Key questions defining research program:

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

Key words describing research program:

1) Pulmonary Hypertension
2) Right heart failure
3) NHERF1
4) Cell signaling
5) cardiomyocyte

Titles for shovel-ready research projects:

1) The role of NHERF1 in right ventricle dysfunction in pulmonary hypertension
2) The role of NHERF1, Nox1, Ask1 and GSK3-beta in right ventricle hypertrophy following pressure overload challenge
3) The role of NHERF1 in vascular remodeling and vascular cell reprogramming in pulmonary hypertension

Data sources for shovel-ready research projects:

1) Imaging tools
2) Western blotting and PCR
3) Biochemical assays