

## **Grant Support (active)**

NIH, R01 DK091267 “Enhanced lithotripsy through coalescence and dispersion of cavitation bubbles” PI: Timothy L. Hall, Ph.D, 7/1/17 – 4/31/21, \$1,432,257.

Boston Scientific, “Optimal holmium laser settings for dusting technique during endoscopic stone surgery” PI: Khurshid R. Ghani, M.D. 1/1/17 – 11/18/18, \$602,000. *{renewal submitted 11/19/18 -11/18/20, \$702,409}*

Rocamed SAM, “Pigtail suture stent research project” Co-PIs Khurshid R. Ghani, M.D. & William W. Roberts, M.D. 7/1/18 – 12/31/18, \$83,627.

## **Grant support (previous)**

NIH, R01 DK091267 “Histotripsy for Urinary Stone Comminution” PI: Timothy L. Hall, PhD, 9/15/11 – 8/31/16 (NCTE 8/31/17), \$2,095,271.

HistoSonics, Inc. “Safety and Initial Efficacy Study of the VORTX RX for Treatment of Benign Prostatic Hyperplasia” PI: John T. Wei, MD, 7/1/13-9/1/16, \$221,007.

NIH, R01 DK087871 “Histotripsy Tissue Interactions for BPH Therapy” PI: William W. Roberts, MD, 8/1/10 – 6/30/15, \$1,664,009.

HistoSonics, Inc. “Treatment Strategy for Histotripsy Homogenization of Prostate Part 1: Management of Prostatic Urethra” PI: William W. Roberts, MD, 1/1/11 – 12/31/13, \$303,853.

## Recent Lab Publications:

1. Roberts WW: New technologies in benign prostatic hyperplasia management. *Curr Opin Urol* 26: 254-8, 2016.
2. Vlaisavljevich E, Greve J, Cheng X, Ives K, Shi J, Jin L, Arvidson A, Hall T, Welling TH, Owens G, Roberts W, Xu Z: Non-invasive ultrasound liver ablation using histotripsy: chronic study in an in vivo rodent model. *Ultrasound Med Biol* 42: 1890-902, 2016. PMID: PMC4912895.
3. Alavi-Tamaddoni H, Roberts WW, Duryea AP, Cain CA, Hall TL: Enhanced high-rate shockwave lithotripsy stone comminution in an in vivo porcine model using acoustic bubble coalescence. *J Endourol* 30: 1321-5, 2016.
4. Aldoukhi AH, Roberts WW, Hall TL, Ghani KR: Holmium laser lithotripsy in the new stone age: dust or bust? *Front Surg* 29; 4:57 September 2017.
5. Aldoukhi AH, Ghani KR, Hall TL, Roberts WW: Thermal response to high-power holmium laser lithotripsy. *J Endourol* 31: 1308-12, 2017
6. Ghani KR, Aldoukhi AH Roberts WW: Dusting utilizing suction technique (DUST) for percutaneous nephrolithotomy: use of a dedicated laser handpiece to treat a staghorn stone. *Int Braz J Urol* 44: 840-1, 2018
7. Schuster TG, Wei JT, Hendlin K, Jahnke R, Roberts WW: Histotripsy treatment of benign prostatic enlargement using the Vortx Rx system: Initial human safety and efficacy outcomes. *Urology* 114: 184-7, 2018
8. Aldoukhi AH, Hall TL, Ghani KR, Maxwell AD, MacConaghy B, Roberts WW: Caliceal fluid temperature during high-power holmium laser lithotripsy in an in vivo porcine model. *J Endourol* 32: 724-9, 2018
9. Aldoukhi AH, Roberts WW, Hall TL, Teichman JMH, Ghani KR: Understanding the popcorn effect during holmium laser lithotripsy for dusting. *Urology* 2018 Sep 5 [epub ahead of print].