Pioneering Innovative Treatments for Fibrotic Diseases

Corporate Overview | Non-Confidential | September 2021

Forward Looking Statements



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Investment Highlights

Clinical Stage Biotech Company Focused on Inflammatory-Fibrotic Diseases



Focus

- Discovery and development of innovative therapeutics for rare inflammatory and fibrotic diseases with high unmet need

CM-101: A Pipeline in a Product

- CM-101, a first-in-class CCL24 neutralizing monoclonal antibody targeting:
 - Primary Sclerosing Cholangitis (PSC)
 - Systemic Sclerosis (SSc)
 - Liver fibrosis (MoA*)

Near-Term Catalysts

- Conducting 2 Phase II clinical trials with 3rd Phase II trial expected to initiate in 1Q22
- First clinical readouts targeted for 2022 expected to drive multiple value inflections

Robust IP Portfolio

- Global patent exclusivity through 2041. Granted composition of matter patent with multiple additional patents pending.

Top Tier Investors



**Cormorant Asset
Management**

THIEL

Solid Balance Sheet

- Cash and equivalents of \$67M as of June 30, 2021 enabling runway through mid-2023

*MoA – Mechanism of Action

Experienced Management



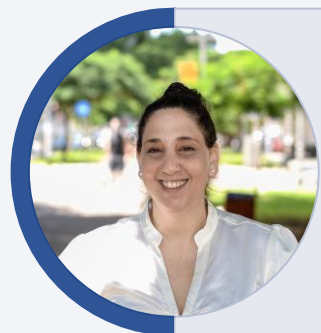
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*Founding Chief Executive Officer &
Chief Scientific Officer*



DALE PFOF, PhD*

Incoming Chief Executive Officer



SIGAL FATTAL, CPA

Chief Financial Officer



ARNON AHARON, MD

Chief Medical Officer



SHARON ELKOBI, MSc, MBA

VP Business Development



MICHAL SEGAL-SALTO, PhD

VP Research and Development



Experienced Leadership



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Chairman of the Board



Adi Mor, PhD

*Founding Chief Executive Officer &
Chief Scientific Officer*



Alan Moses, MD

Director



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Director



Dale Pfof, PhD*

Incoming Chief Executive Officer



Joel Maryles, CFA, MBA

Director



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*Post shareholder vote

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Massimo Pinzani, MD, PhD, FRCP

*Sheila Sherlock Chair of Hepatology, Director UCL
Institute for Liver and Digestive Health, RFH, London, UK*

CM-101: Pipeline in a Product

Addressing Fibrotic Diseases with High Unmet Need

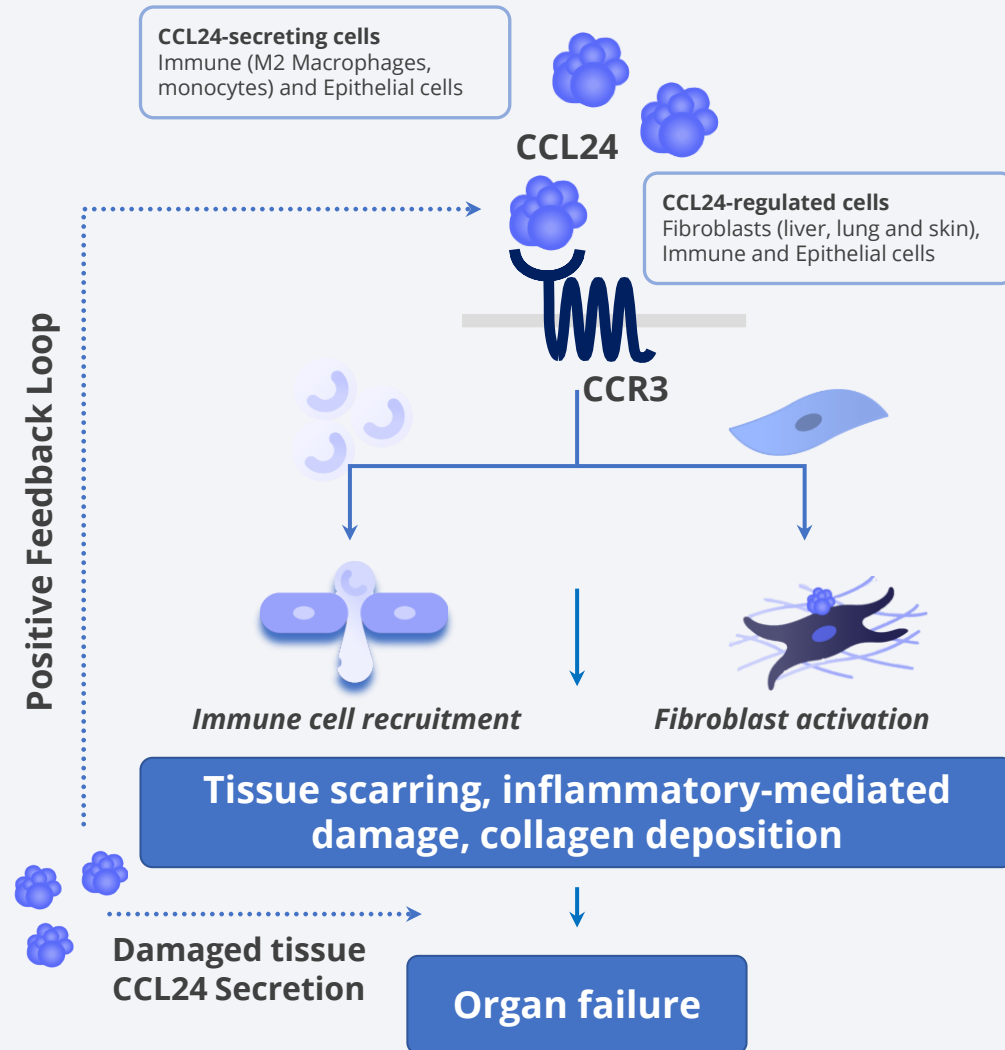


Program	Indication	Target	Discovery	Preclinical	Phase 1	Phase 2	Status
CM-101	Primary Sclerosing Cholangitis	CCL24	Orphan designation granted from FDA and EMA				Enrolling Patients Top Line Data 2H 2022
CM-101	Systemic Sclerosis	CCL24	Orphan designation granted from FDA and EMA				Initiation Expected In 1Q 2022
CM-101	Liver Fibrosis (MoA*)	CCL24	Mechanism of Action & SC Route of Administration (in NASH patients)				Enrolling Patients Top Line Data 1H 2022
Next-gen	Fibrosis	Screening					In Progress

*MoA – Mechanism of Action

CCL24 is a Novel Therapeutic Target for Fibrosis

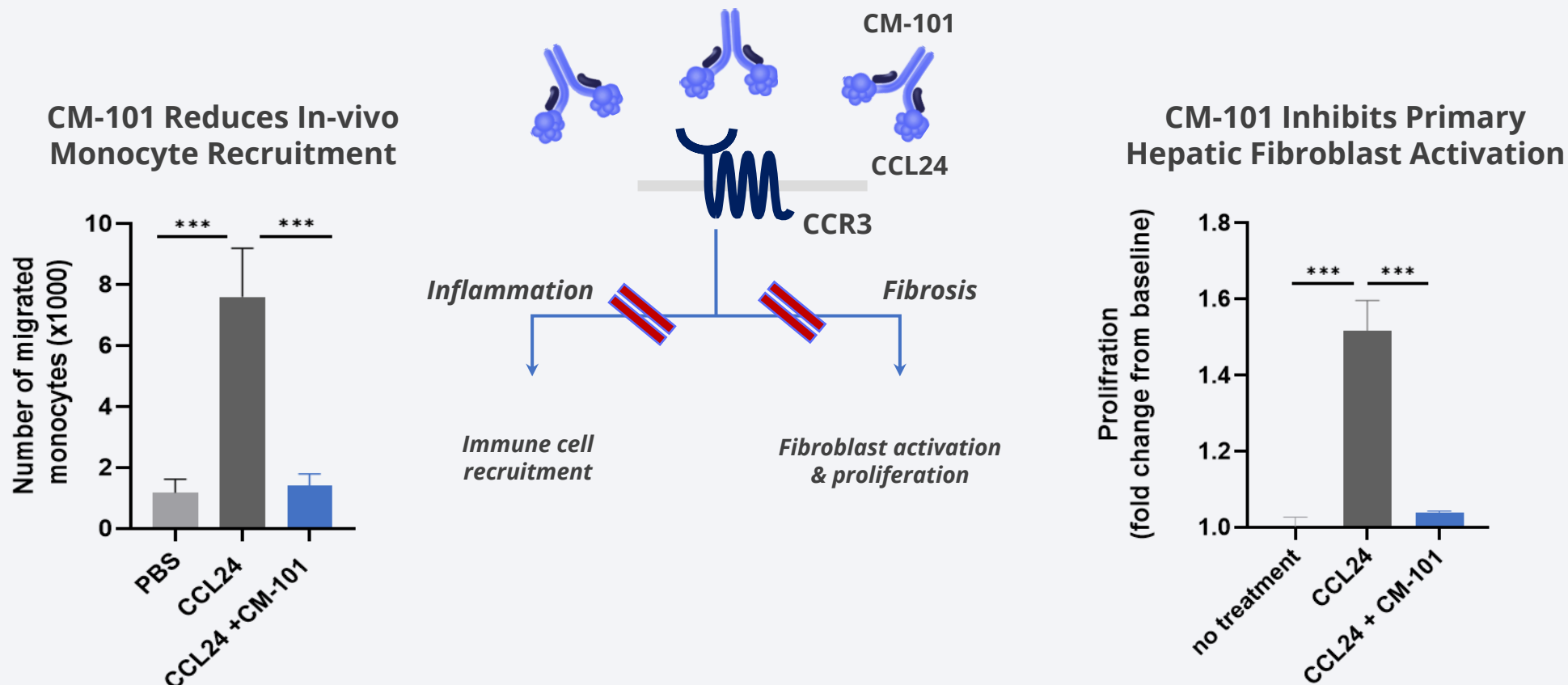
Critical Mediator Promoting Inflammation and Fibrosis



- ✓ **Dual role in promoting fibrosis**
 - directly activates fibroblasts
 - enhances local immune cell recruitment
- ✓ **Unique and differentiated activity**
 - ex vivo and in vivo data confirms unique role vs other CCLs
 - correlates with disease outcome and fibrotic biomarkers
- ✓ **Minor expression in healthy tissue**
 - significantly elevated in liver, skin, lung fibrotic tissue
 - wide therapeutic margin
- ✓ **Positive feedback loop potentiates tissue damage**
 - responsible for initiation and perpetuation of fibrosis

CM-101: A First-in-Class mAb Blocking CCL24

Dual Mechanism of Action Interfering with the Core Fibrotic Pathways



CM-101 attenuates inflammation and fibrosis by inhibiting fibroblast activation and immune cell recruitment

Strong Preclinical Evidence of CM-101 via CCL24 Inhibition



Significant Attenuation of Fibrosis & Inflammation Across a Wide Range of Models

CCL24 Target Validation

Ex-Vivo (Patient Samples)

Primary sclerosing cholangitis

- Biomarker correlations
- Overexpression of CCL24 and CCR3

Systemic Sclerosis

- Fibrotic biomarkers correlation
- Disease deterioration correlation
- Overexpression of CCL24 and CCR3

Liver Fibrosis (NASH)

- Disease severity correlation
- Overexpression of CCL24 and CCR3

In-Vivo (Knockout Animal Models)

Systemic Sclerosis

- CCL24 knock out vs. WT in Bleomycin induced skin fibrosis model (mice)

Liver metabolism and inflammation

- CCL24 knockout vs. WT in MCD-induced NASH (mice)

Proof of Concept\Animal Models

Primary sclerosing cholangitis

- ANIT induced cholestasis-chronic and acute (mice)
- Bile duct ligation (rat)
- MDR2 knock-out (mice)

Systemic sclerosis

- Bleomycin-induced skin fibrosis (mice)
- Bleomycin induced lung fibrosis (mice)

Liver Fibrosis

- TAA induced liver fibrosis (rat and mice)

Liver metabolism and inflammation

- STAM (mice)
- MCD diet induced NASH (mice)

Atherosclerosis

- ApoE knock out model (mice)

Mechanism of Action

CM-101 effects on fibroblast activation

- Dermal, Hepatic and Lung fibroblast activation
- Dermal and liver fibroblast transition to myofibroblasts
- Hepatic fibroblast motility

CM-101 effects on immune cells migration and recruitment

- Dermal fibroblast migration
- Monocyte polarization
- Monocyte recruitment

Toxicology

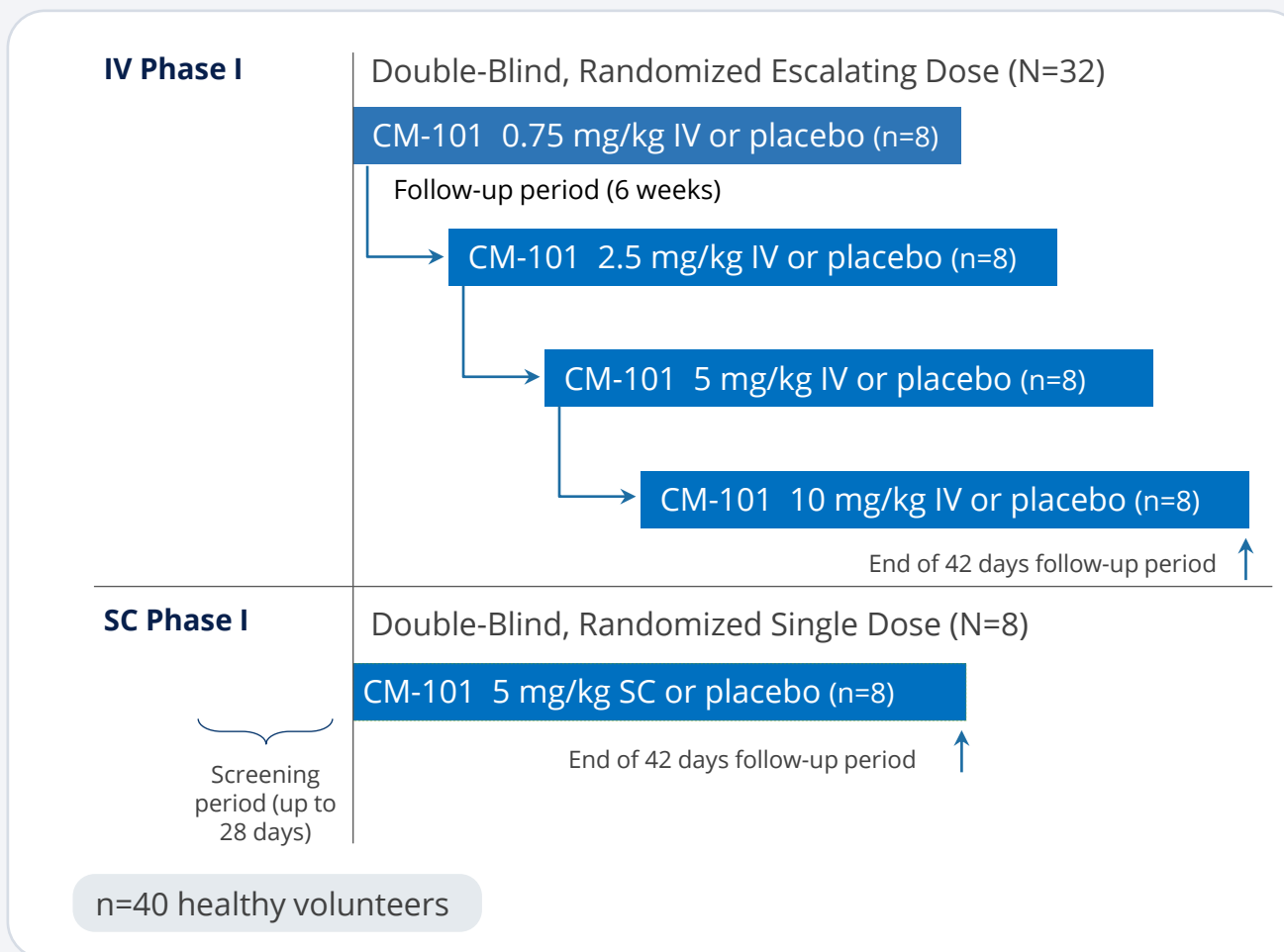
- **Short-term GLP** in rodents
- **Long-term GLP** in Non-human primates
- **Ex-vivo safety:** ADCC, CDC, cytokine secretion
- **Tissue cross reactivity**

Phase Ia Results



Single Ascending Dose Study Shows CM-101 to be Safe and Well Tolerated in Healthy Volunteers

- CM-101 was **safe and well tolerated** at all tested doses up to 10 mg/kg and for both formulations
- All drug related AEs were classified as **mild with no SAEs reported**
- Average half-life of 19-21 days (for IV and SC), supports long interval **administration once every 2-4 weeks**
- **Dose-dependent target engagement** measured by serum CCL24 levels
- **Comparable target engagement & PK profiles** for the SC and IV formulations



Phase Ib Results

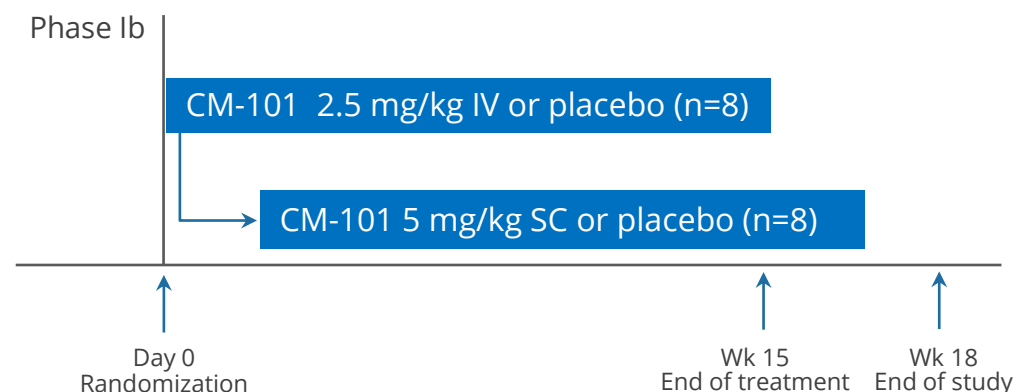
Multiple Administration Study Showed CM-101 to be Safe & Well Tolerated in NAFLD Patients



- Study population: **NAFLD patients** with 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 $t_{1/2}$, supports **long dosing interval** (Q2W - Q4W)

Study Design

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



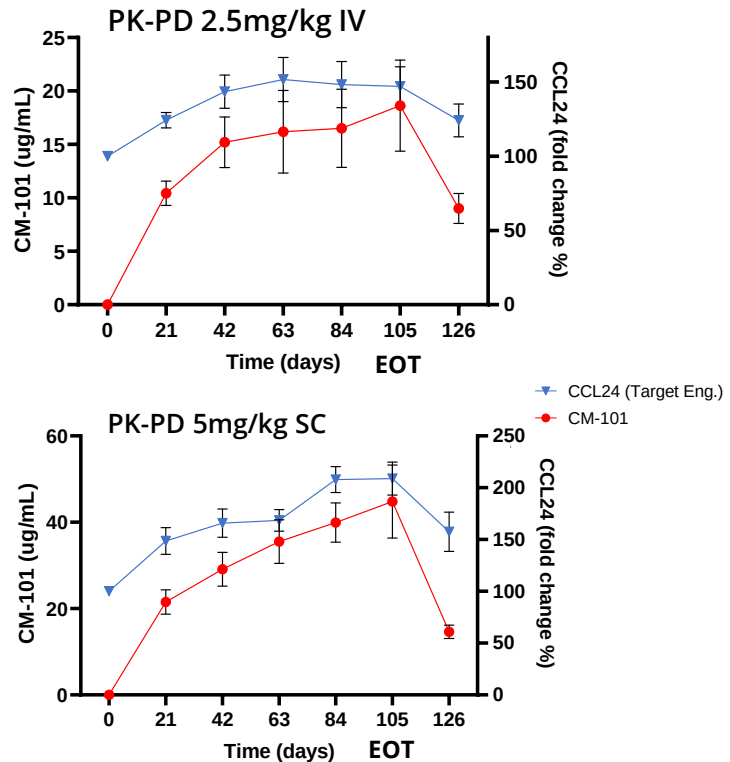
- Tested doses - 2.5 mg/kg IV infusion and 5 mg/kg SC injection
- 5 repeated administrations per patient; Q3W
- Primary endpoint - safety and tolerability

Phase Ib: Confirms CM-101 Anti-Fibrotic Mechanism in Humans

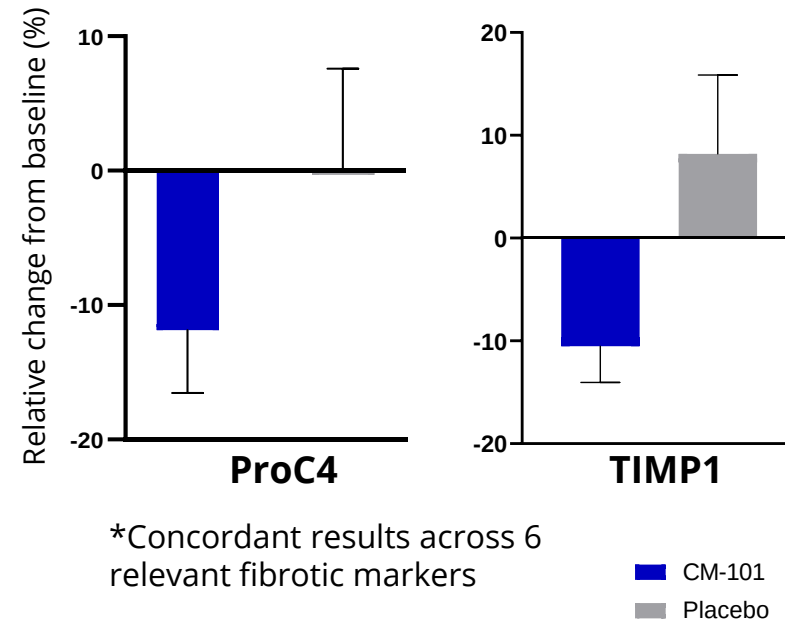
Demonstrated Biomarker Improvement with Dose-Dependent PK-Target Engagement



PK-Target Engagement



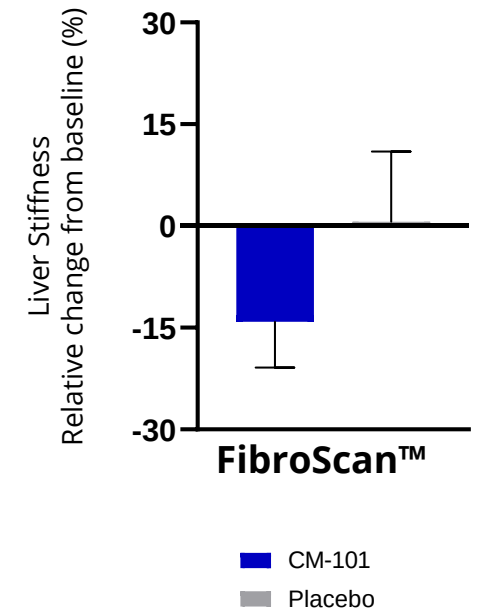
Fibrotic Biomarkers Improved*



*Concordant results across 6 relevant fibrotic markers

Nordic Biosciences, Denmark

Elastography Decreased



ProC4-Procollagen 4
TIMP1- metalloproteinase inhibitor 1
EOT-End of Treatment



CM-101 for the Treatment of Primary Sclerosing Cholangitis

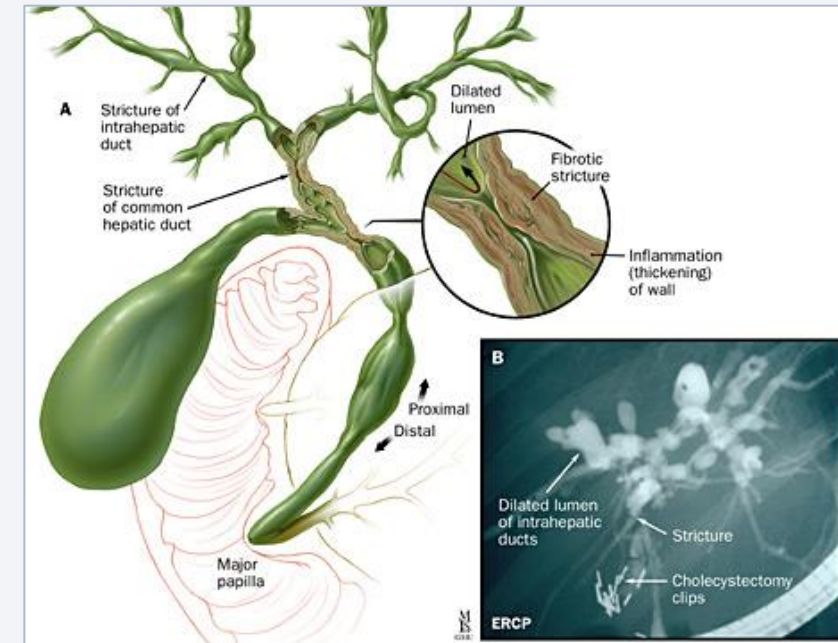


Primary Sclerosing Cholangitis (PSC)

Characterized by High Morbidity and Mortality



- **PSC is a rare, chronic liver disease** characterized by progressive course of cholestasis **with inflammation and fibrosis** of the intrahepatic and extrahepatic bile ducts **leading to end-stage liver disease and cirrhosis**
- Diagnosis is most often between the **age of 30 and 40 years**; Predominantly affect men (2:1 male:female ratio)
- **No FDA approved drug**; Liver transplant is the only therapy with curative potential
- **Median Survival of 10-12 years** with no intervention
- ~77K patients in 7 major markets



Source: Johns Hopkins Medicine

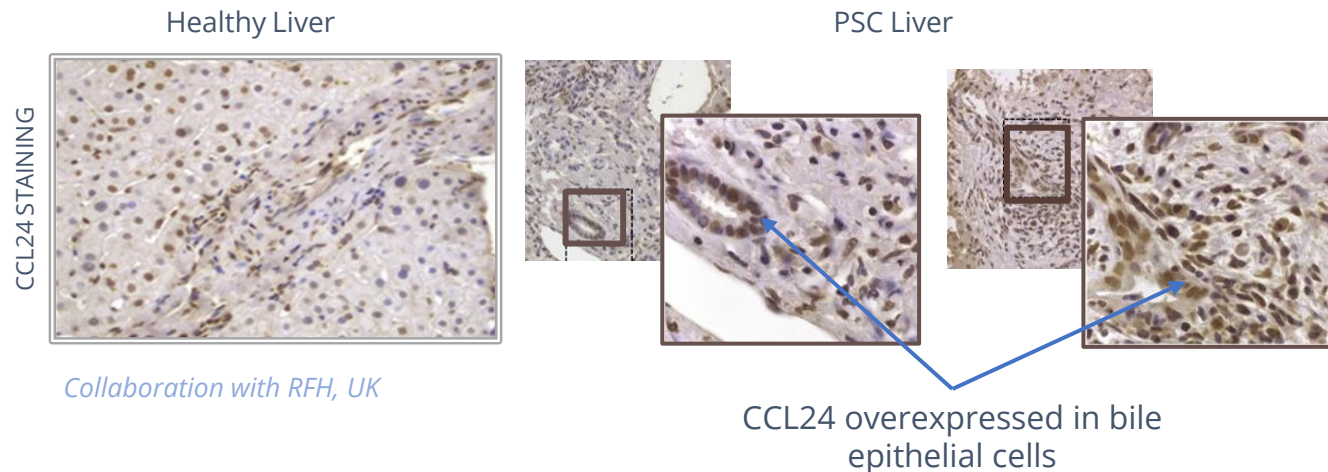
CCL24 Plays a Key Role in PSC

Clinical Relevance of CCL24 in PSC Pathophysiology is Supported by Patient Samples



CCL24 expression is significantly and selectively elevated in PSC livers

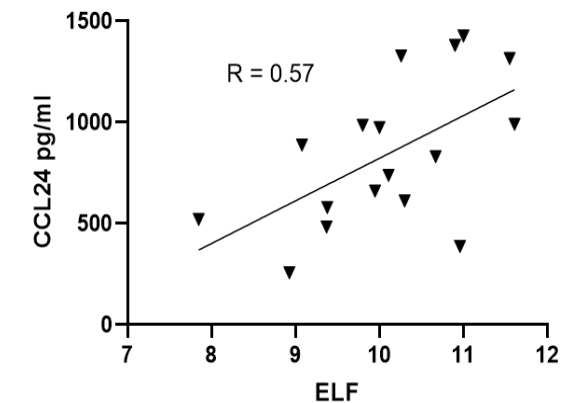
CCL24 level in healthy vs PSC patients' livers tissues



CCL24 correlates with ELF in PSC patients with elevated ALP

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

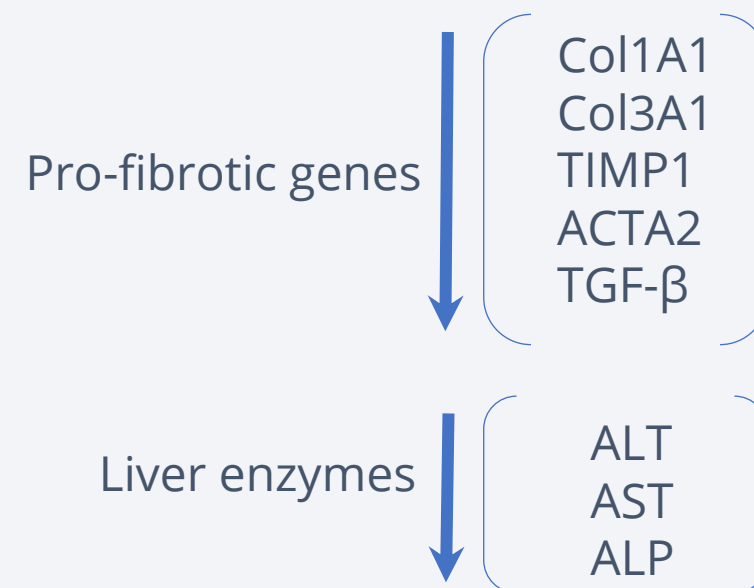
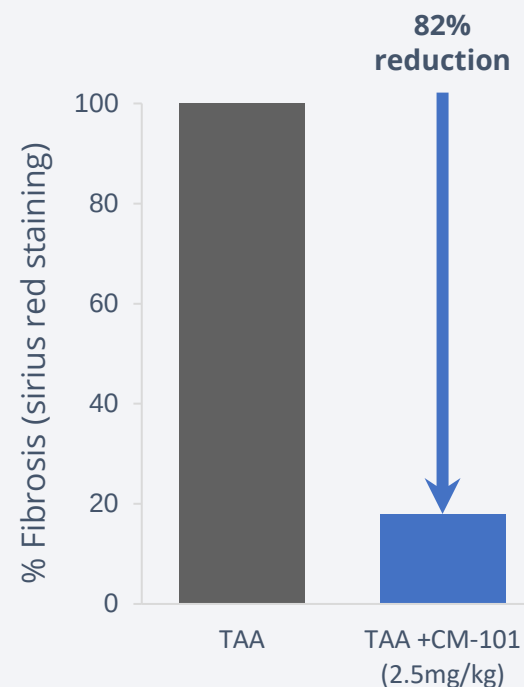
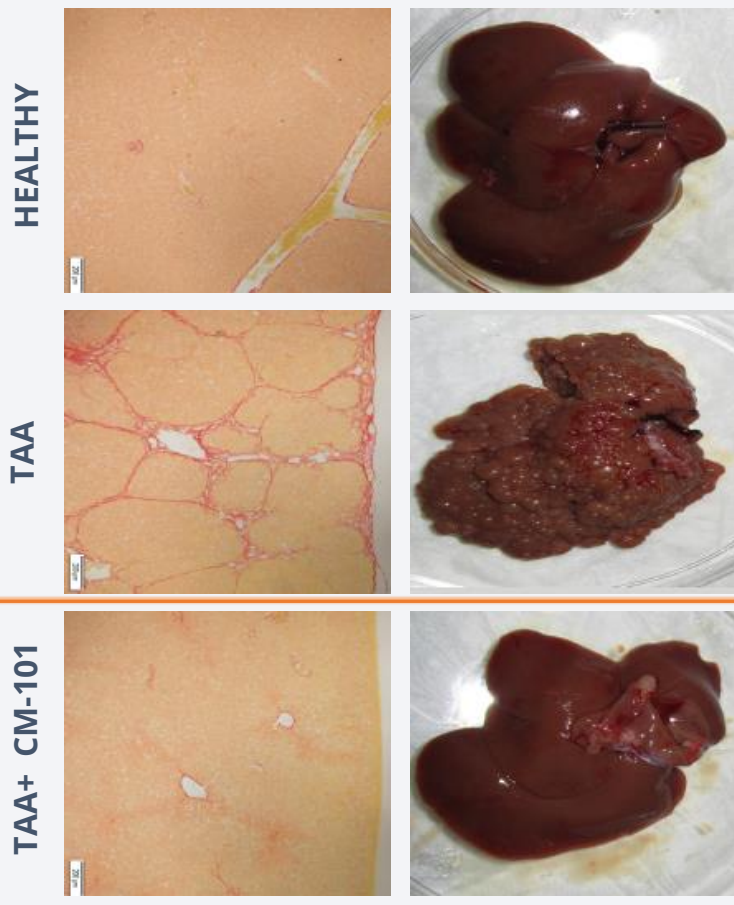
CM-101 MoA guided the selection of ELF and ALP as primary endpoints in Phase II

CM-101 Reduces Liver Fibrosis by 82%

Reduced Liver Collagen in TAA Liver Fibrosis Rat Model Using Therapeutic Design

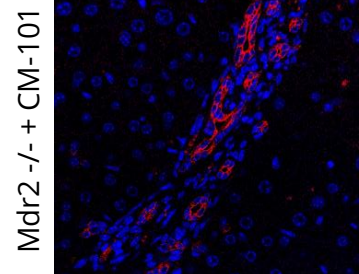
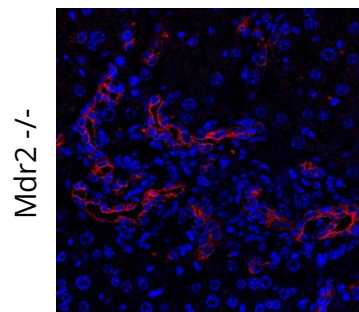


SIRIUS RED (COLLAGEN)



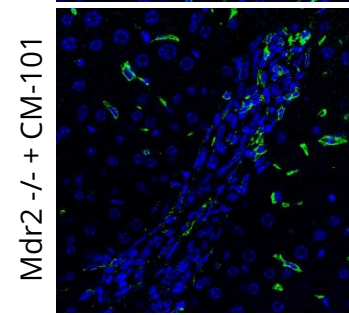
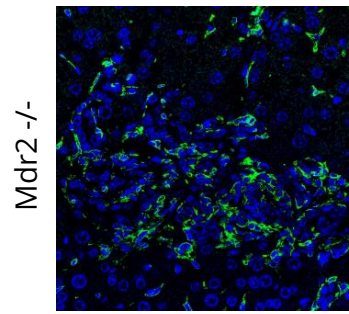
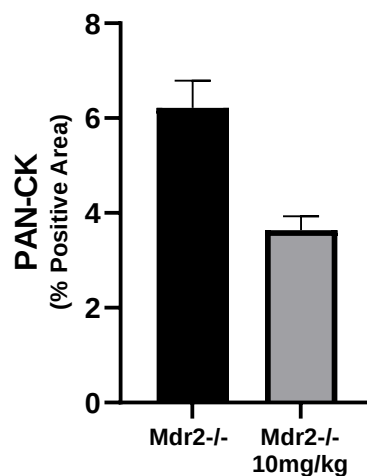
CM-101 Ameliorates Liver Injury and Fibrosis in PSC

Cholestasis, Inflammation and Fibrosis are Reduced in the MDR2 Knockout Model in Mice



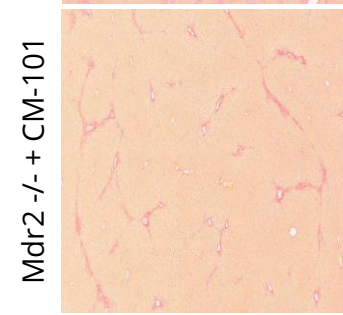
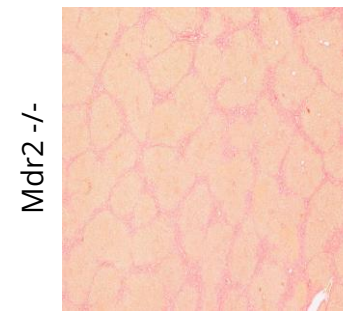
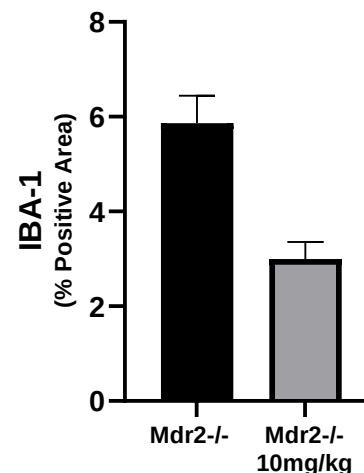
Cholangiocytes
(panck)

Decreased Bile Epithelial Cell Proliferation



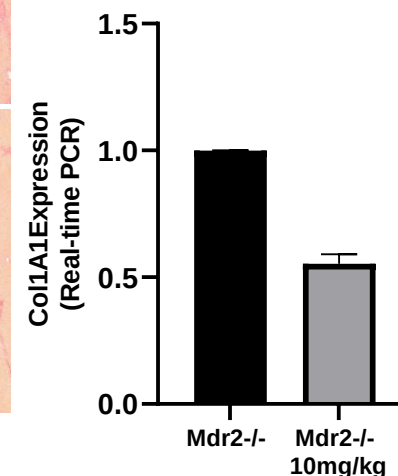
Macrophages (IBA1)

Reduced Macrophage Number



Sirius Red

Attenuated Liver Collagen Deposition



CM-101 interferes with the core pathways that drive PSC

Phase II PSC Study Enrolling Patients

Orphan Drug Designation Granted by FDA and EMA

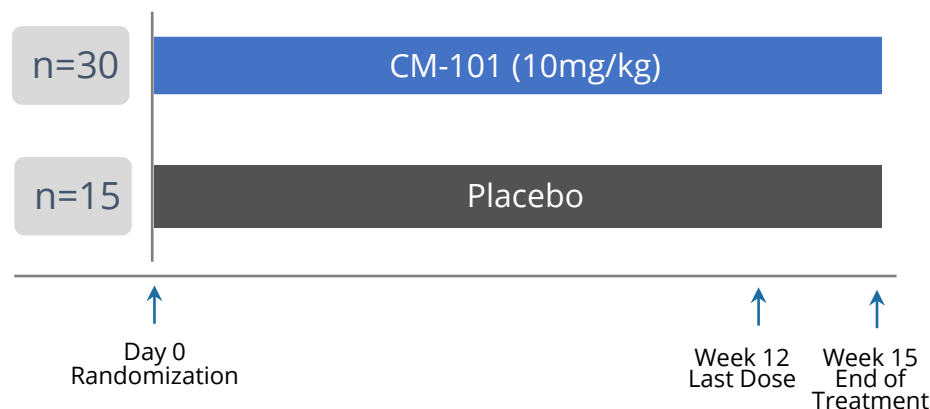


Trial Design

Key inclusion/exclusion criteria

- **Adults with large duct PSC** of more than 24 weeks duration, diagnosed via MRCP/ERCP
- **ALP > 1.5 ULN**
- Stable IBD is allowed
- Stable Ursodeoxycholic Acid (UDCA) treatment is allowed

IV Administrations of CM-101 vs. Placebo; Q3W



Primary endpoints:

- **Serum alkaline phosphatase** Change from baseline to W15
- **ELF score** Change from baseline to W15

Secondary endpoints:

- **Fibrotic biomarkers and liver enzymes (e.g. AST, ALT, Pro-C3, Pro-C5)** Change from baseline to W15
- PK, Anti Drug Antibody
- PD parameters

Topline data expected in 2H2022



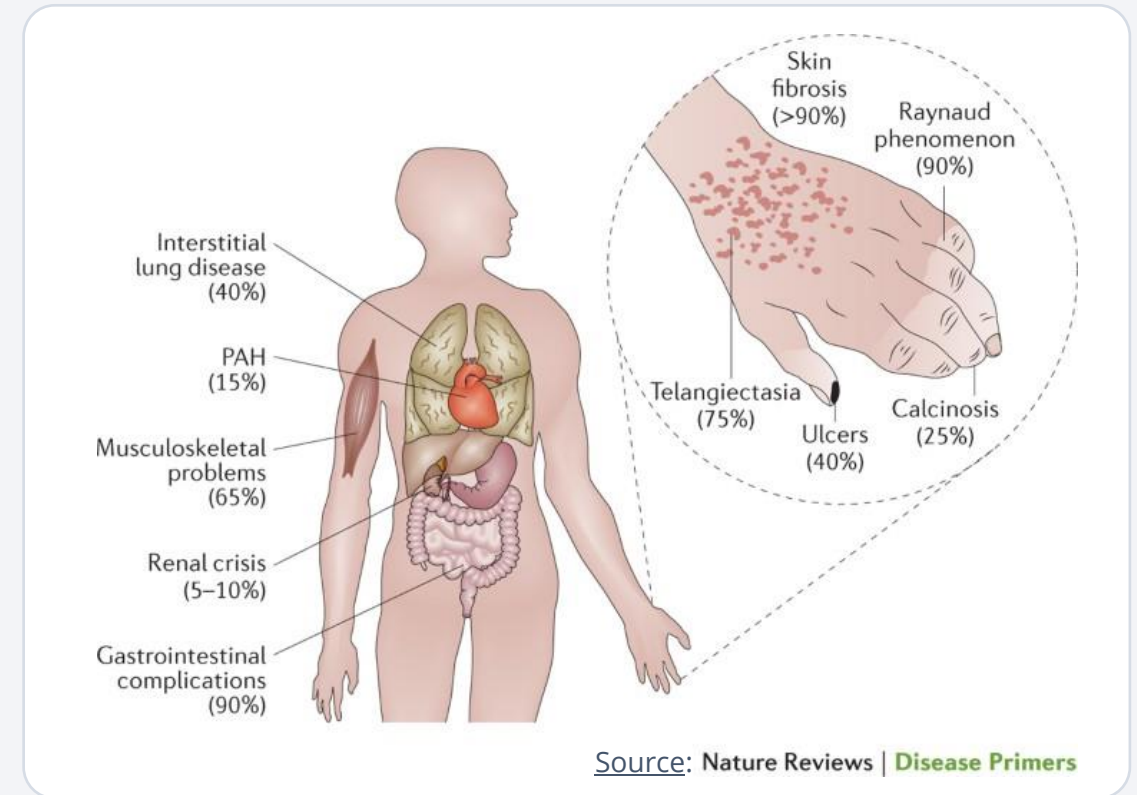
CM-101 for the Treatment of Systemic Sclerosis



Systemic Sclerosis (SSc)

Most Lethal Among Systemic Rheumatic Diseases

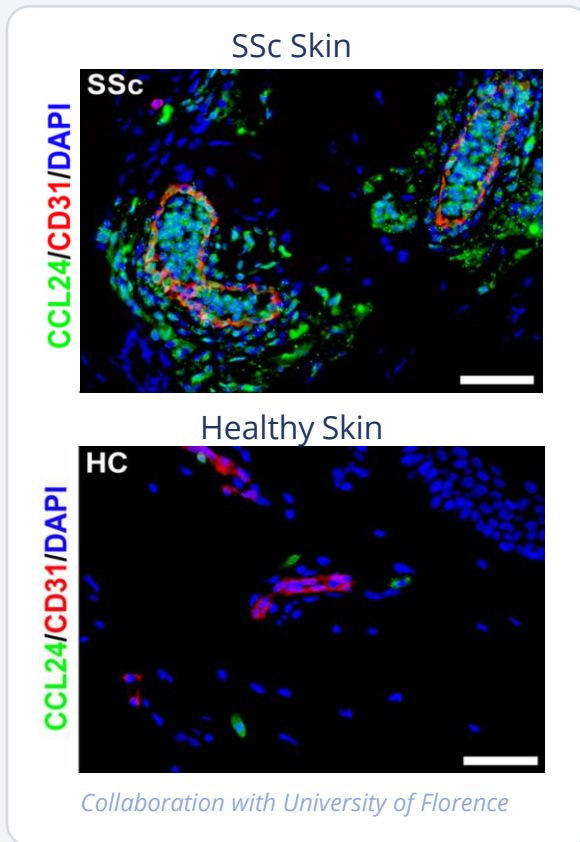
- **Rare** autoimmune rheumatic disease characterized by **inflammation and fibrosis** of the internal organs as well as vasculopathy
- **Age of diagnosis 30-50 years**, Predominantly affects women (3:1 female:male ratio)
- There is **no approved disease modifying drug**; Treatments focus on managing disease symptoms (Nintedanib, Tocilizumab)
- Median Survival of 10 years - the **highest mortality rate among the systemic rheumatic diseases**
- Pulmonary involvement is the leading cause of death
- ~170K patients in 7 major markets



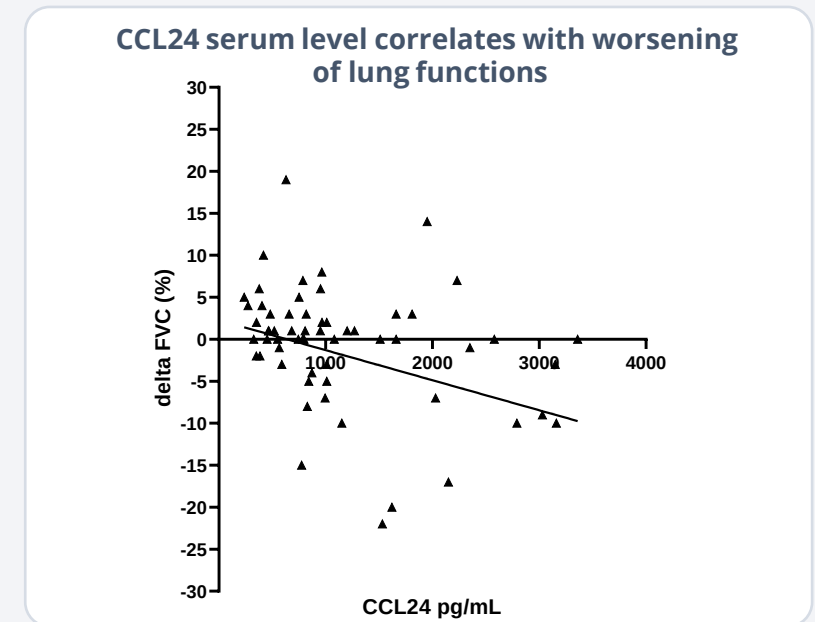
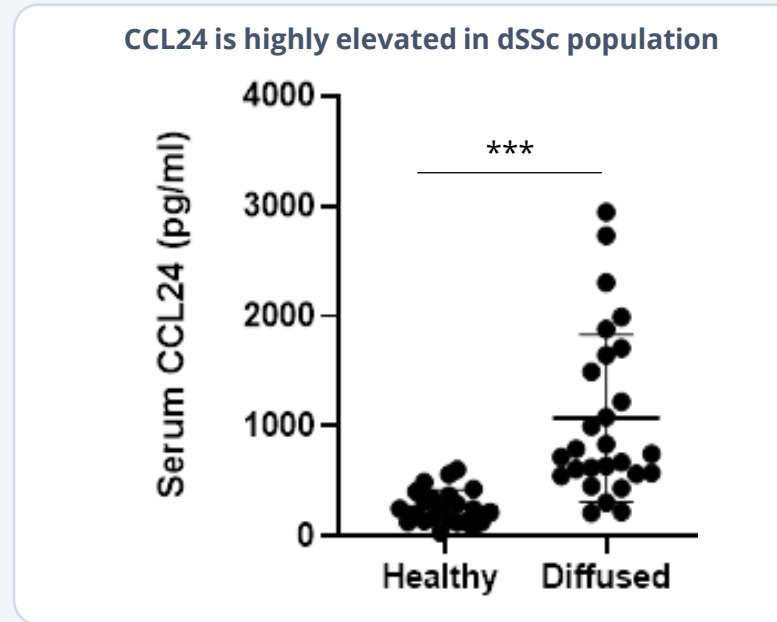
CCL24: A Critical Node Potentiating Systemic Sclerosis (SSc)



Clinical Relevance of CCL24 in SSc Pathophysiology is Supported by Patient Samples



CCL24 overexpressed in skin and serum samples of dSSc Patients compared to healthy
CCL24 correlates with disease progression and fibrotic biomarkers

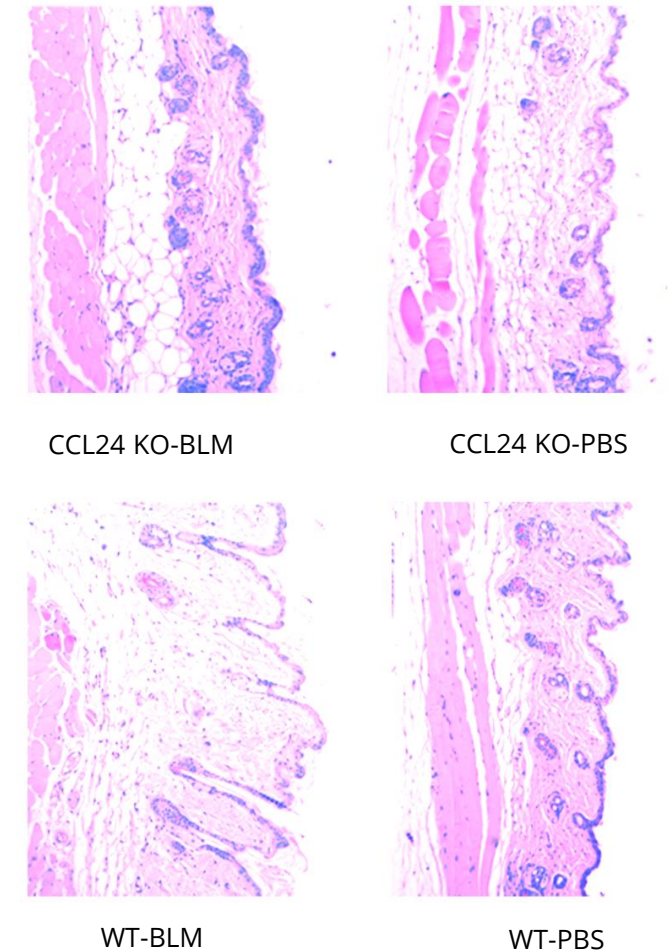
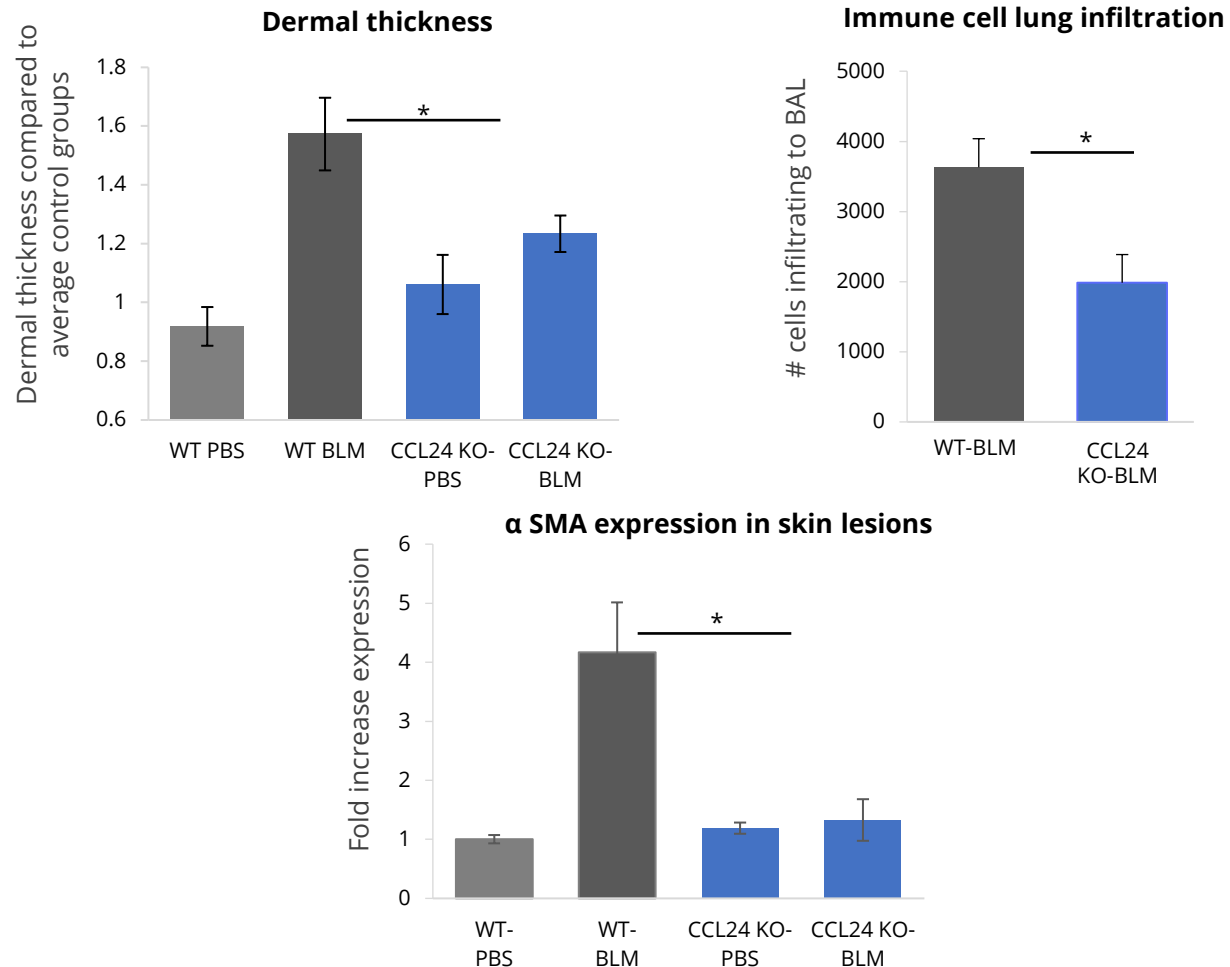


Patient samples support the targeted patient population and clinical trial endpoints

CCL24 Blockade is Singularly Sufficient to Attenuate Fibrosis



Knocking Out the CCL24 Gene Attenuates Inflammation and Fibrosis in SSc Bleomycin Experimental Model



Mor A et al., Annals of Rheumatic Diseases, 2019

BLM – Bleomycin; WT - Wild type; KO – Knockout, BAL- Bronchoalveolar lavage, PBS- Phosphate-buffered saline

*p ≤ 0.05

CM-101 Profoundly Reduces Skin and Lung Fibrosis in SSc

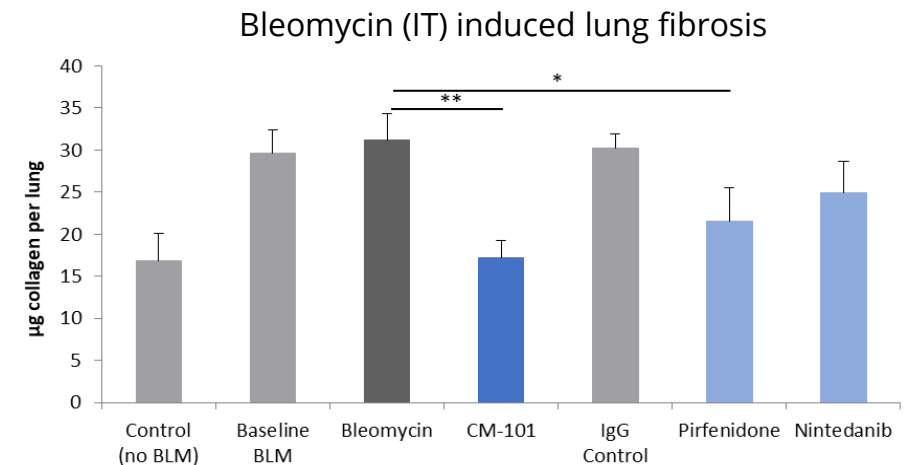
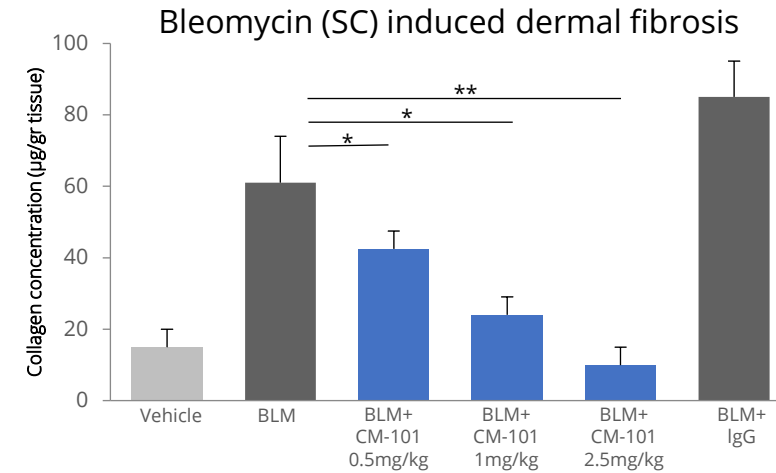
Experimental Models Relevant to Systemic Sclerosis Using Prevention and Therapeutic Designs



Attenuates skin and lung fibrosis levels in bleomycin induced models using treatment mode

Demonstrates a **dose dependent attenuation of fibrosis**

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



Mor et al, Annals of Rheumatoid Diseases, 2019

**p ≤ 0.01; *p ≤ 0.05.

BLM - bleomycin; IT - Intratracheal; SC - Subcutaneous

IgG - Immunoglobulin G

CM-101 Clinical Development Plan and Key Catalysts



Will be Advancing in Parallel Three Phase II Clinical Programs

	Status	2021	2022	2023
Primary Sclerosing Cholangitis	Enrolling Top line data expected in 2H2022	Phase II: 15wk treatment *Randomized placebo-controlled; <i>Europe and Israel study sites</i>		
Systemic Sclerosis	Initiation expected in 1Q2022		Phase II: 24-48 wk treatment Randomized placebo-controlled; <i>US & Europe study sites</i>	
Liver Fibrosis Proof of MoA using SC formulation	Enrolling Top line data expected in 1H2022	Phase IIa: 14 wk treatment Randomized placebo-controlled; <i>Israel study sites</i>		

SC – Subcutaneous, MoA- Mechanism of Action

*[NCT04595825](https://clinicaltrials.gov/ct2/show/study/NCT04595825)

Investment Summary

Pioneering Innovative Treatment for Fibrosis-Related Diseases with High Unmet Need



Chemomab

- **Clinical stage company advancing PhII trials in multiple fibrotic indications with high unmet need**
- **Substantial near term value inflection points**
- **Strong leadership with proven track record**

CM-101

- First-in-class mAb blocking CCL24
- Novel and differentiated dual anti-fibrotic and anti-inflammatory MoA
- SC and IV formulations available; well established manufacturing process
- Strong IP protection

Efficacy

- First anti-fibrotic evidence in patients
- Significant anti-fibrotic effects across multiple in vivo, ex vivo and in vitro models

Safety

- Favorable safety and tolerability that support chronic treatment based on toxicology, Phase Ia and Phase Ib clinical trials

PK & Mode of Administration

- Optimal PK for both SC and IV formulations
- Comparable exposure levels and target engagement using both formulations

Thank You

