Center for Fibrosis Research and Translation (CFRT)

Fibrosis

- Inflammatory & Epigenetic Cues
- Organ Regeneration
- Standardized Experimental Methods
- Nodal Pathways
- Novel Therapies
- Cardiac
- Renal
- Pulmonary
- Hepatic
Why Fibrosis?

• Contributes to ~45% of Deaths in Western World

• 2 FDA-Approved Drugs – Poor Efficacy
  -Major Unmet Need

• >300 Companies Worldwide Targeting Fibrosis

• Significant Strength at the AMC, but Not Unified
CFRT: Concept

- Highly Collaborative
- Team Approach
- Basic and Clinician-Scientists
  - Innovative
  - Nimble
  - Transparent
  - Data Driven
- Focused on Improving Human Health

Internationally Recognized Center of Excellence
CFRT: Structure

1. Pre-Clinical Discovery Group
   - Cardiovascular Fibrosis
   - Renal Fibrosis
   - Pulmonary Fibrosis
   - Hepatic Fibrosis

2. Fibrosis Innovation Group (FIG)
   - Project Team Leader
   - Prioritized Projects
   - Multidisciplinary Review Committee
   - Team Grants
   - Pilot Grants
   - High Throughput Biology Unit
   - Cell-Based Disease Modeling Unit
   - In Vivo Disease Modeling Unit
   - Fibrosis Quantification Unit
   - Computational Biology Unit

3. Clinical Discovery Group
   - Renal Translation
   - Lung Translation
   - GI Translation
   - Cardiovascular Translation
   - Surgery

4. Clinical Efficacy
   - Phase IIa Proof-of-Concept (POC) Trials; Performed at the AMC
   - Phase IIb/III Efficacy Trials; Multi-Center; Governed by Colorado CPC Clinical Research
CFRT: External Funding Opportunities

1. Pre-Clinical Discovery Group
2. Clinical Discovery Group
3. Fibrosis Innovation Group (FIG)
4. Clinical Efficacy

- Industry Sponsorship
- Multi-Investigator Grants & Programs
- Philanthropy
CFRT: Other Unique Components

- Scientific Advisory Board (Internal & External)
- Fibrosis Fellows Program; External Applicants
- Graduate Student Awards
- Fibrosis Seminar Series
- CFRT Retreat
CFRT: Recruitment

• 3 Faculty
  - “Traditional”
  - Excellence in Fibrosis Research
  - High Energy; Collaborative

• 1 FIG Director
  - Biotech Background
  - Project Management
  - Industry Liaison
CFRT: 5-Year Goals

• New Internal Collaborations
  -Enhanced Extramural Funding
  -NIH P50 Specialized Center Grant

• Unique Industry Partnerships & Philanthropy
  -Sponsored Research Agreements and Alliances

• Exciting and Productive Training Environment
  -High Energy and Passion

• At Least 1 Novel, Nodal Effector of Fibrosis
  -Phase Ila Proof-of-Concept in Humans