



**Sistema Integral de Información Académica**  
**Coordinación de Planeación, Evaluación y**  
**Simplificación de la Gestión Institucional**  
**Reporte individual**



**FRANCISCO CASTELAN**

## Datos Generales

**Nombre:** FRANCISCO CASTELAN

**Máximo nivel de estudios:** DOCTORADO

**Antigüedad académica en la UNAM:** 8 años

---

## Nombramientos

**Vigente:** INVESTIGADOR TITULAR A TC No Definitivo  
Instituto de Investigaciones Biomédicas  
Desde 01-05-2016

---

---

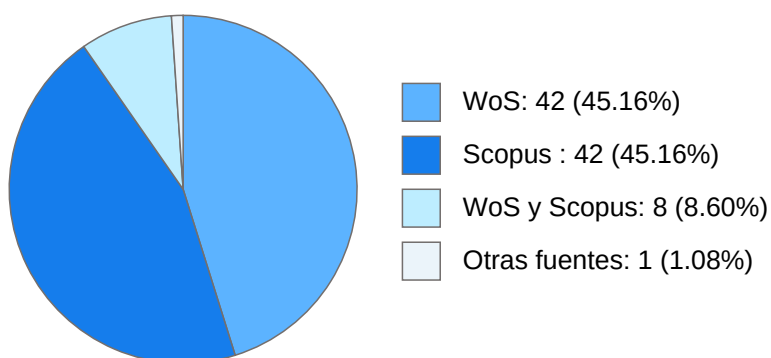
## Estímulos, programas, premios y reconocimientos

SNI IIIVIGENTE  
SNI II 2020 - 2024  
SNI I 2019  
PRIDE C 2021 - 2024  
EQUIVALENCIA PRIDE B 2016 - 2021

## FRANCISCO CASTELAN

### DOCUMENTOS EN REVISTAS

#### Histórico de Documentos



| # | Título                                                                                                                                                         | Autores                                                                       | Revista                                                  | Año  |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|----------------------------------------------------------|------|
| 1 | Neuromodulation Improves Stress Urinary Incontinence-Like Deficits in Female Rabbits                                                                           | FRANCISCO CASTELAN F. S. Rahman Z. Yousuf et al.                              | IEEE Open Journal of Engineering in Medicine and Biology | 2025 |
| 2 | Neurotrophins and their receptors in the peripheral nervous system and non-nervous tissue of fish                                                              | FRANCISCO CASTELAN Aldo Isaac Carrillo-Munoz Sharete Y. R-Jaimes et al.       | FISH PHYSIOLOGY AND BIOCHEMISTRY                         | 2025 |
| 3 | Yin Yang 1: Function, Mechanisms, and Glia                                                                                                                     | FRANCISCO CASTELAN Ada G. Rodriguez-Campuzano Luisa C. Hernandez-Kelly et al. | NEUROCHEMICAL RESEARCH                                   | 2025 |
| 4 | Methimazole-Induced Hypothyroidism Increases the Content of Glycogen and Changes the Expression of LDH, GLUT4, and Aromatase in the Pregnant Uterus of Rabbits | FRANCISCO CASTELAN ESTELA CUEVAS ROMERO Espindola-Lozano M. et al.            | Metabolites                                              | 2025 |
| 5 | Obesity, ovarian GLUT4 expression, and reproductive dysfunction: Insights from Zucker fatty rat                                                                | FRANCISCO CASTELAN Puga y Colmenares León M.C. Trujillo-Hernández A. et al.   | REPRODUCTIVE BIOLOGY                                     | 2025 |

**FRANCISCO CASTELAN**

|    |                                                                                                                                                     |                                                                                               |                                             |      |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------|------|
| 6  | Efficacy of Local N-Acetylcysteine Administration in Mitigating OHSS Parameters: A Comparative Analysis With Dopaminergic Agonist in the OHSS Model | FRANCISCO CASTELAN WENDY ARGELIA GARCIA SUASTEGUI JOSE LUIS MORAN PERALES et al.              | INTERNATIONAL JOURNAL OF ENDOCRINOLOGY      | 2024 |
| 7  | Sucrose consumption modifies the urethrogenital reflex and histological organization of the bulbospongiosus muscle in the male rat                  | MARGARITA MARTINEZ GOMEZ FRANCISCO CASTELAN Dávila-Santacruz S. et al.                        | PHYSIOLOGY & BEHAVIOR                       | 2024 |
| 8  | Shift from Pro- to Anti-Inflammatory Phase in Pelvic Floor Muscles at Postpartum Matches Histological Signs of Regeneration in Multiparous Rabbits  | FRANCISCO CASTELAN MARGARITA MARTINEZ GOMEZ Rodríguez-Benítez E. et al.                       | MEDICINA-LITHUANIA                          | 2024 |
| 9  | Consumption of sucrose in maternal and postnatal stages leads to kidney affectation in adult male rats                                              | MARGARITA MARTINEZ GOMEZ FRANCISCO CASTELAN Verónica V.-O. et al.                             | PHYSIOLOGY & BEHAVIOR                       | 2024 |
| 10 | Secondary urethral sphincter function of the rabbit pelvic and perineal muscles                                                                     | FRANCISCO CASTELAN MARGARITA MARTINEZ GOMEZ Hernandez-Reynoso A.G. et al.                     | FRONTIERS IN NEUROSCIENCE                   | 2023 |
| 11 | High-sucrose diet-fed male rats show affectations in pubococcygeus reflex activation and myofiber content                                           | PABLO PACHECO CABRERA MARGARITA MARTINEZ GOMEZ FRANCISCO CASTELAN et al.                      | TISSUE & CELL                               | 2023 |
| 12 | Basic Protocols to Study Parental Behavior in Rats                                                                                                  | FRANCISCO CASTELAN MARGARITA MARTINEZ GOMEZ Melo A.I. et al.                                  | Neuromethods                                | 2023 |
| 13 | Preventive Effect of Molecular Iodine in Pancreatic Disorders from Hypothyroid Rabbits                                                              | JULIA DE GUADALUPE RODRIGUEZ CASTELAN EVANGELINA DELGADO GONZALEZ FRANCISCO CASTELAN et al.   | INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES | 2023 |
| 14 | Multiparity Reduces Urethral and Vaginal Pressures Following the Bulboglandularis Muscle Stimulation in Rabbits                                     | FRANCISCO CASTELAN MARGARITA MARTINEZ GOMEZ Hernández-Bonilla C. et al.                       | REPRODUCTIVE SCIENCES                       | 2023 |
| 15 | Effects of hypothyroidism on the female pancreas involve the regulation of estrogen receptors                                                       | JULIA DE GUADALUPE RODRIGUEZ CASTELAN CARMEN YOLANDA ACEVES VELASCO FRANCISCO CASTELAN et al. | Steroids                                    | 2022 |
| 16 | G protein-coupled estrogen receptor (GPER/GPR30) levels in pelvic floor muscles and its association with estrogen status in female rabbits          | MARGARITA MARTINEZ GOMEZ ESTELA CUEVAS ROMERO FRANCISCO CASTELAN et al.                       | GYNECOLOGICAL ENDOCRINOLOGY                 | 2022 |
| 17 | Heat shock proteins and antioxidants as mechanisms of response to ivermectin in the dung beetle Euoniticellus intermedius                           | JESUS RAMSES CHAVEZ RIOS FRANCISCO CASTELAN ALEJANDRO CORDOBA AGUILAR et al.                  | Chemosphere                                 | 2021 |

## FRANCISCO CASTELAN

|    |                                                                                                                                                   |                                                                                      |                                                                               |      |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------|
| 18 | Differential estrogen-related responses in myofiber cross-sectional area of pelvic floor muscles in female rats                                   | PABLO PACHECO CABRERA<br>MARGARITA MARTINEZ GOMEZ<br>FRANCISCO CASTELAN et al.       | GYNECOLOGICAL<br>ENDOCRINOLOGY                                                | 2021 |
| 19 | Targeted neuromodulation of pelvic floor nerves in aging and multiparous rabbits improves continence                                              | KENIA LOPEZ GARCIA FRANCISCO<br>CASTELAN MARGARITA MARTINEZ<br>GOMEZ et al.          | SCIENTIFIC<br>REPORTS                                                         | 2021 |
| 20 | Estrogens influence differentially on the pelvic floor muscles activation at somatovisceral reflexes involved in micturition of rabbits           | MARGARITA MARTINEZ GOMEZ<br>ESTELA CUEVAS ROMERO FRANCISCO<br>CASTELAN et al.        | MENOPAUSE-<br>THE JOURNAL OF<br>THE NORTH<br>AMERICAN<br>MENOPAUSE<br>SOCIETY | 2021 |
| 21 | Bladder and urethral dysfunction in multiparous and mature rabbits correlates with abnormal activity of pubococcygeus and bulbospongiosus muscles | PABLO PACHECO CABRERA<br>FRANCISCO CASTELAN MARGARITA<br>MARTINEZ GOMEZ et al.       | NEUROUROLOGY<br>AND<br>URODYNAMICS                                            | 2020 |
| 22 | Selective neuromodulation of the bulbospongiosus nerve improves voiding efficiency in old multiparous rabbits                                     | FRANCISCO CASTELAN MARGARITA<br>MARTINEZ GOMEZ Ana<br>Hernandez-Reynoso et al.       | NEUROUROLOGY<br>AND<br>URODYNAMICS                                            | 2020 |
| 23 | The Expression of Hormone Receptors as a Gateway toward Understanding Endocrine Actions in Female Pelvic Floor Muscles                            | FRANCISCO CASTELAN MARGARITA<br>MARTINEZ GOMEZ Estela<br>Cuevas-Romero               | ENDOCRINE<br>METABOLIC &<br>IMMUNE<br>DISORDERS-<br>DRUG<br>TARGETS           | 2020 |
| 24 | Lumbosacral ventral root avulsion alters reflex activation of bladder, urethra, and perineal muscles during micturition in female rabbits         | FRANCISCO CASTELAN MARGARITA<br>MARTINEZ GOMEZ Dora Luz<br>Corona-Quintanilla et al. | NEUROUROLOGY<br>AND<br>URODYNAMICS                                            | 2020 |
| 25 | Prenatal and postnatal malnutrition: Relationship with aqp2 and glut4 expression in male adult rats                                               | FRANCISCO CASTELAN Verónica<br>V.-O. Ricardo P.-F. et al.                            | Revista<br>Cubana de<br>Investigaciones<br>Biomedicas                         | 2019 |
| 26 | Signs of damage in pelvic floor muscles at the end of pregnancy in rabbits                                                                        | KENIA LOPEZ GARCIA MARGARITA<br>MARTINEZ GOMEZ FRANCISCO<br>CASTELAN et al.          | INTERNATIONAL<br>UROGYNECOLO<br>GY JOURNAL                                    | 2019 |
| 27 | Can multiparous and aging rabbits serve as a model to study pelvic floor dysfunction in women?                                                    | KENIA LOPEZ GARCIA FRANCISCO<br>CASTELAN MARGARITA MARTINEZ<br>GOMEZ et al.          | NEUROUROLOGY<br>AND<br>URODYNAMICS                                            | 2019 |
| 28 | Glutamate and glucose uptake in Bergmann glia cells are modified by bisphenol-a and 17 beta-estradiol                                             | FRANCISCO CASTELAN L.<br>Hernandez-Kelly L. Cid et al.                               | JOURNAL OF<br>NEUROCHEMIST<br>RY                                              | 2019 |

## FRANCISCO CASTELAN

|    |                                                                                                                                                                                                               |                                                                                |                                                        |      |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------|------|
| 29 | Multiparity modifies contractile properties of pelvic muscles affecting the genesis of vaginal pressure in rabbits                                                                                            | FRANCISCO CASTELAN MARGARITA MARTINEZ GOMEZ López-Juárez, R. et al.            | NEUROUROLOGY AND URODYNAMICS                           | 2018 |
| 30 | Expression of glial cell line-derived neurotrophic factor (GDNF) and the GDNF family receptor alpha subunit 1 in the paravaginal ganglia of nulliparous and primiparous rabbits                               | JESUS RAMSES CHAVEZ RIOS MARGARITA MARTINEZ GOMEZ FRANCISCO CASTELAN et al.    | INTERNATIONAL NEUROUROLOGY JOURNAL                     | 2018 |
| 31 | Hitting a triple in the non-alcoholic fatty liver disease field: sucrose intake in adulthood increases fat content in the female but not in the male rat offspring of dams fed a gestational low-protein diet | ELENA ZAMBRANO GONZALEZ FRANCISCO CASTELAN L. Nicolas-Toledo et al.            | JOURNAL OF DEVELOPMENTAL ORIGINS OF HEALTH AND DISEASE | 2018 |
| 32 | Hypothyroidism affects lipid and glycogen content and peroxisome proliferator-activated receptor $\alpha$ expression in the ovary of the rabbit                                                               | Jorge Rodriguez Antolin FRANCISCO CASTELAN Julia Rodriguez-Castelan et al.     | REPRODUCTION FERTILITY AND DEVELOPMENT                 | 2018 |
| 33 | High estradiol differentially affects the expression of the glucose transporter type 4 in pelvic floor muscles of rats                                                                                        | JESUS RAMSES CHAVEZ RIOS PABLO PACHECO CABRERA MARGARITA MARTINEZ GOMEZ et al. | INTERNATIONAL NEUROUROLOGY JOURNAL                     | 2018 |
| 34 | Multiparity affects conduction properties of pelvic floor nerves in rabbits                                                                                                                                   | FRANCISCO CASTELAN KENIA LOPEZ GARCIA ISMAEL JIMENEZ ESTRADA et al.            | BRAIN AND BEHAVIOR                                     | 2018 |
| 35 | Hypothyroidism impairs somatovisceral reflexes involved in micturition of female rabbits                                                                                                                      | MARGARITA MARTINEZ GOMEZ FRANCISCO CASTELAN Octavio Sanchez-Garcia et al.      | NEUROUROLOGY AND URODYNAMICS                           | 2018 |
| 36 | Chronic stress and high sucrose intake cause distinctive morphometric effects in the adrenal glands of post-weaned rats                                                                                       | FRANCISCO CASTELAN MARGARITA MARTINEZ GOMEZ Y. Diaz-Aguila et al.              | BIOTECHNIC & HISTOCHEMISTRY                            | 2018 |
| 37 | Characterization of the cystine/glutamate antiporter in cultured Bergmann glia cells                                                                                                                          | FRANCISCO CASTELAN Suarez-Pozos, Edna Martinez-Lozada, Zila et al.             | NEUROCHEMISTRY INTERNATIONAL                           | 2017 |
| 38 | Anatomical organization and somatic axonal components of the lumbosacral nerves in female rabbits                                                                                                             | FRANCISCO CASTELAN MARGARITA MARTINEZ GOMEZ Cruz, Yolanda et al.               | NEUROUROLOGY AND URODYNAMICS                           | 2017 |
| 39 | Moderate-to-high normal levels of thyrotropin is a risk factor for urinary incontinence and an unsuitable quality of life in women over 65 years                                                              | FRANCISCO CASTELAN MARGARITA MARTINEZ GOMEZ Cuevas-Romero, E. et al.           | CLINICAL AND EXPERIMENTAL PHARMACOLOGY AND PHYSIOLOGY  | 2017 |

## FRANCISCO CASTELAN

|    |                                                                                                                                                    |                                                                                     |                                         |      |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------|------|
| 40 | Hypothyroidism Reduces the Size of Ovarian Follicles and Promotes Hypertrophy of Periovarian Fat with Infiltration of Macrophages in Adult Rabbits | FRANCISCO CASTELAN<br>Rodríguez-Castelan, J.<br>Mendez-Tepepa, M. et al.            | BIOMED<br>RESEARCH<br>INTERNATIONAL     | 2017 |
| 41 | Distribution of thyroid hormone and thyrotropin receptors in reproductive tissues of adult female rabbits                                          | MARGARITA MARTINEZ GOMEZ<br>FRANCISCO CASTELAN<br>Rodríguez-Castelan, Julia et al.  | ENDOCRINE<br>RESEARCH                   | 2017 |
| 42 | Role of estrogens in the size of neuronal somata of paravaginal ganglia in ovariectomized rabbits                                                  | MARGARITA MARTINEZ GOMEZ<br>FRANCISCO CASTELAN<br>Hernandez-Aragon, Laura G. et al. | BIOMED<br>RESEARCH<br>INTERNATIONAL     | 2017 |
| 43 | Multiparity Causes Uncoordinated Activity of Pelvic- and Perineal-Striated Muscles and Urodynamic Changes in Rabbits                               | MARGARITA MARTINEZ GOMEZ<br>FRANCISCO CASTELAN<br>Mendoza-Martinez, German et al.   | REPRODUCTIVE<br>SCIENCES                | 2011 |
| 44 | Role of the RIC-3 protein in trafficking of serotonin and nicotinic acetylcholine receptors                                                        | FRANCISCO CASTELAN Castillo M.<br>Mulet J. et al.                                   | JOURNAL OF<br>MOLECULAR<br>NEUROSCIENCE | 2006 |
| 45 | Dual role of the RIC-3 protein in trafficking of serotonin and nicotinic acetylcholine receptors                                                   | FRANCISCO CASTELAN Castillo M.<br>Mulet J. et al.                                   | JOURNAL OF<br>BIOLOGICAL<br>CHEMISTRY   | 2005 |



**Sistema Integral de Información Académica**  
**Coordinación de Planeación, Evaluación y**  
**Simplificación de la Gestión Institucional**  
**Reporte individual**



**FRANCISCO CASTELAN**

**LIBROS Y CAPITULOS CON ISBN**

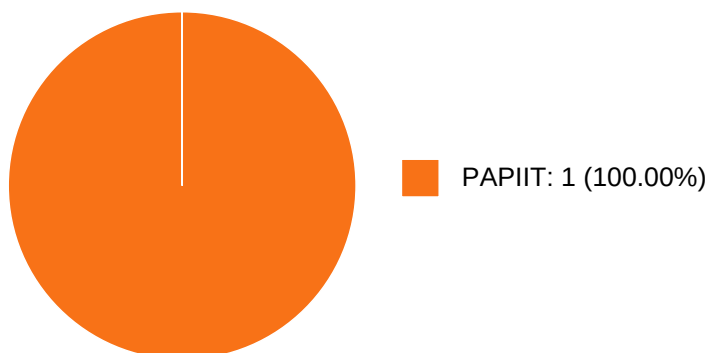
**No se encuentran registros en la base de datos de Humanindex asociados a:**

**FRANCISCO CASTELAN**

**FRANCISCO CASTELAN**

**PARTICIPACIÓN EN PROYECTOS**

**Histórico de participación en proyectos**



| # | Nombre                                                                                                                                        | Participantes      | Fuente          | Fecha inicio | Fecha fin  |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|--------------|------------|
| 1 | Sensibilidad estrogénica de músculos pélvicos de la rata hembra: respuestas locales relacionadas con la expresión de receptores de estrógenos | FRANCISCO CASTELAN | Recursos PAPIIT | 01-01-2017   | 31-12-2018 |





**Sistema Integral de Información Académica**  
**Coordinación de Planeación, Evaluación y**  
**Simplificación de la Gestión Institucional**  
**Reporte individual**



**FRANCISCO CASTELAN**

**PARTICIPACIÓN EN TESIS**

**No se encuentran registros en la base de datos de TESIUNAM asociados a:**

**FRANCISCO CASTELAN**



**Sistema Integral de Información Académica**  
**Coordinación de Planeación, Evaluación y**  
**Simplificación de la Gestión Institucional**  
**Reporte individual**



**FRANCISCO CASTELAN**

**DOCENCIA IMPARTIDA**

**No se encuentran registros en la base de datos de DGAE asociados a:**

**FRANCISCO CASTELAN**



**Sistema Integral de Información Académica**  
**Coordinación de Planeación, Evaluación y**  
**Simplificación de la Gestión Institucional**  
**Reporte individual**



**FRANCISCO CASTELAN**

**PATENTES**

**No se encuentran registros en la base de datos de patentes asociados a:**

**FRANCISCO CASTELAN**

**FRANCISCO CASTELAN**

**FUENTES DE INFORMACIÓN**

**Internos**

| # | Información                                                          | Fuente | Sistema     | Periodo   |
|---|----------------------------------------------------------------------|--------|-------------|-----------|
| 1 | Grupos ordinarios y resumen de historias académicas                  | DGAE   | SIAE        | 2008-2025 |
| 2 | Nombramientos, datos generales, estímulos, premios y reconocimientos | DGAPA  | RUPA        | 2008-2025 |
| 3 | Producción Académica                                                 | CH     | Humanindex  | 2008-2021 |
| 4 | Producción Académica                                                 | CIC    | SCIC        | 2000-2017 |
| 5 | Proyectos                                                            | DGPO   | SISEPRO     | 2018-2022 |
| 6 | Tesis                                                                | DGB    | TESIUNAM    | 2008-2025 |
| 7 | Tutorías en Posgrado                                                 | CGEP   | SIIPosgrado | 2008-2021 |

**Externos**

| #  | Información             | Fuente          | Sistema      | Periodo   |
|----|-------------------------|-----------------|--------------|-----------|
| 8  | Documentos Indexados    | Elsevier        | Scopus       | 2008-2025 |
| 9  | Documentos Indexados    | Thomson Reuters | WoS          | 2008-2025 |
| 10 | Obras con registro ISBN | INDAUTOR        | Agencia ISBN | 2008-2025 |
| 11 | Patentes                | IMPI            | SIGA         | 2008-2024 |