

## **Basic Science Poster Session I**

### **Poster# BS1**

#### **EFFECTS OF IMPLANT GEOMETRY ON BLADDER PRESSURE TRANSDUCTION IN THE SUBMUCOSA**

Nicholas Szugye <sup>1</sup>, Paul Fletter <sup>1</sup> and Margot Damaser <sup>2</sup>

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(Presented by: Paul Fletter)

### **Poster# BS2**

#### **FREEZE-INJURED URINARY BLADDERS IN MICE PROVIDE A MICROENVIRONMENT FOR BONE MARROW-DERIVED CELLS TO REGENERATE SMOOTH MUSCLE LAYERS**

Tetsuya Imamura <sup>1</sup>, Osamu Ishizuka <sup>2</sup>, Tokunori Yamamoto <sup>3</sup>, Momokazu Gotoh Professor<sup>4</sup> and Osamu Nishizawa Professor<sup>2</sup>

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(Presented by: Tetsuya Imamura)

### **Poster# BS3**

#### **CALCIUM SENSING RECEPTOR EXPRESSED IN INTERSTITIAL CELLS MODULATES BLADDER FUNCTION**

Vivian Cristofaro, PhD, Samar Lowalekar, MD, Subbarao V. Yalla, MD and Maryrose P. Sullivan, PhD

VA Boston Healthcare System, Harvard Medical School, West Roxbury, MA

(Presented by: Vivian Cristofaro)

### **Poster# BS4**

#### **REGULATION OF TREK-1 CHANNEL BY ESTROGEN FOLLOWING ESTRUS STAGES**

Laura Dwyer, PhD, Salah Baker, PhD, Byoung Koh, BS, Lauren Peri, MS and Sang Don Koh, MD, PhD

University of Nevada Reno, NV

(Presented by: Sang Don Koh)

**Poster# BS5**

**A MOUSE MODEL OF CONDITIONAL SMOOTH MUSCLE-SPECIFIC DELETION OF THE MANGANESE SUPEROXIDE DISMUTASE GENE ALLOWS EXAMINATION OF ROLE OF OXIDATIVE STRESS IN DIABETIC BLADDER DYSFUNCTION**

Nan Xiao, MD, Guiming Liu, MD PhD, Michael Kavran, MS and Firouz Daneshgari, MD  
Case Western Reserve U.  
(Presented by: Nan Xiao)

**Poster# BS6**

**PROSTAGLANDIN-E2 IS PRODUCED BY THE DETRUSOR LAYER AND MEDIATES SPONTANEOUS RHYTHMIC CONTRACTIONS IN THE URINARY BLADDER.**

Adam Klausner, MD<sup>1</sup>, Corey Johnson, MD<sup>2</sup>, Aaron Stike, MD<sup>2</sup>, Vikram Sabarwal<sup>2</sup>, Amy Miner, BS<sup>2</sup>, Harry Koo, MD<sup>2</sup> and Paul Ratz, PhD<sup>3</sup>

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(Presented by: Adam Klausner)

**Poster# BS7**

**OREXIN HAS A DIRECT EFFECT ON BLADDER FUNCTION**

Samar Lowalekar, MD, Vivian Cristofaro, PhD, Subbarao V. Yalla, MD and Maryrose P. Sullivan, PhD  
VA Boston Healthcare System, Harvard Medical School  
(Presented by: Samar Lowalekar)

**Poster# BS8**

**EXPRESSION OF TMEM16A AND PDGFR $\alpha$  IN MURINE BLADDER MYOFIBROBLAST**

Byoung Koh, William Hatton, PhD, Fiona Britton, PhD and Sang Don Koh, MD, PhD  
University of Nevada, Reno, NV  
(Presented by: Sang Don Koh)

**Poster# BS9**

**DETRUSOR INJECTION OF AUTOLOGOUS ADIPOSE-DERIVED STEM CELLS IN CHITOSAN BASED GEL FOR TREATMENT OF THE EFFECTS OF BLADDER OUTLET OBSTRUCTION IN AN ANIMAL MODEL**

Ariana Smith, MD<sup>1</sup>, Suny Harper, BS<sup>2</sup>, Joanne Leung, BS<sup>2</sup>, Rong Zhang, DDS, PhD<sup>2</sup>, Chenlu Pan, BS<sup>2</sup>, Benjamin Wu, DDS, PhD<sup>2</sup> and Larissa Rodriguez, MD<sup>2</sup>

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(Presented by: Ariana Smith)

**Poster# BS10**

**COMPARISON OF FESOTERODINE AND TOLTERODINE EXTENDED RELEASE FOR THE TREATMENT OF OVERACTIVE BLADDER: A HEAD-TO-HEAD PLACEBO-CONTROLLED TRIAL**

Sender Herschorn, MD, CM<sup>1</sup>, Steven Swift, MD<sup>2</sup>, Zhonghong Guan, MD, PhD<sup>3</sup>, Martin Carlsson, MS<sup>3</sup>, Jon D. Morrow, MD, CM<sup>3</sup>, Marina Brodsky, PhD<sup>3</sup> and Jason Gong, MD<sup>3</sup>

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(Presented by: Sender Herschorn)

**Poster# BS11**

**EARLY ONSET OF FESOTERODINE EFFICACY IN SUBJECTS WITH OVERACTIVE BLADDER**

Howard B. Goldman, MD, FACS<sup>1</sup>, Jon D. Morrow, MD, CM<sup>2</sup>, Jason Gong, MD<sup>2</sup>, Li-Jung Tseng, PhD<sup>2</sup> and Tim Schneider, MD<sup>3</sup>

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(Presented by: Howard B. Goldman)

**Poster# BS12**

**IMMUNIZATION WITH SELF UROPLAKIN II CAUSES AUTOIMMUNE CYSTITIS; NOVEL MURINE EXPERIMENTAL AUTOIMMUNE CYSTITIS MODEL**

Cengiz Z. Altuntas, PhD<sup>1</sup>, Lauren N. Byrne, MD<sup>2</sup>, Cagri Sakalar, PhD<sup>3</sup>, M. Fatih Gulen<sup>3</sup>, Esen Bakhautdin<sup>4</sup>, Jun Qin, PhD<sup>4</sup>, Xiaoxia Li, PhD<sup>3</sup>, Vincent K. Tuohy, PhD<sup>3</sup> and Firouz Daneshgari, MD<sup>1</sup>

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(Presented by: Lauren N. Byrne)

**Poster# BS13**

**CATHETERIZING INTERSTITIAL CYSTITIS/PAINFUL BLADDER SYNDROME(IC/PBS) PATIENTS FOR INTRAVESICAL INSTILLATION: DOES CATHETER SIZE MATTER?**

Marina Ruzimovsky, BSN, MSN<sup>1</sup>, Soroush Rais-Bahrami, MD<sup>2</sup>, Kathleen Donlon, RN<sup>2</sup> and Robert Moldwin, MD<sup>2</sup>

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(Presented by: Marina Ruzimovsky)

**Poster# BS14**

**DO THE SURGICAL COMPENENTS OF SLING PROCEDURE CONTRIBUTE TO THE POST-SURGICAL BLADDER COMPLICATIONS?**

Lauren N. Byrne, MD<sup>1</sup>, Jonas Jricius, MD<sup>2</sup>, Nan Xaio, MD<sup>3</sup>, Michael Kavran, MS<sup>3</sup>, Firouz Daneshgari, MD<sup>3</sup> and Adonis Hijaz, MD<sup>3</sup>

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(Presented by: Lauren N. Byrne)

**Poster# BS15**

**GHRELIN- A PUTATIVE MECHANISTIC LINK BETWEEN OAB AND OBESITY**

Pradeep Tyagi, PhD<sup>1</sup>, Vikas Tyagi, MD<sup>1</sup>, Kenneth Peters, MD<sup>1</sup>, Erich Witteemer<sup>2</sup>, Yao-Chi Chuang, MD<sup>3</sup>, Hann-Chorng Kuo, MD<sup>4</sup>, Naoki Yoshimura, MD, PhD<sup>5</sup> and Michael Chancellor, MD<sup>1</sup>

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(Presented by: Pradeep Tyagi)

**Poster# BS16**

**URINARY NERVE GROWTH FACTOR IN OAB AND CYSTITIS**

Hana Yoon, MD, PhD<sup>1</sup>, Suk Seon Yoo, MD<sup>2</sup>, Jae Yup Hong, MD, PhD<sup>3</sup> and Ju Tae Seo, MD, PhD<sup>4</sup>

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(Presented by: Hana Yoon)

**Poster# BS17**

**EFFECTS OF OBESITY AND TYPE 2 DIABETES ON RECOVERY FROM PUDENDAL NERVE INJURY IN FEMALE ZUCKER RATS**

Hai-Hong Jiang, MD, PhD<sup>1</sup>, Bradley C. Gill, BSE<sup>1</sup>, Dan Li Lin, MD<sup>2</sup>, Jonathan B. Glaab, BS<sup>1</sup>, Bruce I. Kinley, BS<sup>2</sup> and Margot S. Damaser, PhD<sup>1</sup>

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(Presented by: Bradley C. Gill)

**Poster# BS18**

**DIABETIC BLADDER DYSFUNCTION IN TYPE 2 MOUSE MODELS MAY DIFFER FROM THAT REPORTED FOR TYPE 1 DIABETES**

Guiming Liu, PhD, Nan Xiao, MD, PhD, Michael Kavran, MS, Nicholas Boncher, MD and Firouz Daneshgari, MD

Case Western Reserve University, Cleveland, OH

(Presented by: Nicholas Boncher)