Key questions defining research program:
- Molecular basis of function of acid sensing ion channels/epithelial sodium channel proteins
- Role of acid-sensing ion channel 3 in mechanoreception and nociception
- Role of claudin-2 in interstitial cystitis/bladder pain syndrome
- Sensory renal innervation and blood pressure regulation

Key words describing research program:
- Acid-sensing ion channels (ASICs)
- Urothelial barrier
- Interstitial cystitis/bladder pain syndrome
- Mechanoreception and nociception
- Sensory neurons

Titles for shovel-ready research projects:
- Contribution of urinary K to the generation of interstitial cystitis symptoms (study in animal model of interstitial cystitis)
- Contribution of claudin-2 to interstitial cystitis/bladder pain syndrome (analysis of human samples)
- Characterization of a novel mouse model of interstitial cystitis (transgenic animal generated in our lab)
- Role of ASIC3 in the modulation of pain in a cyclophosphamide model of cystitis (study with ASIC3 knockout mice)
- Expression of ASIC3 in urinary bladder afferents

Data sources for shovel-ready research projects: