



## The 2nd Annual Meeting of The Society for Pelvic Research "Program at a Glance"

December 1, 2017 - Trainee Workshop / December 2-3, 2017 - Main Meeting

Harrah's Reno, 219 N Center St, Reno, NV 89501



December 1, 2017			
Trainee Workshop			
7:00 PM	10:00 PM	Trainee Affairs Committee Invited Workshop Leader - Dr. Johanna L. Hannan, PhD - Preparing for Life Post-PhD: Navigating the Job Search	
8:00 PM	10:00 PM	Trainee Social Event - F&B	
December 2, 2017			
7:00 AM	8:00 AM	Continental Breakfast	
8:00 AM	8:05 AM	Welcome, Opening Remarks Day 1, Mission of the SPR	
Session 1: Novel Therapies/Diagnostics for Pelvic Disorders - Moderators: Deanna C. Sinex, PhD Candidate and Sang Don Koh, PhD			
8:05 AM	8:50 AM	Key Note Speaker - Dr. Aria F. Olumi, MD - Personalizing Management of BPH	
8:50 AM	9:00 AM	Q&A	
Oral Presentations - Abstracts S1A1-S1A4			
9:00 AM	9:15 AM	S1A1	Nagle Measurement of bladder wall micromotion during urodynamics in an anesthetized pig model using M-mode ultrasound
9:15 AM	9:30 AM	S1A2	Ruggieri Afferent innervation of the canine bladder protects against urinary tract infections
9:30 AM	9:45 AM	S1A3	Dias Assessment of Aging Related Changes in the Innervation of the External Anal Sphincter Based on Motor Unit Action Potential Quantitative Analysis
9:45 AM	10:00 AM	S1A4	Chang Prophylactic Treatment Markedly Improves Bladder Capacity following Pelvic Radiation
10:00 AM	10:10 AM	Q&A	
10:10 AM	10:25 AM	Break - F&B	
Session 2: Muscle and Organ Function - Moderators: Brian M. Balog, PhD Candidate and Maryrose P. Sullivan, PhD			
10:25 AM	11:10 AM	State of the Art Speaker/International Continence Society Lecturer - Dr. Christopher H. Fry, PhD - Fibrosis and the Bladder: Implications for Function	
11:10 AM	11:20 AM	Q&A	
Oral Presentations - Abstracts S2A5-S2A8			
11:20 AM	11:35 AM	S2A5	Lee Myogenic mechanisms of detrusor overactivity in spinal cord injury
11:35 AM	11:50 AM	S2A6	Mutafova-Yambolieva Role of CD38, CD73, and Enpp1 in the degradation of $\beta$ -nicotinamide adenine dinucleotide ( $\beta$ -NAD) in the murine distal colon
11:50 AM	12:05 PM	S2A7	Hwang Cholinergic neurotransmission in the colon is mediated through M3 muscarinic receptors expressed on interstitial cells of Cajal and not smooth muscle cells
12:05 PM	12:20 PM	S2A8	Hunt Short-term high fat diet induces increased detrusor contractility independent of mitochondrial dysfunction in C57BL/6N males
12:20 PM	12:30 PM	Q&A	
12:30 PM	1:30 PM	Lunch	
Session 3: Physiology and Pharmacology I - Moderators: Michael R. Odom, PhD Candidate and Kelvin P. Davies, PhD			
1:30 PM	2:15 PM	State of the Art Speaker - Dr. Hamid I. Akbarali, PhD - The Guts of the Opioid Crisis: Role of the Microbiome	
2:15 PM	2:25 PM	Q&A	
Oral Presentations - Abstracts S3A9-S3A12			
2:25 PM	2:40 PM	S3A9	Drumm The firing of intracellular Ca <sup>2+</sup> waves in mouse urethral smooth muscle relies on a store operated Ca <sup>2+</sup> entry pathway to sustain Ca <sup>2+</sup> release from ER stores
2:40 PM	2:55 PM	S3A10	Hughes NLRP3 Controls Bladder Decomensation during Chronic Bladder Outlet Obstruction
2:55 PM	3:10 PM	S3A11	Dunton Elevated hydrostatic pressure stimulates ATP release and mediates activation of the NLRP3 inflammasome via P2X4 in rat urothelial cells
3:10 PM	3:25 PM	S3A12	Xu Diabetic changes in function and protein O-GlcNAcylation in visceral organs
3:25 PM	3:35 PM	Q&A	
3:35 PM	3:50 PM	Break - F&B	
Session 4: Special Topics I - Moderators: Katrina M. Knight, PhD and Sean M. Ward, PhD			
3:50 PM	4:35 PM	Special Guest Speaker - Dr. Gene F. Civillo, PhD - NIH SPARC: Mapping the Neural Control of Organ Function	
4:35 PM	4:45 PM	Q&A	
4:45 PM	5:00 PM	Break	
Poster Session / Wine and Cheese Reception - Moderators: Steven D. Abramowitch, PhD and Michael E. DiSanto, PhD			
Poster Presentations - Abstracts P525-P535			
5:00 PM	7:00 PM	P525	Carew Bladder expression of Myosin 5A Isoforms
		P526	Provence Ca <sup>2+</sup> -dependent activation of transient receptor potential melastatin-4 channels by sarcoplasmic reticulum inositol trisphosphate receptors in human detrusor
		P527	Salvadeo Direct innervation from lower thoracic and upper lumbar ventral horn to the detrusor is mediated by neuromuscular nicotinic receptors
		PS29	McMains Inflammatory cytokine interleukin 1 beta increases apoptosis in dissociated major pelvic ganglia neurons
		PS30	Lam Van Ba Lumbar to sacral root rerouting to restore bladder function in a feline spinal cord injury model: urodynamic and retrograde nerve tracing results from a pilot study
		PS31	Zirpel Peripheral nerve neuromodulation of urological function using a distributed sensing and stimulation system
		PS32	Nagle Comparison of bladder shape between individuals with and without overactive bladder
		PS33	Zhang Investigation of Motor Unit Firing Patterns of Bulbospongiosus Muscle in Type II Diabetic Female Patients
		PS34	Hehemann Sonic hedgehog regulation of rhabdosphincter muscle
		PS35	Rembetski The Ca <sup>2+</sup> -activated Cl <sup>-</sup> channel ANO1 is expressed in mouse urethral interstitial cells of Cajal and contributes to urethral smooth muscle Ca <sup>2+</sup> signaling and contractility
December 3, 2017			
7:00 AM	8:00 AM	Continental Breakfast	
8:00 AM	8:05 AM	Welcome, Opening Remarks Day 2	
Session 5: Pelvic Floor - Moderators: Anna S. Nagle, PhD and Carol A. Podlasek, PhD			
8:05 AM	8:50 AM	Key Note Speaker - Dr. James A. Ashton-Miller, PhD - On Pressing Female Pelvic Floor Problems: A Biomechanics Viewpoint	
8:50 AM	9:00 AM	Q&A	
Oral Presentations - Abstracts S5A13-S5A16			
9:00 AM	9:15 AM	S5A13	Sinex Changes in Hymenal Ring (HR) Position Resulting from Vaginal Parity
9:15 AM	9:30 AM	S5A14	Knjght Impact of prolapse mesh on vaginal smooth muscle function: a comparison between the rabbit and nonhuman primate
9:30 AM	9:45 AM	S5A15	Balog A Simulated Childbirth Injury Model's Recovery is Accelerated with Four Electrical Stimulations a Week
9:45 AM	10:00 AM	S5A16	Jameson Altered Elastin Homeostasis with Pelvic Organ Prolapse in the Lysyl Oxidase-Like 1 Knockout Mouse Model
10:00 AM	10:10 AM	Q&A	
10:10 AM	10:25 AM	Break - F&B	
Session 6: Special Topics II - Moderators: Shelby A. Powers, Medical/MS Student and Matthew O. Fraser, PhD			
10:25 AM	10:55 AM	Special Guest Speaker - Ms. Sherrie Palm - Comorbidities, Behavior, and Lifestyle: The POP Missing Links	
10:55 AM	11:05 AM	Q&A	
Session 7: Neuroscience of Pelvic Organs - Moderators: Trevor C. Hunt, Medical Student and Michael E. DiSanto, PhD			
Oral Presentations - Abstracts S7A17-S7A20			
11:05 AM	11:20 AM	S7A17	Frara Elimination of afferent innervation to the bladder disrupts urothelial integrity and modulates NADPH oxidase (Nox)-associated oxidative stress in a canine model of lower spinal cord injury
11:20 AM	11:35 AM	S7A18	Powers Pelvic neuron apoptosis leads to impaired bladder contractility in a rat model of prostatic radiation
11:35 AM	11:50 AM	S7A19	Dobbs Sonic hedgehog promotes cavernous nerve regeneration by inducing cavernous nerve sprouting and sprouting potential is reduced with age
11:50 AM	12:05 PM	S7A20	Hehemann Cavernous nerve crush injury increases apoptosis in a time dependent manner in the entire pelvic plexus
12:05 PM	12:15 PM	Q&A	
12:15 PM	1:15 PM	Lunch	
Session 8: Physiology and Pharmacology II - Moderators: Danielle M. Salvadeo, MD/PhD Student and Johanna L. Hannan, PhD			
Oral Presentations - Abstracts S8A21-S8A24			
1:15 PM	1:30 PM	S8A21	Tiwari In-Vivo hypogastric nerve stimulation and recording during bladder filling in canines
1:30 PM	1:45 PM	S8A22	Odom Ex vivo penile vascular function is preserved in male C57Bl6/N mice following a 12 week high fat diet despite diet-induced obesity
1:45 PM	2:00 PM	S8A23	Wang Evidence of hyperglycemic memory following diabetic bladder disease
2:00 PM	2:15 PM	S8A24	Cobine Regulation of tone in the IAS by phasic events: role of L-type calcium channels and stretch
2:15 PM	2:25 PM	Q&A	
2:25 PM	2:40 PM	Break - F&B	
2:40 PM	3:15 PM	Closing Remarks and Awards	