



Sociedad Mexicana de Ciencias Urogenitales, A.C.

2nd Annual Meeting of Urogenital Sciences

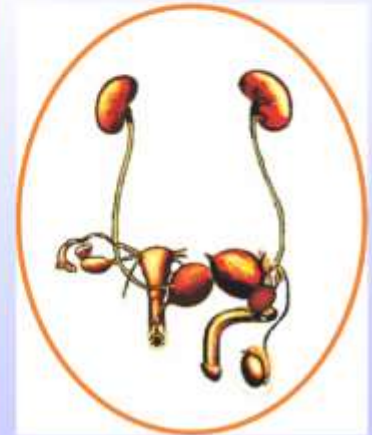
September 28th to October 1st
2022

Hybrid Modality



<http://www.smcurogenital.org>

Contact: smcucongreso@gmail.com



Tlaxcala, Tlax. 2022



AIM

The essential purpose of this meeting is to share preclinical, clinical, and technological knowledge to undergraduate and graduate students in the area of urogenital sciences, as well as to reunite and open an interactive forum between scientists of basic and translational urogenital scientists and clinicians.

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SPEAKERS

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Universidad Autónoma Metropolitana-Izt, México

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Unisinós University, Porto Alegre, Brazil

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INB, UNAM, México

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Cleveland Clinic, USA

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Hospital ABC, México

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Nicholas Pound, Ph. D.
Brunel University London, UK

Fausto Rojas Durán, Ph. D.
IICE, Universidad Veracruzana, México

Angélica Rueda, Ph. D.
CINVESTAV-IPN, México

Todd K. Shackelford, Ph. D.
Oakland University, USA

Andrew Shoffstal, Ph. D.
Case Western Reserve University, USA

Alejandro Tarazona, MD-Urologist
Clínica de la Mujer, Bogota, Colombia

Angélica Trujillo Hernández, Ph. D.
FCB, Benemérita Universidad Autónoma de Puebla, México

José Manuel Viveros Elías, MD-Urologist
Urología Integral, La Paz, BCS, México

Yingchun Zhang, Ph. D.
University of Houston, USA

Scientific Program

September 28th

8:30-9:00 Registration

9:00-10:00 Opening ceremony

Session I: Neuroscience in Urogenital Sciences **Moderator: Yolanda Cruz Gómez**

10:00-11:00 **Lecture 1.** Afferent interactions influencing lower urinary tract function
Matthew O. Fraser

11:00-13:00 **Symposium 1.** Neurogenic overactive bladder. Diagnosis and botulin neurotoxin treatment, actual state
Neurogenic Overactive bladder. What is it? How to diagnose it?
Siviardo De León

Botulin neurotoxin. Historical overview. How does it work? What kinds are there?
José Luis Palacios Galicia

Injection of botulin neurotoxin for neurogenic bladder
Carlos Pérez Martínez (Organizer)

13:00-14:00 Lunch Break

Session II. Pelvic Floor Dysfunction **Moderators: Alvaro Muñoz and José Luis Palacios**

14:00-15:00 **Lecture 2.** Female genital pathophysiology
Kristin Miller

15:00-16:00 **Lecture 3.** Elastinopathy in pelvic organ and rectal prolapse
Margot S. Damaser

16:00-17:00 **Lecture 4** Quantitative and phenotypic diagnosis and personalized treatment of chronic pelvic pain.
Yingchung Zhang

17:00-18:00 **Poster Session: Basic research in urogenital function**

September 29th

Session III: Male Urogenital Function

9:00-11:00 **Symposium 2. From sperm to sperm competition**
Moderator: Margarita Juárez

Sperm: structure and function
Francisco Jiménez Trejo

Sperm in cadmium and zinc conditions
Marcela Arteaga Silva

Rapid ejaculators during copulatory competition and female pacing
Rosa Angélica Lucio (Organizer)

Adaptations to sperm competition in mammals: Implications for clinical practice
Nicholas Pound

Moderator: Rosa Angélica Lucio

11:00-12:00 **Lecture 5.** Life history correlates of human (*Homo sapiens*) ejaculate quality
Todd Shackelford

12:00-14:00 **Short Oral Podium-Presentations. Male urogenital function**
Moderators: Albertina Cortés and Mayvi Alvarado

14:00-15:00 Lunch Break

Session IV: Male Urogenital Function/dysfunction

15:00-17:00 **Symposium 3. Prostate diseases: risk factor and therapeutic approaches**

Moderator: Raúl Juárez Mendieta

Influence of steroidogenic context and iodine supply in models of prostatic pathologies
Rocío Brenda Anguiano Serrano

Effect of obesity in prostatic diseases development
Deyssi Herrera Covarrubias

Prolactin in prostate pathogenesis: contribution to cancer cells migration
Fausto Rojas Durán

Participation of the autonomic nervous system in prostate injury
María Elena Hernández Aguilar (Organizer)

September 30th

Session V: Spinal Cord Injury

Moderators: Alvaro Munoz Toscano and Maria Elena Hernandez Aguilar

9:00-10:00 **Lecture 6.** Calidad de vida en el paciente neuro-urológico
Jorge Moreno

10:00-11:00 **Lecture 7.** Management of neurogenic bladder after spinal cord injury
Marcio Averbek

11:00-12:00 **Short Oral Podium-Presentations.** LUT neurogenic dysfunction

12:00-14:00 **Symposium 4. Urogenital Dysfunction, Treatment and Rehabilitation after Spinal Cord Injury**

Moderators and organizer: *José Manuel Viveros Elías*

Use of B3 agonist in the treatment of neurogenic bladder
Jorge Moreno

Comprehensive approach of sexuality of people with spinal cord injury
Melina Longoni DiGiusto

Use of SARS (Sacral Anterior Root Stimulation) in the management of the lower urinary tract neurogenic dysfunction
Alejandro Tarazona

Transitional care of neurogenic bladder in patients with spina bifida: from child to adult
José Manuel Otero

14:00-16:30 **Workshop: Techniques used for Clinical and Preclinical Urogenital Studies**

Behavioral

Copulatory behavior
Rosa Angélica Lucio

Micturition behavior and vesical diary
Margarita Juárez Romero
Carlos Pérez Martínez

Urodynamic

Cystometric test and electromyography
Yolanda Cruz Gómez
José Luis Palacios Galicia

Analysis of ryanodine receptors and serca pump in visceral and vascular smooth muscle
Angélica Rueda

Electroencephalography
Jossue A. Camacho Candia
Enrique Hernández Arteaga

Molecular Biology

Western-blot analysis
Maria Elena Hernández Aguilar

Histology

The hematoxylin and eosin technique
Cesar F. Pastelín Rojas

16:30-17:30 SMCU Business Session

October 1st

Session VI: Neuro-urology

Moderator: Yolanda Cruz Gómez

9:00-10:00 **Lecture 8** Back to basics in preclinical studies: screening protocols vs. classical physiological approaches.
Matthew Fraser

10:00-11:00 **Short Oral Podium-Presentations**

Moderator: Alvaro Munoz Toscano

11:00-12:00 **Lecture 9.** Keep it simple sacral: Using KISS principles to refine sacral neuromodulation
Andrew Shoffstall

12:00-13:00 **Lecture 10.** Onabotulinumtoxin A vs sacral neuromodulation for urgency incontinence
Bertil Blok

13:00-14:00. Lunch Break

Session VII: Female reproductive Pathologies

Moderator: Albertina Cortés Sol

14:00-16:00 **Symposium 5.** Other approaches to address the pathogenesis of Polycystic Ovary Syndrome
New perspectives of Polycystic Ovary Syndrome
Leticia Morales Ledezma

Role of the vagus nerve in the regulation of the Polycystic Ovary Syndrome
Rosa Linares Culebro

Influence of the sympathetic innervation on the Polycystic Ovary Syndrome
Julieta Azucena Espinoza Moreno

Obesity and its relation to Polycystic Ovary Syndrome
Angélica Trujillo Hernández (Organizer)

16:00-17:00 Awards and Closing Message