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Key questions defining research program:

- What are the molecular mechanisms driving right heart failure in pulmonary hypertension?
- What is the role of the protein NHERF1 in pulmonary hypertension?
- Can heart-specific therapeutic strategies be developed to stop and/or reverse right heart failure in pulmonary hypertension?
- Will targeting right heart failure therapeutically prolong survival in pulmonary hypertension patients?
- Is NHERF1 a viable target for novel pulmonary hypertension therapies?

Key words describing research program:

- Pulmonary hypertension
- Right heart failure
- NHERF1
- Cell signaling
- Cardiomyocyte

Titles for shovel-ready research projects:

- The role of NHERF1 signaling in cardiomyocyte hypertrophic responses
- The role of NHERF1 in cardiac fibroblast activation under various stimuli
- The role of NHERF1 in pulmonary vascular cells in pulmonary hypertension

Data sources for shovel-ready research projects:

- Imaging, immunofluorescence, and histochemical tools
- Cell culture, Western blotting, and PCR
- Biochemical assays