



9th Annual Meeting of the Society for Pelvic Research

December 5-7, 2024

Durham, NC



Thursday, December 5, 2024		
Trainee Affairs Committee Workshop - Marriott Boardroom Moderator: Cara Hardy, PhD		
6:00 PM	Training and Career Development Programs at NIA.	Maria Carranza, PhD
7:00 PM	Secrets for securing research funding	Clinton Webb, PhD
8:00 PM	Trainee Social & Networking	

Friday, December 6, 2024		
SPR 2024 Main Meeting Ballroom C		
8:00 - 9:00 AM	Breakfast & Networking (Ballroom D)	
8:30 AM	Breakfast Meeting: Larger Initiatives Underway that NIA is Supporting	Patricia Jones, DrPH, MPH Director of Office of Special Populations
9:00 AM	Welcome to Durham (Ballroom D)	Monty Hughes, PhD
9:05 AM	Keynote Address: A novel therapy that targets the biological hallmarks of bladder aging. Moderator: Monty Hughes, PhD	Lori Birder, PhD
Session 1: Emerging Technology in the Aging Pelvis. Moderators: Megan L. Falsetta, PhD and Cara Hardy, PhD		
10:05 AM	A Novel Engineered Sling for Stress Urinary Incontinence: Testing in a Rat Model	Margot Damaser*
10:18 AM	Videocystometry in a Mouse Model of Partial Bladder Outlet Obstruction	John Mathai
10:31 AM	Computational modeling of sacral nerve stimulation for treatment of overactive bladder	Daniel Marshall
10:44 AM	Coffee Break & Networking	
Session 2: Best Abstracts from Sociedad Mexicana de Ciencias Urogenitales. Moderators: Alvaro Munoz, PhD, Mary Barbe, PhD and Salvador Sanchez Mendizabal, PhD		
11:04 AM	Effect of denervation on bulbospongiosum muscle fibers of male rats with previous sexual experience.	Salvador Sanchez Mendizabal
11:17 AM	Epididymal morphological description and its alterations due to the lack of maintenance of scrotal temperature in the male rat.	Luis Angel Tuxpan Zacamo
11:30 AM	Comparative morphological study of vagal innervation efferent to celiac ganglia in male and female domestic dogs.	Andrea Cervantes
11:43 AM	Effect of gonadectomy and aging on the external sphincter of the urethra and the Levator Ani muscle in male rats.	María Isabel Pérez-Cuapio
11:56 AM	Protective effect of epigallocatechin-3-gallate on testicular damage in adult rats induced by exposure to cadmium in the pubertal stage.	Sonia Guadalupe Pérez Aguirre
12:09 PM	Lunch & Networking (Ballroom D)	
1:20 PM	Keynote Address: Role of Urethral Sensory Feedback in Voiding Moderator: Mary Barbe, PhD	Warren Grill, PhD
Session 3: Updates in Erectile Dysfunction. Moderators: Michael DiSanto, PhD and Diana Silva-Velasco, PhD		
2:20 PM	Topically applied sildenafil-nanoparticles improve erectile function in an aging-rat model of erectile dysfunction	Moses Tar
2:33 PM	Dysfunctional Piezo1 Channels in Pudendal Artery and Corpus Cavernosum Impair Vascular Dilatation in Hypertensive Mice	Raiana dos Anjos Moraes*
2:46 PM	Sonic hedgehog treatment suppresses long term penile remodeling after cavernous nerve injury.	Carol Podlasek*
2:59 PM	Cell-Free Mitochondrial DNA Induces Vascular and Erectile Dysfunction via Toll-Like Receptor 9 and Inflammasome Pathway Activation	Rinaldo Rodrigues dos Passos
3:12 PM	Coffee Break & Networking	
3:30 PM	Keynote Address: Deciphering Visceral Instincts Moderator: Vivian Cristofaro, PhD	Diego V. Bohorquez, PhD
Session 4: Neuroscience of the Pelvis. Moderators: Wade Bushman, MD, PhD and Ekta Tiwari, PhD		
4:30 PM	Facilitation of Non-Nociceptive Bladder Activity and Suppression of Somatic Afferent Inhibition by Hypogastric Afferents in Cats	Jonathan Beckel
4:43 PM	6-Nitrodopamine as a Novel Endogenous Modulator of Mouse Urinary Bladder	Mariana De Oliveira
4:56 PM	Effects of P2X2/3 Purinergic Receptor Inhibition on Sensory Response Threshold and voiding Behavior in Female Rats	Emely V. Muñoz Ramirez
5:09 PM	Announcement of Phillip P. Smith Endowed Lectureship	Cara Hardy, PhD & Maryrose Sullivan, PhD
5:30 PM	Wine and Cheese Reception & Networking	

Saturday, December 7, 2024		
SPR 2024 Main Meeting Ballroom C		
8:00 - 9:00 AM	Breakfast & Networking (Ballroom D)	
8:45 AM	Welcome, Day 2, Opening Remarks	
	Session 5: Novel Signaling Pathways Shaping Pelvic Function. Moderators: Jonathan Beckel, PhD and Brendan Hilliard, PhD	
8:50 AM	Role of Cannabinoid Receptor Signaling Pathway in Interstitial Cystitis/Bladder Pain Syndrome	Alicia J. Palmieri
9:03 AM	Activation of Polo-Like Kinase 1 Regulates Angiotensin II-Induced Contraction in Pudendal Arteries	Diana Silva-Velasco
9:16 AM	SRD5A2 Targets WNT5A to Regulate Prostate Growth	Zongwei Wang
9:29 AM	Adiponectin signaling regulates bladder function	Weiqun Yu
9:42 AM	Pelvic radiation did not further impair sexual function in aged female rats	Johanna L. Hannan
9:55 AM	Keynote Address: <i>The Perplexing Roles of Obstruction and Impaired Contractility in Men with BPH.</i> Moderator: Carol Podlasek, PhD	Wade Bushman, MD, PhD
10:55 AM	Coffee Break & Networking	
	Session 6: Multi-Organ Interactions. Moderators: Sylvia Suadicani, PhD and Tiago Gonçalves, PhD	
11:15 AM	Post-Prostatectomy Major Pelvic Ganglion Inflammation: Implications for Bladder and Erectile Dysfunction Through Organ Crosstalk	Ekta Tiwari
11:28 AM	Bladder Hypercontractility Induced by Traumatic Brain Injury is Prevented by the Genetic Downregulation of Thioredoxin-Interacting protein, TXNIP	Vivian Cristofaro
11:41 AM	Enhanced brain-derived neurotrophic factor and reactive oxygen species in mucosa of lower motor neuron-lesioned dog bladder following somatic-motor nerve transfer: Aging's influence	Nagat Frara
11:54 AM	Preliminary report: Augmentation of nerve transfer in decentralized bladder using an AAV construct to express BDNF protein in the bladder wall.	Evan E. Tully
12:07 PM	Lunch & Networking (Ballroom D)	
1:15 PM	Keynote Address: <i>Pioneering Research into the Mechanisms of Genitopelvic Pain</i> Moderator: Johanna Hanna, PhD	Megan L. Falsetta, PhD
	Session 7: Pelvic Consequences of Diabetes and Obesity. Moderators: Zachary Danziger, PhD and Rinaldo dos Passos, PhD	
2:15 PM	Increased Prevalence of Type 2 Diabetes Mellitus in Urologic Chronic Pelvic Pain Syndrome: A Large-Scale Observational Study Using a Near Real Time Live Database	Benjamin E. Rubin
2:28 PM	Necroptosis of Schwann cells is responsible for the diabetic decrease in efferent neurotransmitter release in bladder smooth muscle in male Akita mice	Francis Hughes*
2:41 PM	Type 2 Diabetic KK.Cg-A ^Y Male Mice Have Overactive Bladder with Reduced Expression of P2X1 and β 1-Integrin at Four Months of Age	Warren Hill
2:54 PM	Obesity in Early Life Leads to Caverosal and Pudendal Dysfunction in Young Adult Rats	Fernanda Priviero*
3:07 PM	Macrophage-Derived TLR9 Activation in Inflammation, Erectile Dysfunction, and Vascular Impairments: Potential Therapeutic Approaches for Obesity and Diabetes-Related Complications	Tiago Tomazini Goncalves
3:20 PM	Coffee Break & Networking	
	Session 8: Biomechanics and Novel Models of Pelvic Organs. Moderators: Margot Damaser, PhD and Raiana dos Anjos Moraes, PhD	
3:40 PM	Emerging function and associated transcriptomic changes in the early developing zebrafish bladder	Duncan Morhardt
3:53 PM	The relation of bladder pressure and volume to bladder reflex contractions in rat	Zachary Danziger
4:06 PM	Time-dependent Microstructural and Mechanical Properties of Murine Vaginal Tissue	Clara Gimenez
4:19 PM	Impact of surgical bladder catheter implantation on voiding function in male and female mice	Benjamin E. Rubin
	Session 9: <i>The Great Debate: Underlying Mechanisms of Erectile dysfunction.</i> Moderator: Carol Podlasek, PhD	
4:34 PM	Introduction	Michael DiSanto
4:39 PM	Neural injury and Erectile Dysfunction	Johanna Hannan
4:49 PM	Smooth muscle dysfunction and Erectile Dysfunction	Kelvin Davies
4:59 PM	Immune response and Erectile Dysfunction	Fernanda Priviero
5:09 PM	Rebuttals and Discussion	
5:20 PM	Trainee Awards Presentation	Mary Barbe, PhD & Monty Hughes, PhD
5:35 PM	Closing Remarks	
6:00 PM	Gala Dinner	

*Top Five Abstract Awardee