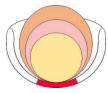


5th Annual Meeting of the Society for Pelvic Research

December 11-13, 2020

Virtual Format

#PelvRes20



Start Time	End Time	Duration	Abst #		Presenter
Friday, December 11, 2020					
Trainee Workshop					
Trainee Affairs Committee Workshop - Moderators: Michael Odom, PhD and Aileen Ouyang, PhD Candidate					
11:00 AM	12:00 PM	1:00		Career Planning and Professional Networking in a World of Social Distance	Tierney Bates, EdD
SPR 2020 Satellite Symposium - NIH P20 Center, Albert Einstein College of Medicine, NY					
Application of Nanotechnology in the Field of Benign Urologic Disease					
1:00 PM	1:10 PM	0:10		Introduction	Kelvin Davies, PhD
1:10 PM	1:40 PM	0:30		Keynote Address - Nanomedicines for the Treatment of Renal Disease	Daniel Heller, PhD
1:40 PM	2:00 PM	0:20		The "Einstein Nanoparticle": Background and History, Synthesis, Physico-chemical Characteristics and Adaptations to Benign Urologic Disease Research	Joel Friedman MD, PhD and Parimala Nacharaju, PhD
2:00 PM	2:20 PM	0:20		Application of Nanotechnology to Sexual Medicine	Kelvin Davies, PhD and Moses Tar, MD
2:20 PM	2:40 PM	0:20		Nanotechnology applied to development of delivery systems for bladder targeted therapeutics	Sylvia Suadcani, PhD
2:40 PM	3:00 PM	0:20		Invited Speaker - NO-releasing nanoparticles ameliorate detrusor overactivity in transgenic sickle cell mice via restored NO/ROCK signaling	Serkan Karakus, MD
3:00 PM	3:15 PM	0:15		Q & A	
Main Meeting					
4:00 PM	4:05 PM	0:05		Welcome, Day 1, Opening Remarks, Mission of SPR	Michael Ruggieri, Sr, PhD
Session 1: Funding Opportunities - Moderators: Armand Alkanjari, MD, Urology Resident (PGY3) and Michael Ruggieri, Sr, PhD					
4:05 PM	4:45 PM	0:40		Special Guest Lecture - Basic/Translational Science Funding Opportunities at NIA	Candace Kerr, PhD
4:45 PM	4:55 PM	0:10		Q & A	
Saturday, December 12, 2020					
12:00 PM	12:05 PM	0:05		Welcome, Day 2	Maryrose Sullivan, PhD
Session 2: Novel Therapeutics and Diagnostics - Moderators: Olivia Giovannetti, PhD Candidate and Matthew Fraser, PhD					
12:05 PM	12:45 PM	0:40		Keynote Address - Translating Basic Science Research into Clinical Management of Men and Women with Genito-Pelvic Dysesthesia (GPD)	Irwin Goldstein, MD
12:45 PM	12:55 PM	0:10		Q & A	
12:55 PM	1:05 PM	0:10	S2A1*	Nerve transfer for restoration of lower motor neuron-lesioned bladder function: Correlation between histological changes and nerve evoked contractions	Barbe, MF
1:05 PM	1:15 PM	0:10	S2A2	The Female Bladder and Urethra Harbor Distinct Microbial Communities	Wolfe, AJ
1:15 PM	1:25 PM	0:10	S2A3	Nerve transfer for restoration of lower motor neuron-lesioned bladder, urethral and anal sphincter function: Exploring sensory and motor reinnervation	Tiwari, E
1:25 PM	1:35 PM	0:10	S2A4*	Soft silicone-based neural interface to modulate bladder function	Kumar, R
1:35 PM	1:45 PM	0:10	S2A5	Nerve transfer for restoration of lower motor neuron-lesioned bladder function: Attenuation of ex-vivo, nerve-evoked, purinergic, bladder smooth muscle contractions.	Frara, N
1:45 PM	1:55 PM	0:10		Q & A	
1:55 PM	2:10 PM	0:15		BREAK	
Session 3: Models and Methods - Moderators: Nagat Frara, PhD, Postdoctoral Fellow and Georgi Petkov, PhD					
2:10 PM	2:20 PM	0:10	S3A6**	Acylglyoxylase mediates gut microbiome in a mouse model of interstitial cystitis	Rahman-Enyart, A
2:20 PM	2:30 PM	0:10	S3A7	Chronic high fat diet increases vaginal sphincter laxity but does not affect pelvic floor muscle function in mice	Burleson, LK
2:30 PM	2:40 PM	0:10	S3A8	Investigation of sensory and autonomic innervation using immunohistochemistry following cadaveric simulation of mid-urethral sling surgery	Giovannetti, O
2:40 PM	2:50 PM	0:10	S3A9	Microarray analysis of human corpora cavernosa tissue from erectile dysfunction patients with diabetes and Peyronie's	Searl, TJ
2:50 PM	3:00 PM	0:10	S3A10	Immunohistochemical Characterization of Glandular Tissue in the Female Periurethral Space Targeted by Mid-Urethral Sling Procedures	Tomalty, D
3:00 PM	3:10 PM	0:10		Q & A	
Session 4: Physiology & Pharmacology I - Moderators: Michael Odom, PhD, Postdoctoral Fellow and Maryrose Sullivan, PhD					
3:10 PM	3:50 PM	0:40		State of the Art Lecture - Motor Cortical Treatment Targets for Chronic Pelvic Pain: Big Data, Small Data, and Clinical Trials	Jason Kutch, PhD
3:50 PM	4:00 PM	0:10		Q & A	
4:00 PM	4:10 PM	0:10	S4A11	Diabetic bladder dysfunction progresses from early overactivity to an underactive bladder state in Akita diabetic mice	Alkanjari, A
4:10 PM	4:20 PM	0:10	S4A12	Peptide amphiphile nanofiber hydrogel delivery of Sonic hedgehog protein to the penis and cavernous nerve, suppresses intrinsic and extrinsic apoptotic signaling mechanisms, which are an underlying cause of erectile dysfunction	Martin, SY
4:20 PM	4:30 PM	0:10	S4A13	Enhanced neurogenic activity and nerve density in smooth muscle strips taken from closer to the serosal side of the human and dog bladder	Frara, N
4:30 PM	4:40 PM	0:10	S4A14	Lateralization of Bladder Function in Normal Female Canines	Giaddui, D
4:40 PM	4:50 PM	0:10	S4A15	Annexin A1 inhibits NLRP3 and prevents inflammation during bladder outlet obstruction	Harper, SN
4:50 PM	5:00 PM	0:10		Q & A	
Sunday, December 13, 2020					
12:00 PM	12:05 PM	0:05		Welcome, Day 3	Matthew Fraser, PhD
Session 5: Neuroscience - Moderators: Dania Giaddui, BS and Vivian Cristofaro, PhD					
12:05 PM	12:45 PM	0:40		Keynote Address - Genital dysesthesias in relation to pelvic sensory nerves and their projections	Barry Komisaruk, PhD
12:45 PM	12:55 PM	0:10		Q & A	
12:55 PM	1:05 PM	0:10	S5A16*	Loss of urethral sensitivity leads to functional deficits in rat model: implications for age-related underactive bladder	Geramipour, A
1:05 PM	1:15 PM	0:10	S5A17	Alzheimer's Disease-associated Pathology in a Transgenic Mouse Model Results in Altered Voiding Function	Hardy, CC
1:15 PM	1:25 PM	0:10	S5A18	Acylglyoxylase regulates pelvic pain and memory by microglia activation	Rahman-Enyart, A
1:25 PM	1:35 PM	0:10	S5A19	Urinary Pathophysiology of a Demyelination Model of Multiple Sclerosis	Ramasamy, R
1:35 PM	1:45 PM	0:10	S5A20	Prostatic Radiation Increases Bladder Cholinergic Nerve Density Leading to Enhanced Nerve-Mediated Contractions	Turner, AC
1:45 PM	1:55 PM	0:10		Q & A	
1:55 PM	2:10 PM	0:15		BREAK	
Session 6: Physiology & Pharmacology II - Moderators: Ekta Tiwari, PhD, Postdoctoral Fellow and Sylvia Suadcani, PhD					
2:10 PM	2:20 PM	0:10	S6A21	The endogenous anti-inflammatory protein Annexin-A1 normalizes inflammation and urodynamic parameters during bladder outlet obstruction and after deobstruction surgery	Hughes, FM
2:20 PM	2:30 PM	0:10	S6A22	Long-term decentralization of the canine bladder changes the location and pharmacology of intramural nerve nicotinic receptors mediating acetylcholine release	Porreca, DS
2:30 PM	2:40 PM	0:10	S6A23	Sonic hedgehog signaling in corpora cavernosa cells from prostatectomy, diabetic, hypertension and Peyronie's patients with erectile dysfunction	Martin, SY
2:40 PM	2:50 PM	0:10	S6A24	NLRP3-Dependent Mechanisms Downregulate Genes Controlling Urothelial Barrier Function in Diabetic Mice	Odom, MR
2:50 PM	3:00 PM	0:10	S6A25	The role of MIF downstream signaling in PAR4-induced bladder pain	Ye, S
3:00 PM	3:10 PM	0:10		Q & A	
Session 7: Physiology & Pharmacology III - Moderators: Aileen Ouyang, PhD Candidate and Kelvin Davies, PhD					
3:10 PM	3:50 PM	0:40		State of the Art and ICS Lecture - The Aging Bladder Phenotype: In the Lab	Phillip Smith, MD
3:50 PM	4:00 PM	0:10		Q & A	
4:00 PM	4:10 PM	0:10	S7A26*	Transurothelial Transport of ATP Metabolites	Mutafova-Yambolieva, VN
4:10 PM	4:20 PM	0:10	S7A27	M ₂ and M ₃ muscarinic receptors contribute to the maximal contraction differently in rat and mouse bladders.	Braverman, AS
4:20 PM	4:30 PM	0:10	S7A28	Agonist-induced contractions promote F-actin polymerization in bladder smooth muscle tissue	Cristofaro, V
4:30 PM	4:40 PM	0:10	S7A29	Novel insights into human detrusor smooth muscle function: cell-signaling pathways regulating K _{cs} 1.1α subunit subcellular localization and trafficking	Leo, MD
4:40 PM	4:50 PM	0:10	S7A30	Non-voiding Contractions are not Dyssynergic Voiding Contractions: A Study in Suprasacral Spinal Cord Injured Rats	Brooks, JM
4:50 PM	5:00 PM	0:10		Q & A	
5:00 PM	5:05 PM	0:05		Trainee Awards Presentations	Mary Barbe, PhD and Monty Hughes, PhD
5:05 PM	5:10 PM	0:05		Closing Remarks	Michael Ruggieri, Sr, PhD
5:10 PM	5:10 PM			MEETING ADJOURNS	