

# **Programmatic Research**

## ***Beginning a Discussion***

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# Programmatic Research

- **What is it?**
- **Why is it needed?**
- **Examples**
- **Discussion focused on developing an initiative to promote and support programmatic research**

# **Programmatic Research**

**[whole is greater than the sum of the parts]**

- **Research that addresses a basic or clinical unmet need**
- **Overarching hypothesis that makes a difference**
- **Interdisciplinary and interactive research that includes projects and cores**
- **Other stuff: career development, training, outreach, etc.**

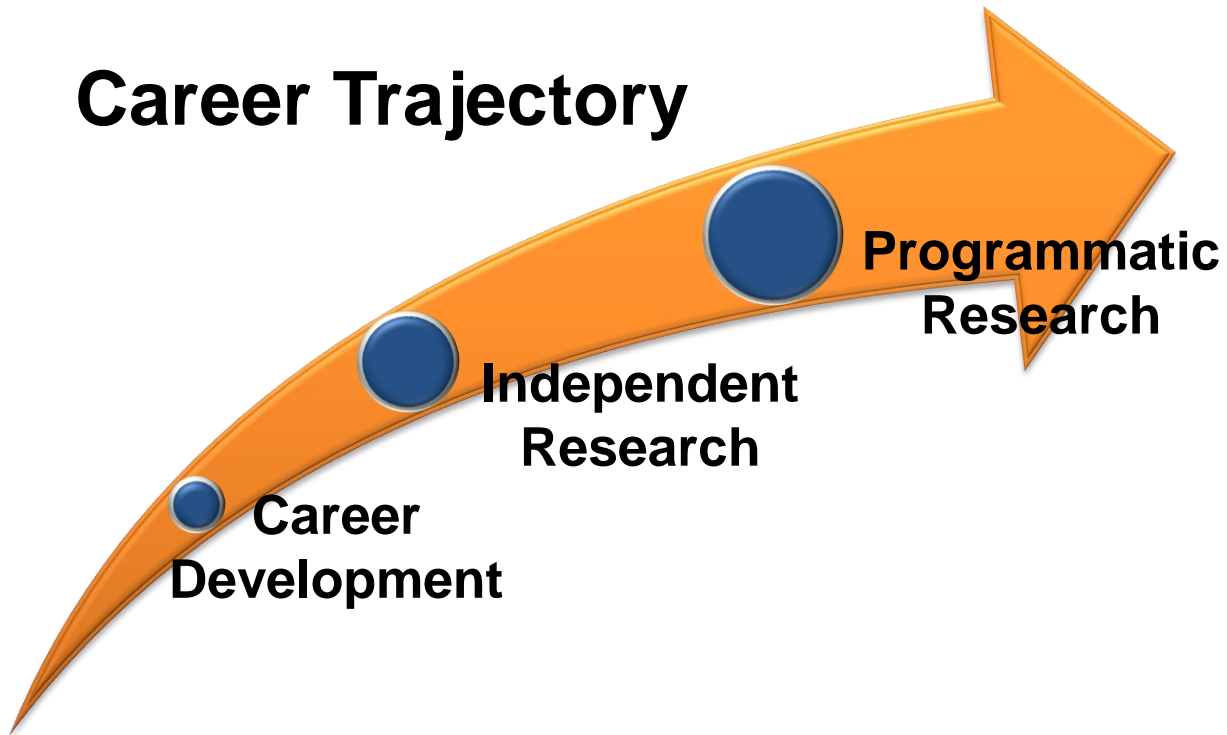
# **Programmatic Research**

**[whole is greater than the sum of the parts]**

- **Top-down: identify broad-based research themes that impact human health and disease**
- **Bottom-up: collaborative, programmatic interdisciplinary research**

# Why is it needed?

## Career Trajectory



- Hubs of interdisciplinary research and team science
- Career enriching opportunities for trainees and young faculty
- Ask and answer the big questions

# Practical Reason to Support Programmatic Research

Medical Schools	P01s
1. UCSF	11
2. Stanford	8
3. Washington U	9
4. Johns Hopkins	8
5. Pennsylvania	14
6. Pittsburgh	6
7. Yale	6
8. Columbia	8
9. Duke	7
10. UCLA	7
11. Vanderbilt	5

Medical Schools	P01s
12. UCSD	5
13. Emory	5
14. Michigan	4
15. Mt Sinai	8
16. Northwestern	7
17. Washington	7
18. NYU	8
19. <b>UNC</b>	0
20. Baylor	7
21. Minnesota	6
22. Case Western	3

**13→19**

**CU SOM: 23<sup>rd</sup> NIH Rank, 3 P01s**

# **Benefits of Programmatic Research**

**[whole is greater than the sum of the parts]**

- **Scientific Impact: more than you could do on your own**
- **Career development and training**
- **Community, comradery, and fun**
- **Recruitment of new trainees and faculty to strengthen the research mission**

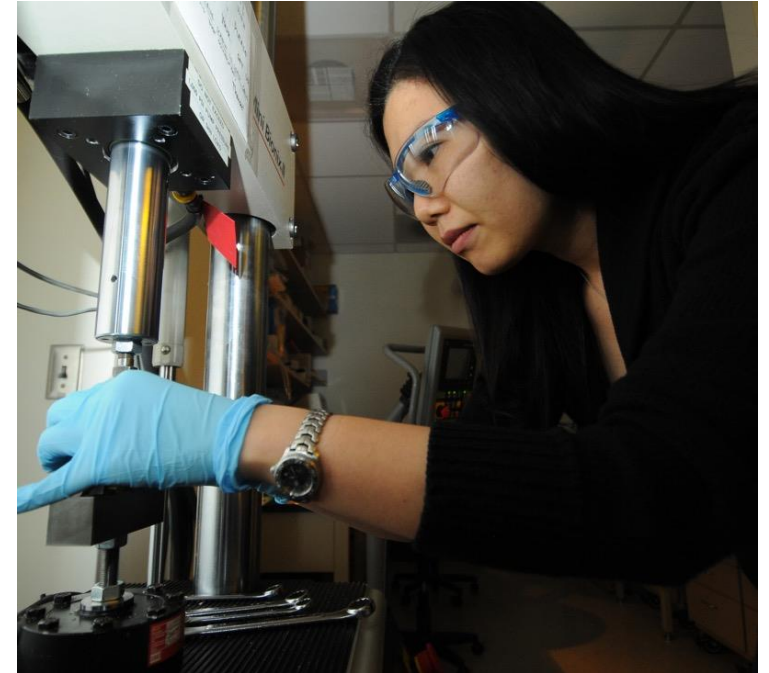
# Institutional Support

- ASPIRE
- AB Nexus



# ASPIRE – an incubator for programmatic research

- Goal: increase success of programmatic research on AMC
- Supports milestone-driven collaborations between investigators to solve unmet needs in basic science and clinical medicine
- *Mentored program* – meet quarterly with leadership of ASPIRE Program to plan and develop PPG application
- Awards up to \$100,000/year for 2 years
- Supported by SOM, Chancellor's Office, and Cancer Center



# ABNEXUS

*Est 2020 (3 Year Pilot; ~75K-125K per award)*

## Mission

Expanding research collaborations between the University of Colorado Anschutz and Boulder campuses, to generate knowledge that improves human well-being and spurs innovation and economic development.

## Goals

Elevate reputation through cross-campus research efforts

Remove existing barriers in administrative processes and promote connectivity

Catalyze researchers to accelerate and enhance interdisciplinary collaborations

Drive research and innovation to enhance opportunities and competitiveness of extramural funding



**\$3.5M**

in AB Nexus seed funding distributed



**Thought Leadership and Innovation**

research teams awarded grants



**48**

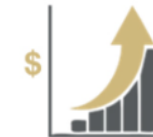


**Improved Human Well-Being**

external funding awarded to AB Nexus teams



**\$21.8M**



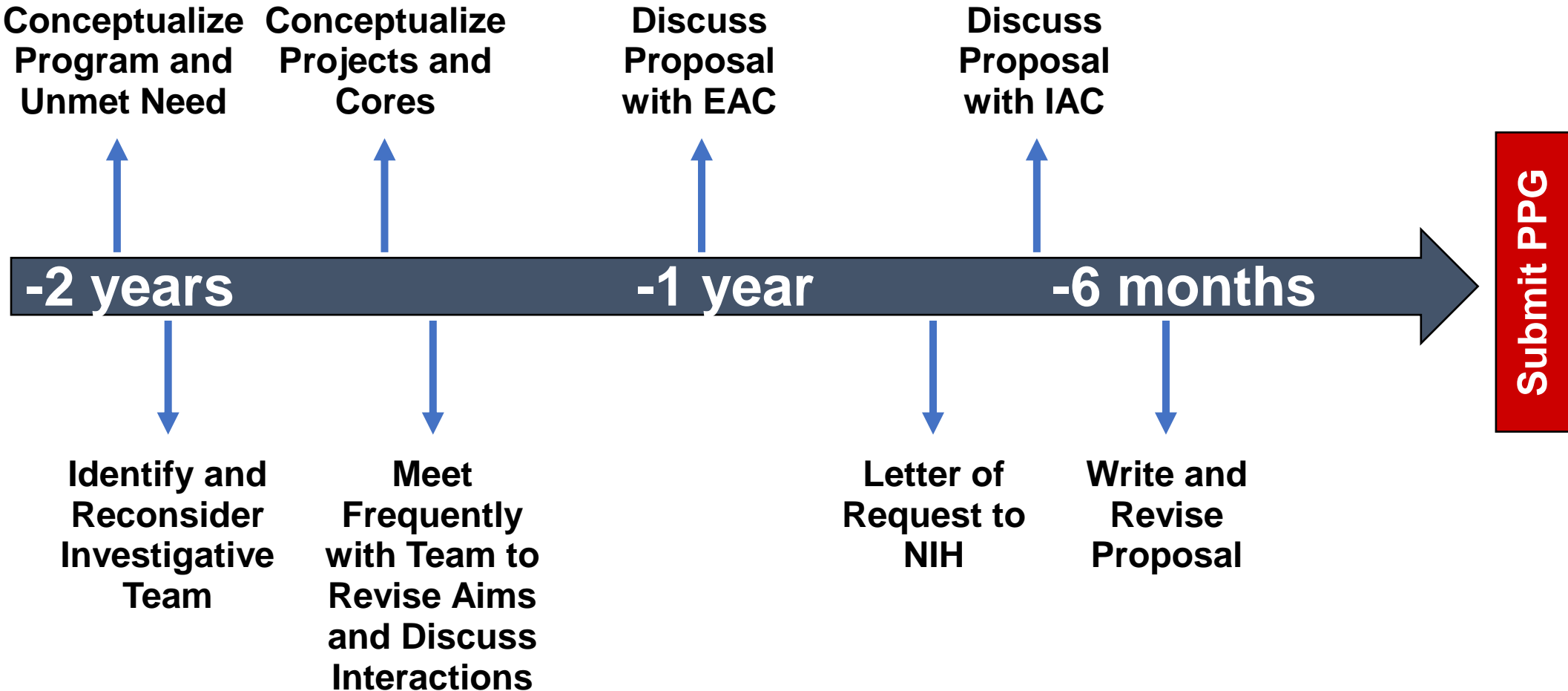
**Economic Development**



**50+**

peer-reviewed research publications

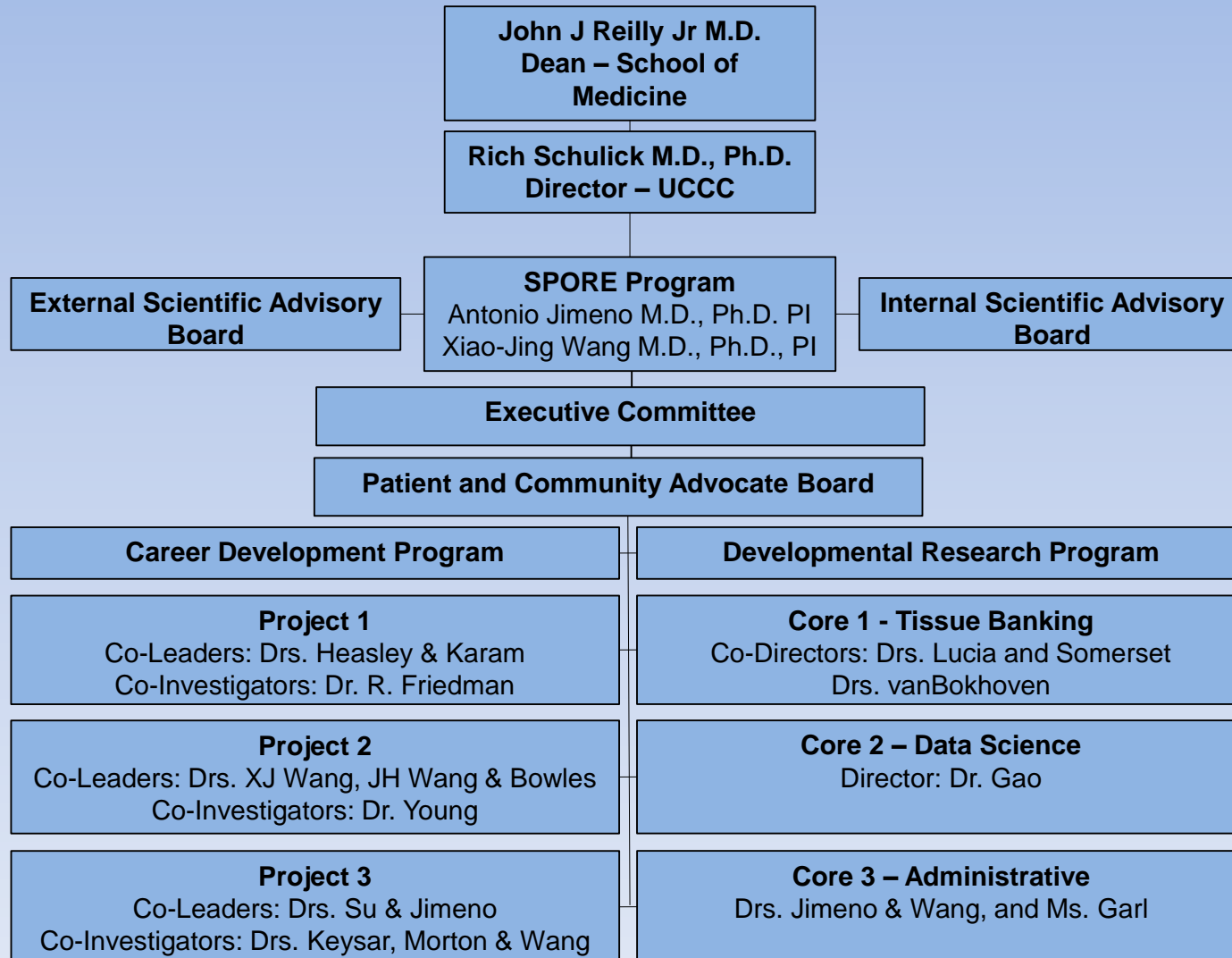
# Timeline



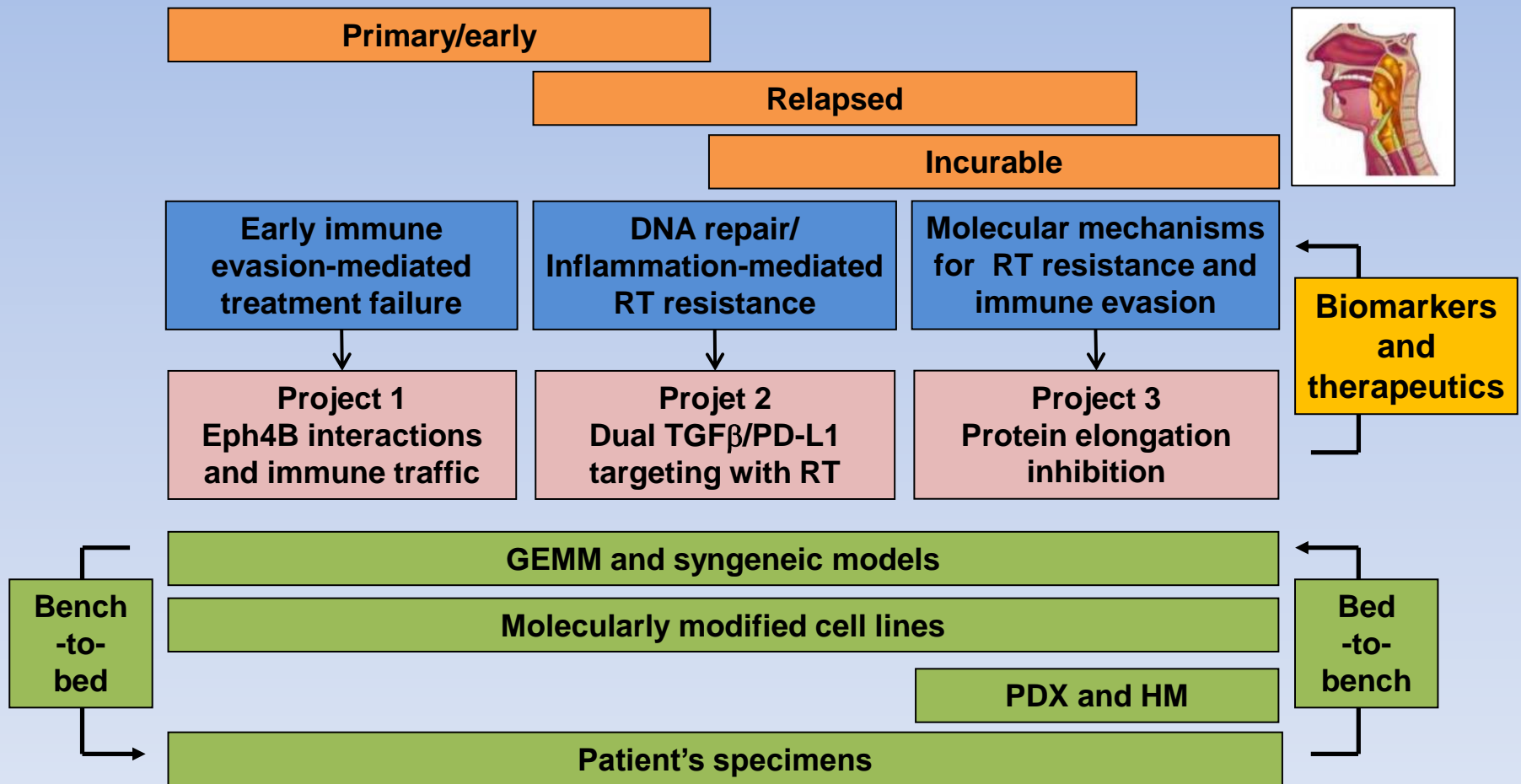
# Programs need strong leadership

- Someone who can herd cats (people skills)
- Who has the bandwidth and energy
- Is willing to make tough choices (i.e. dropping a project)
- Who has vision, smarts and innovativeness
- Who has the track record and reputation

# CO HNC SPORE Organization Chart



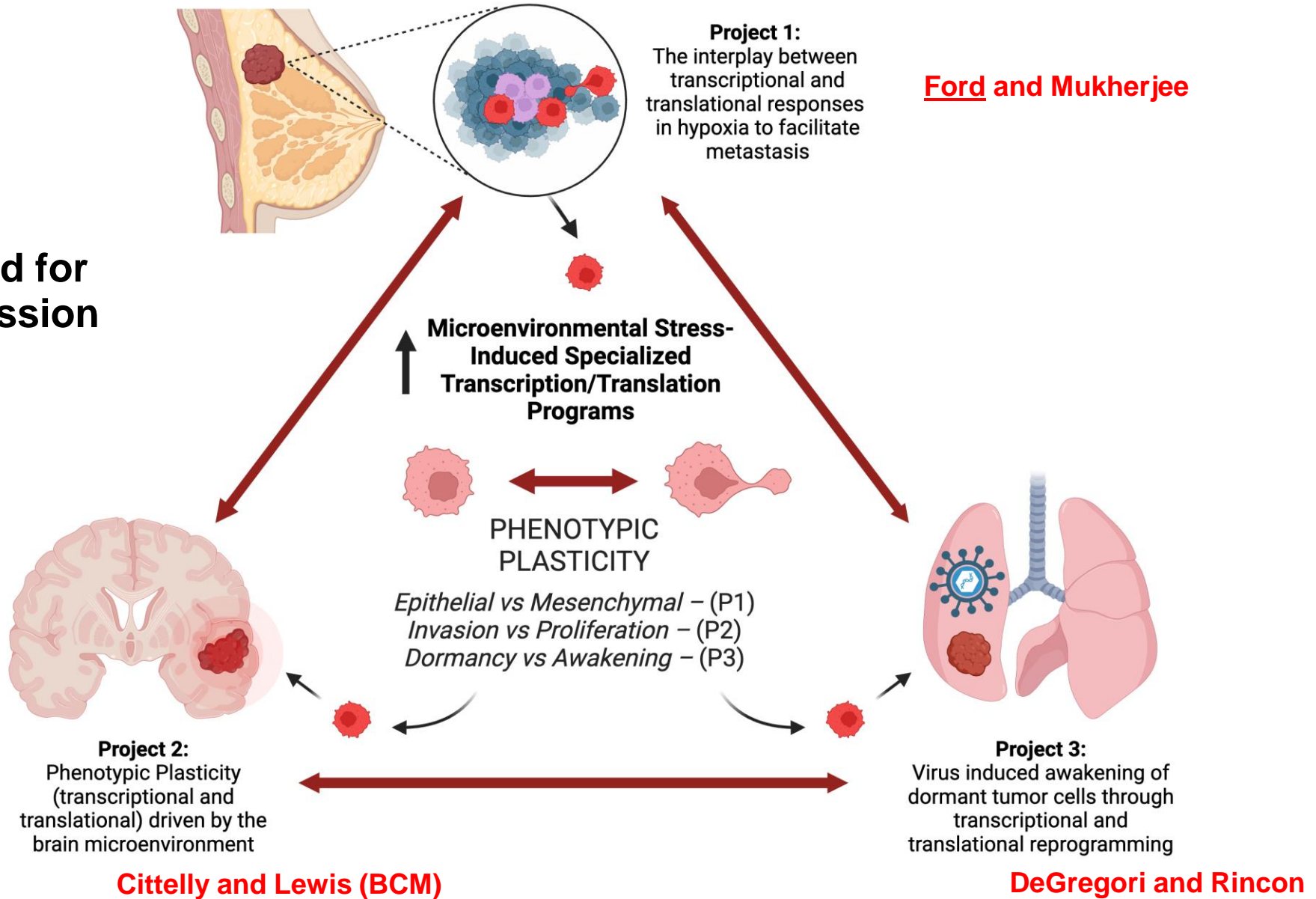
# Thematic strategy of CO HNC SPORE



■ Patient population 
 ■ Theme 
 ■ Project focus 
 ■ Models/Resources 
 ■ Translational endpoints

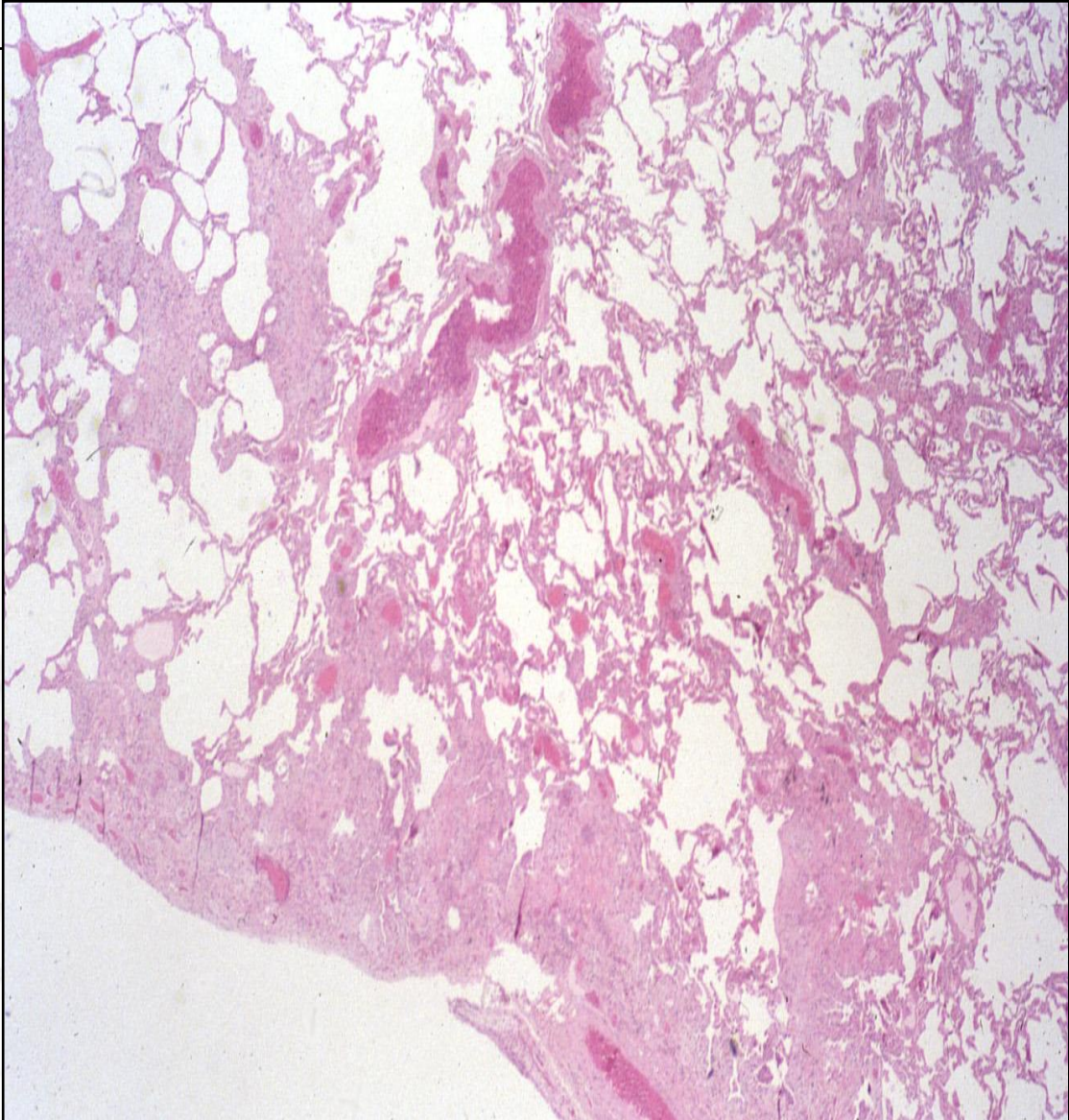
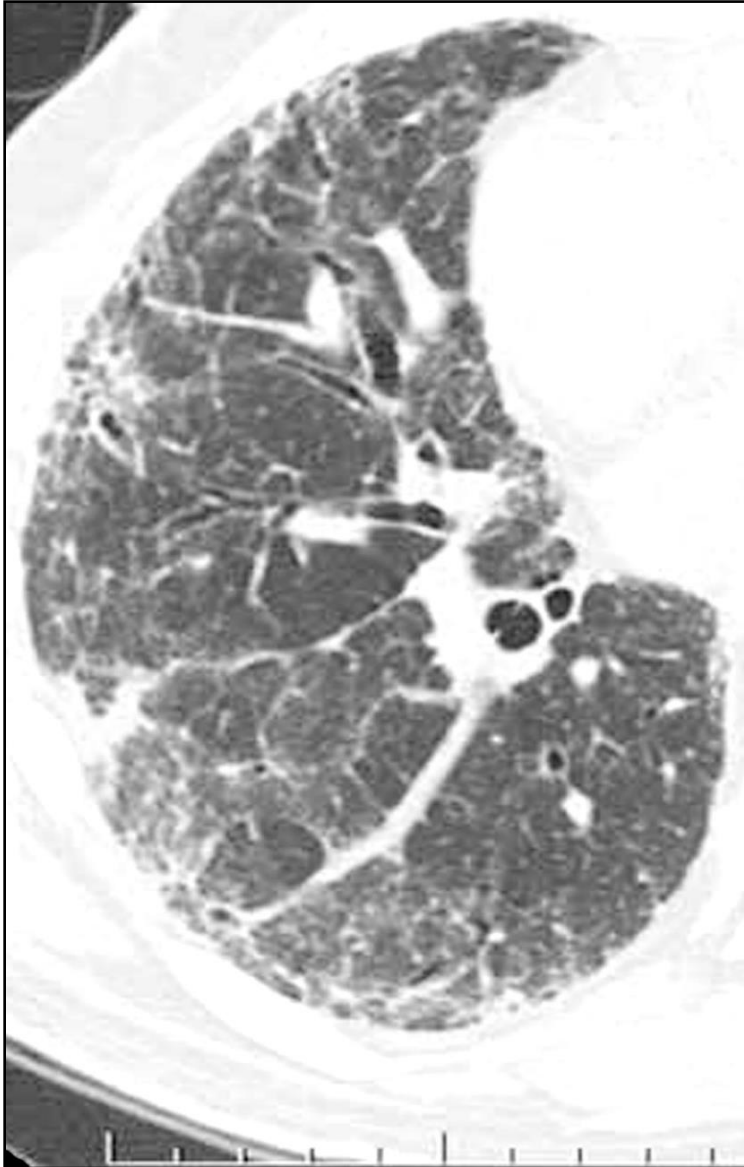
# Uncovering Mechanisms of Tumor Cell Plasticity and Metastasis

P01 planned for 2024 submission



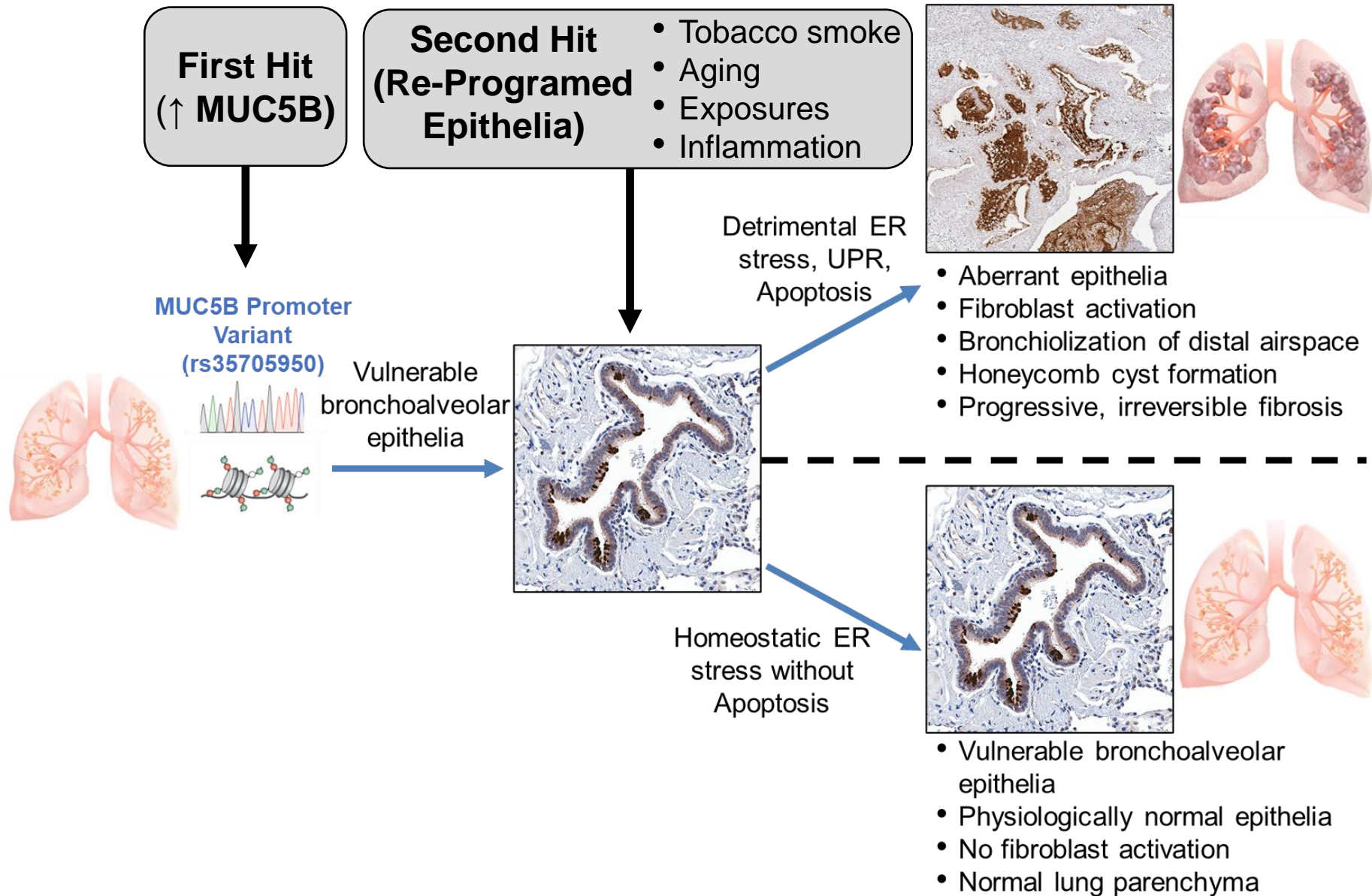


# Idiopathic Pulmonary Fibrosis (IPF)

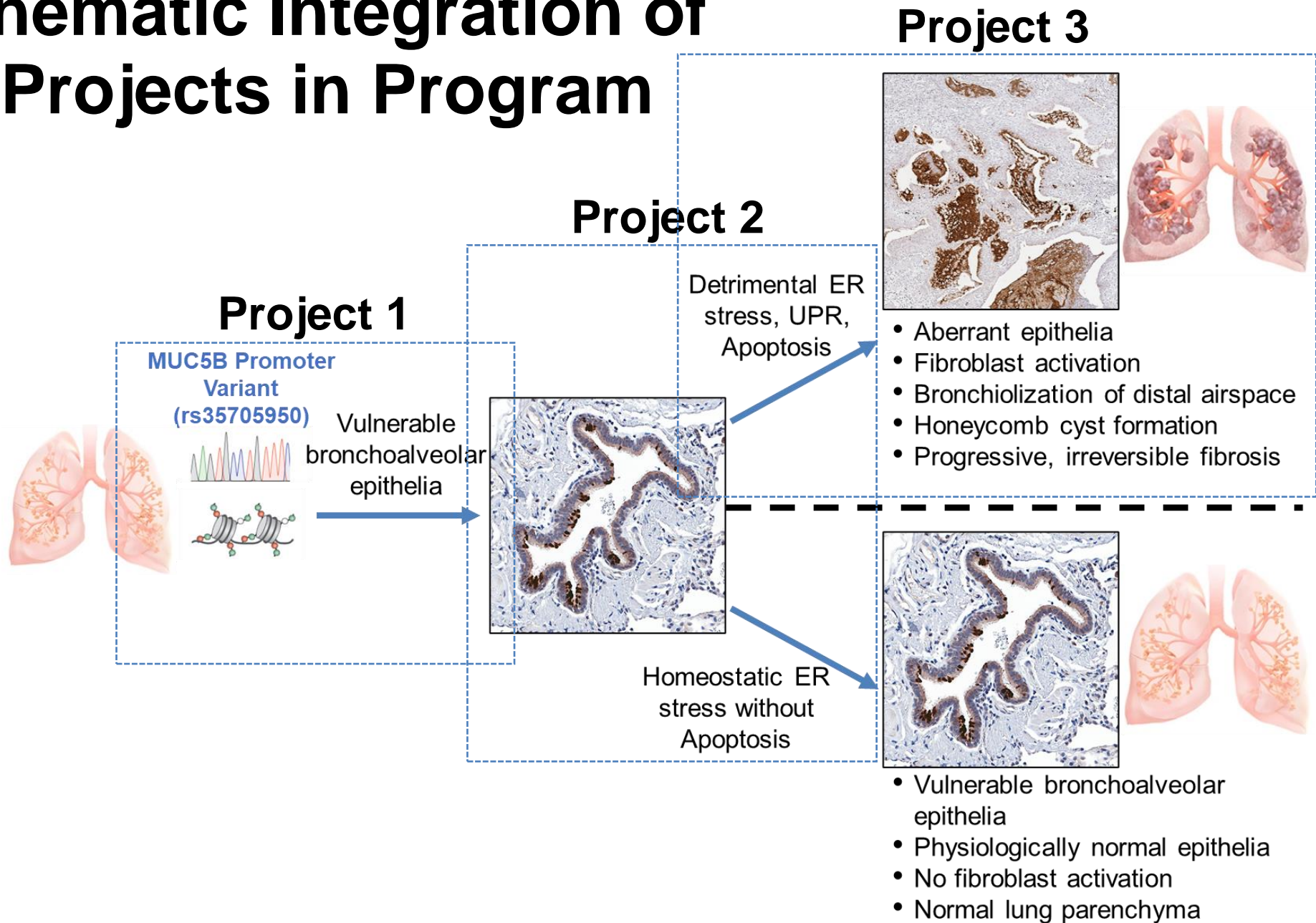




# Overall Theme of Program



# Thematic Integration of Projects in Program



# Topics for Discussion

- **Infrastructure needs**
  - ❑ **Scientists**
  - ❑ **Administrative Support**
  - ❑ **Financial Support**
- **Education**
  - ❑ **Mentorship**
  - ❑ **Seminar Series including NIH**
  - ❑ **Successful Examples**
- **Culture**
  - ❑ **Align incentives**