Key questions defining research program:

• What makes some asthma patients so much more difficult to treat than others?
• What is the underlying pathobiology that defines some asthma subgroups or phenotypes?
• Are there fundamental abnormalities in the airway epithelium that contribute to the development of asthma?
• How do psycho-social factors impact asthma outcomes?

Key words describing research program:

• Airway epithelium
• Granulomas
• Mast cells
• Ferroptosis
• Autophagy

Titles for shovel-ready research projects:

• Relationship of autoimmunity to severe asthma
• Impact of IL-5 targeted therapies on asthma outcomes in the real world
• Longterm outcomes in asthmatic granulomatosis
• Genetics of ErbB2 pathway in asthma

Data sources for shovel-ready research projects:

• Severe Asthma Research Program database
• Local severe asthma database
• VATS tissue biopsy database
• Asthma Institute asthma registry