

CBI Fibrosis Models in Mice

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COMPARATIVE BIOSCIENCES, INC.

Premier Preclinical Contract Research Organization

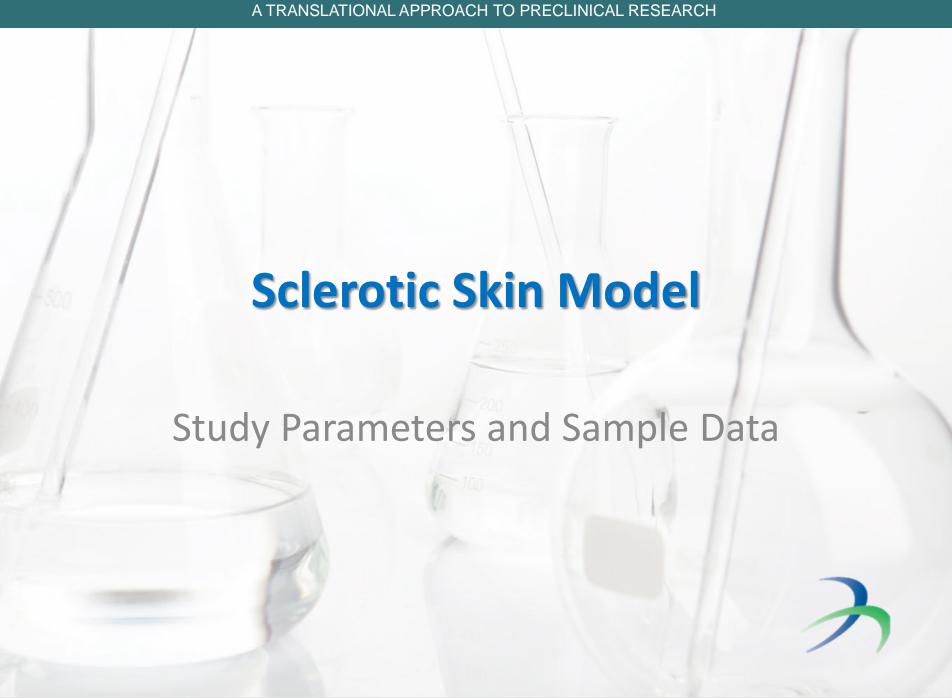
- Nearly 20 years of experience
- Conveniently located in the heart of Silicon Valley, amidst many biotech companies
- State of the art, purpose-built facility
- Approximately 30 employees
- Highly experienced staff
- GLP, OECD, FDA, USDA, OLAW
- AAALAC Accreditation

Murine Fibrosis Models

- Sclerotic Skin (Scleroderma)
 - Local Repeated Injection of Bleomycin

- Pulmonary Fibrosis
 - Continuous SC Infusion of Bleomycin by Osmotic Pump



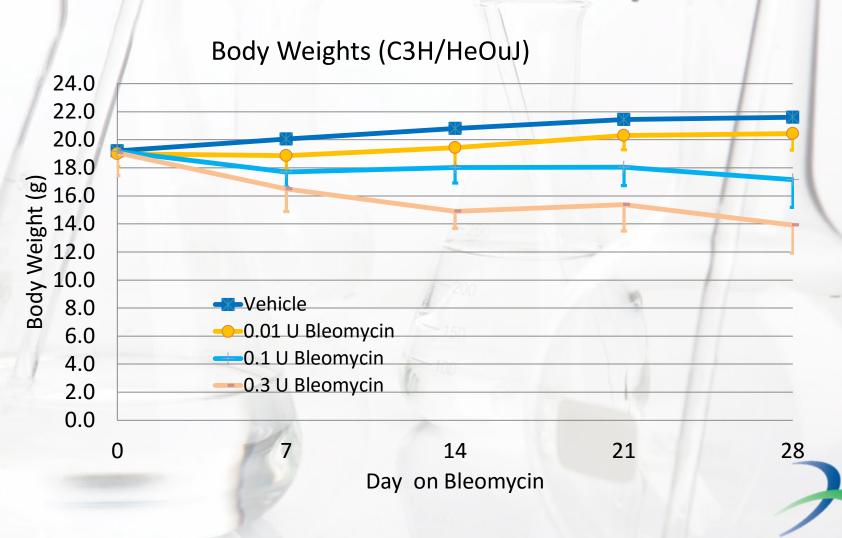


Sclerotic Skin Model: Typical Parameters

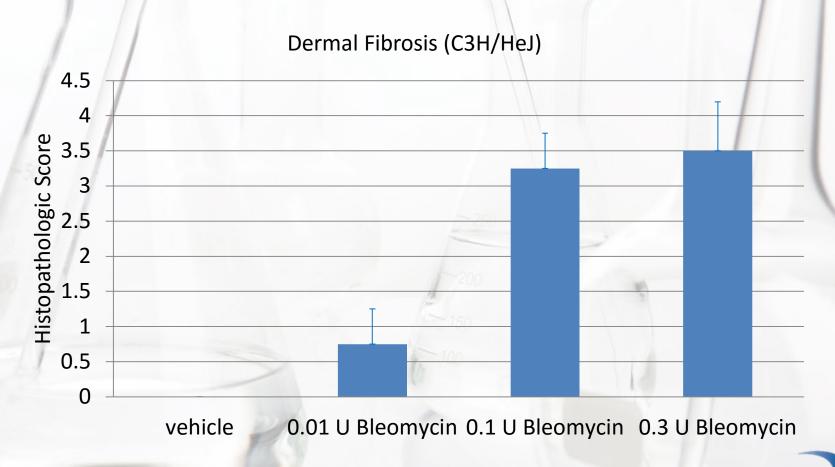
- C3H females at 7 weeks of age
- Local SC injection of bleomycin daily for 30 days
- Test article administration per sponsor
- Clinical observation daily
- Weekly body weights
- Necropsy and histopathology



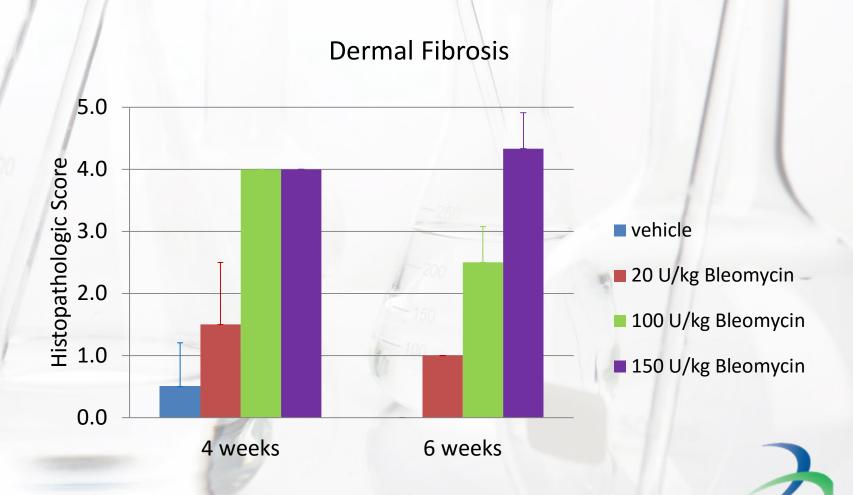
Sclerotic Skin Model: Sample Data



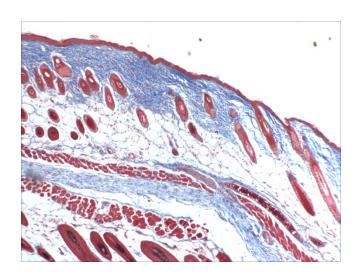
Sclerotic Skin Model: Sample Data



Sclerotic Skin Model: Sample Data

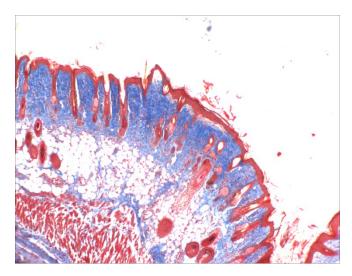


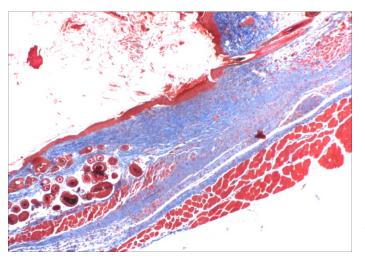
Sclerotic Skin Model: Histopathology



Left: Trichrome of normal mouse skin, demonstrating low amount of collagen in superficial dermis (blue)

Bottom: Bleomycin-treated mouse skin demonstrating large amount of collagen deposition and fibrosis in superficial and deep dermis (blue)







Pulmonary Fibrosis Model

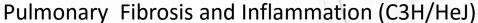
Study Parameters and Sample Data

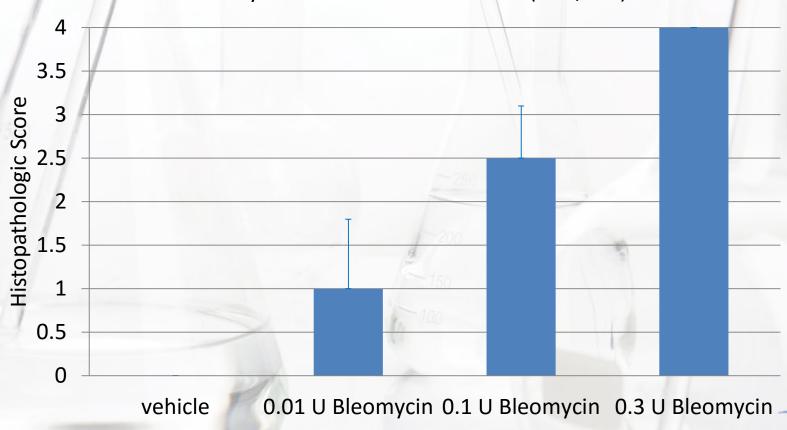


Pulmonary Fibrosis: Typical Parameters

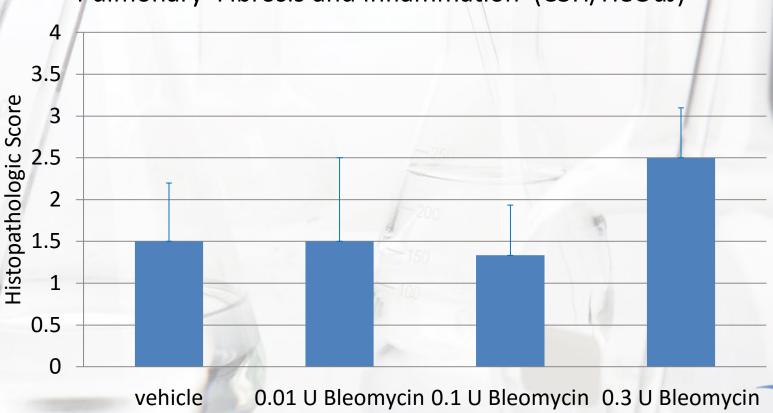
- C57BL/6 females at 7 weeks of age
- Surgical implantation of osmotic pump with 7 day constant infusion of bleomycin
- Clinical observation daily
- Body weights weekly
- Necropsy and histopathology



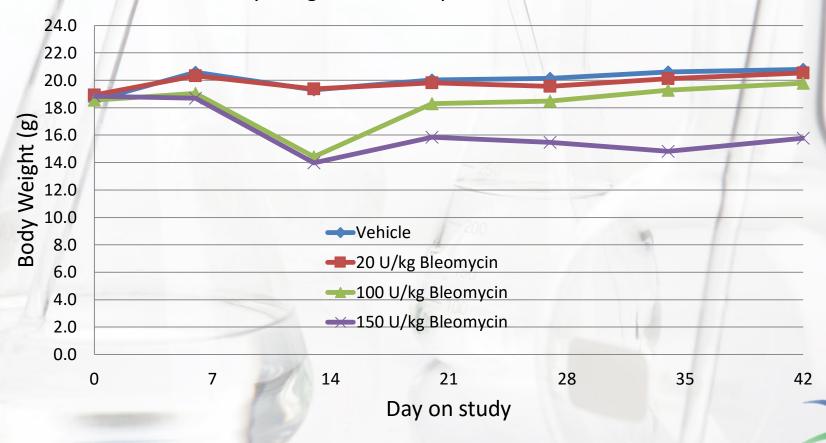




Pulmonary Fibrosis and Inflammation (C3H/HeOuJ)



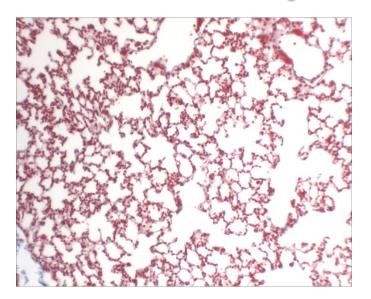




Pulmonary Fibrosis and Inflammation

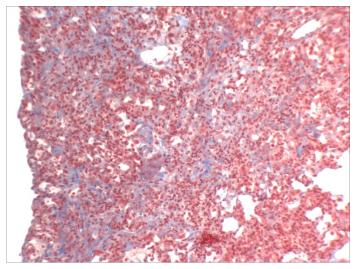


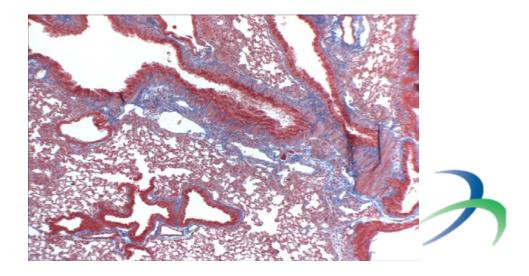
Pulmonary Fibrosis: Histopathology



Left: Trichrome of normal mouse lung, demonstrating little or no collagen (blue)

Bottom: Bleomycin-treated mouse lung demonstrating large amount s of collagen deposition and fibrosis in pulmonary parenchyma and around air ways





Service and Quality

- Thoroughness in planning and execution is key to a successful study. All protocols are vetted and approved by multiple personnel. Our QAU has a rigorous training program. All non-GLP studies are conducted in the spirit of GLP.
- We believe in sound science. Our ratio of scientists to nonscientists is one of the highest in the industry. Every study director is a PhD-level scientist.
- We believe in communication. Timely responses to your inquiries and frequent updates on your study are mandatory.
- We welcome visitors. You are always welcome at CBI to meet the staff, tour the laboratory and discuss the progress and results of your study.