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