



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



**TZIPE SILVIA GOVEZENSKY ZACK**

## **Datos Generales**

**Nombre:** TZIPE SILVIA GOVEZENSKY ZACK

**Máximo nivel de estudios:** LICENCIATURA

**Antigüedad académica en la UNAM:** 38 años

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## **Nombramientos**

**Vigente:** TECNICO ACADEMICO TITULAR C TC Definitivo  
Instituto de Investigaciones Biomédicas  
Desde 01-01-2008 (fecha inicial de registros en el SIIA)

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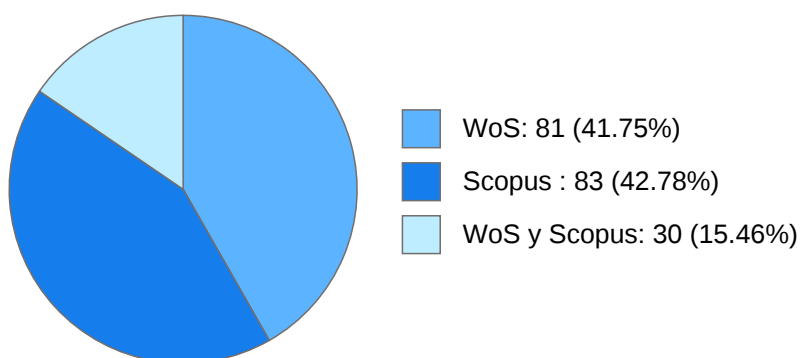
## **Estímulos, programas, premios y reconocimientos**

SNI I - VIGENTE  
PRIDE D - 2024

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**DOCUMENTOS EN REVISTAS**

**Histórico de Documentos**



| # | Título                                                                                                                                                                                                                    | Autores                                                                                    | Revista                         | Año  |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------|------|
| 1 | Sustainable visions: unsupervised machine learning insights on global development goals                                                                                                                                   | MIGUEL ANGEL ROBLES ROLDAN TZIPE SILVIA GOVEZENSKY ZACK RAFAEL ANGEL BARRIO PAREDES et al. | PLOS ONE                        | 2025 |
| 2 | Socio-economic pandemic modelling: case of Spain                                                                                                                                                                          | RAFAEL ANGEL BARRIO PAREDES TZIPE SILVIA GOVEZENSKY ZACK Snellman J.E. et al.              | SCIENTIFIC REPORTS              | 2024 |
| 3 | Modelling the creation of friends and foes groups in small real social networks                                                                                                                                           | TZIPE SILVIA GOVEZENSKY ZACK GERARDO GARCIA NAUMIS RAFAEL ANGEL BARRIO PAREDES et al.      | PLOS ONE                        | 2024 |
| 4 | Corrigendum: Neutrophil to lymphocyte ratio and principal component analysis offer prognostic advantage for dogs with mammary tumors (Frontiers in Veterinary Science, (2023), 10, (1187271), 10.3389/fvets.2023.1187271) | EILEEN URIBE QUEROL LAURA PATRICIA ROMERO ROMERO TZIPE SILVIA GOVEZENSKY ZACK et al.       | Frontiers In Veterinary Science | 2024 |
| 5 | Organizational changes and research performance: A multidimensional assessment                                                                                                                                            | JOSE LUIS JIMENEZ ANDRADE RICARDO ARENCIBIA JORGE MIGUEL ROBLES PEREZ et al.               | RESEARCH EVALUATION             | 2024 |
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| 7  | Impact of institutional organization on research productivity and multidisciplinary                                                                                              | RAFAEL ANGEL BARRIO PAREDES TZIPE SILVIA GOVEZENSKY ZACK JULIA TAGUEÑA PARGA et al.        | Frontiers In Physics                                                            | 2023 |
| 8  | Strategies for COVID-19 vaccination under a shortage scenario: a geo-stochastic modelling approach                                                                               | TZIPE SILVIA GOVEZENSKY ZACK RAFAEL ANGEL BARRIO PAREDES Barreiro N.L. et al.              | SCIENTIFIC REPORTS                                                              | 2022 |
| 9  | Modelling the interplay of SARS-CoV-2 variants in the United Kingdom                                                                                                             | TZIPE SILVIA GOVEZENSKY ZACK RAFAEL ANGEL BARRIO PAREDES Barreiro N.L. et al.              | SCIENTIFIC REPORTS                                                              | 2022 |
| 10 | EXTRACTING REAL SOCIAL INTERACTIONS FROM A DEBATE OF COVID-19 POLICIES ON TWITTER: THE CASE OF MEXICO                                                                            | JUAN ALBERTO GARCIA RODRIGUEZ TZIPE SILVIA GOVEZENSKY ZACK CARLOS GERSHENSON GARCIA et al. | ADVANCES IN COMPLEX SYSTEMS                                                     | 2021 |
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| 12 | A model for social spreading of Covid-19: Cases of Mexico, Finland and Iceland                                                                                                   | RAFAEL ANGEL BARRIO PAREDES TZIPE SILVIA GOVEZENSKY ZACK Kaski K.K. et al.                 | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS                            | 2021 |
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| 15 | Universal model for the skin colouration patterns of neotropical catfishes of the genus Pseudoplatystoma                                                                         | TZIPE SILVIA GOVEZENSKY ZACK RAFAEL ANGEL BARRIO PAREDES Scarabotti P. et al.              | SCIENTIFIC REPORTS                                                              | 2020 |
| 16 | Prenatal exposure to particulate matter and ozone: Bulky DNA adducts, plasma isoprostanes, allele risk variants, and neonate susceptibility in the Mexico City Metropolitan Area | MARIA GUADALUPE VELOZ MARTINEZ RAQUEL LOPEZ ARELLANO GABRIELA RODRIGUEZ PATIÑO et al.      | ENVIRONMENTAL AND MOLECULAR MUTAGENESIS                                         | 2019 |
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| 20 | Sub-acute exposure effect of selected polycyclic aromatic hydrocarbons on protein levels of epigenetic modifiers in non-cancerous hepatic model                               | SITLALI DEL ROSARIO OLGUIN REYES SANDRA LUZ HERNANDEZ OJEDA TZIPE SILVIA GOVEZENSKY ZACK et al. | BIOMED RES-INDIA                                       | 2018 |
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| 23 | Modelling community formation driven by the status of individual in a society                                                                                                 | GERARDO INIGUEZ GONZALEZ TZIPE SILVIA GOVEZENSKY ZACK RAFAEL ANGEL BARRIO PAREDES et al.        | Journal of Complex Networks                            | 2017 |
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| 28 | Variable epitope library carrying heavily mutated survivin-derived CTL epitope variants as a new class of efficient vaccine immunogen tested in a mouse model of breast cancer | ALLAN NOE DOMINGUEZ ROMERO<br>RUBEN ZAMORA ALVARADO<br>RODOLFO SERVIN BLANCO et al.                    | HUMAN<br>VACCINES &<br>IMMUNOTHERAP<br>EUTICS | 2014 |
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| 31 | Prolame ameliorates anxiety and spatial learning and memory impairment induced by ovariectomy in rats                                                                          | Itzel Nissen Felipe S. Estrada ALICIA<br>TRINIDAD NAVA KOPP et al.                                     | PHYSIOLOGY &<br>BEHAVIOR                      | 2012 |
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| 33 | Fractional Brownian motion in DNA sequences of bacterial chromosomes: a renormalization group approach                                                                         | MARCO ANTONIO JOSE VALENZUELA<br>TZIPE SILVIA GOVEZENSKY ZACK JUAN<br>ROMAN BOBADILLA RODRIGUEZ        | REVISTA<br>MEXICANA DE<br>FISICA              | 2010 |
| 34 | Novel amyloid-beta specific scFv and VH antibody fragments from human and mouse phage display antibody libraries                                                               | M. Medecigo K. Manoutcharian<br>TZIPE SILVIA GOVEZENSKY ZACK et al.                                    | JOURNAL OF<br>NEUROIMMUNOL<br>OGY             | 2010 |
| 35 | Immunodominant epitope and properties of pyroglutamate-modified Abeta-specific antibodies                                                                                      | Perez-Garmendia Roxanna<br>Ibarra-Bracamontes Vanessa TZIPE<br>SILVIA GOVEZENSKY ZACK et al.           | JOURNAL OF<br>NEUROIMMUNOL<br>OGY             | 2010 |
| 36 | Isolation of Neurocysticercosis-Related Antigens from a Genomic Phage Display Library of Taenia solium                                                                         | Erik Gonzalez Yetzi Robles TZIPE<br>SILVIA GOVEZENSKY ZACK et al.                                      | JOURNAL OF<br>BIOMOLECULAR<br>SCREENING       | 2010 |
| 37 | Anti-11[E]-pyroglutamate-modified amyloid beta antibodies cross-react with other pathological A beta species: Relevance for immunotherapy                                      | Roxanna Perez Garmendia Vanessa<br>Ibarra Bracamontes TZIPE SILVIA<br>GOVEZENSKY ZACK et al.           | JOURNAL OF<br>NEUROIMMUNOL<br>OGY             | 2010 |
| 38 | On the evolution of the standard genetic code: Vestiges of critical scale invariance from the RNA world in current prokaryote genomes                                          | MARCO ANTONIO JOSE VALENZUELA<br>TZIPE SILVIA GOVEZENSKY ZACK Jose<br>A. Garcia et al.                 | PLOS ONE                                      | 2009 |

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| 39 | RecBCD and RecFOR dependent induction of chromosomal deletions by sodium selenite in Salmonella                                        | JESUS JAVIER ESPINOSA AGUIRRE<br>Claudia Barajas Lemus SANDRA LUZ<br>HERNANDEZ OJEDA et al.        | MUTATION RESEARCH-FUNDAMENTAL AND MOLECULAR MECHANISMS OF MUTAGENESIS | 2009 |
| 40 | Evolution of the Genetic Code in Terms of Conserved Proteins                                                                           | Luz Caldern TZIPE SILVIA<br>GOVEZENSKY ZACK Marco V. Jos                                           | ORIGINS OF LIFE AND EVOLUTION OF BIOSPHERES                           | 2009 |
| 41 | On the Evolution of the Standard Genetic Code: From the RNA World to Current Prokaryote Genomes                                        | MARCO ANTONIO JOSE VALENZUELA<br>TZIPE SILVIA GOVEZENSKY ZACK JUAN<br>ROMAN BOBADILLA RODRIGUEZ    | ORIGINS OF LIFE AND EVOLUTION OF BIOSPHERES                           | 2009 |
| 42 | Immunodominant epitope and properties of pyroglutamate-modified A beta-specific antibodies produced in rabbits                         | GONZALO ASARIEL ACERO GALINDO<br>K. Manoutcharian MARIA ELENA<br>MUNGUIA ZAMUDIO et al.            | JOURNAL OF NEUROIMMUNOLOGY                                            | 2009 |
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| 45 | Amyloid-beta peptide binds to microtubule-associated protein 1B (MAP1B)                                                                | GOHAR GEVORGYAN ALFONSO<br>GONZALEZ NORIEGA GONZALO<br>ASARIEL ACERO GALINDO et al.                | NEUROCHEMISTRY INTERNATIONAL                                          | 2008 |
| 46 | An extended RNA code and its relationship to the standard genetic code: An algebraic and geometrical approach                          | MARCO ANTONIO JOSE VALENZUELA<br>TZIPE SILVIA GOVEZENSKY ZACK<br>Morgado E.R.                      | BULLETIN OF MATHEMATICAL BIOLOGY                                      | 2007 |
| 47 | HIV-1 dynamics at different time scales under antiretroviral therapy                                                                   | ADONIS GERMINAL COCHO GIL TZIPE<br>SILVIA GOVEZENSKY ZACK MARCO<br>ANTONIO JOSE VALENZUELA et al.  | JOURNAL OF THEORETICAL BIOLOGY                                        | 2006 |
| 48 | Identification of amyloid-beta 1-42 binding protein fragments by screening of a human brain cDNA library                               | MARIA ELENA MUNGUIA ZAMUDIO<br>TZIPE SILVIA GOVEZENSKY ZACK<br>KAREN MANUCHARYAN et al.            | NEUROSCIENCE LETTERS                                                  | 2006 |
| 49 | A lattice-based model of rotavirus epidemics                                                                                           | ALMA VIRGINIA LARA SAGAHON TZIPE<br>SILVIA GOVEZENSKY ZACK RAFAEL<br>ALBERTO MENDEZ SANCHEZ et al. | PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS                  | 2006 |

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| 50 | Mortality and antibody responses of mice to three successive episodes of experimental scorpion ( <i>Centruroides limpidus limpidus</i> ) envenomation and immunological rescue                                                       | JOSE ALEJANDRO PADILLA TREJO<br>TZIPE SILVIA GOVEZENSKY ZACK<br>LOURIVAL DOMINGOS POSSANI<br>POSTAY et al. | Toxicon                                                          | 2005 |
| 51 | Isolation of the <i>Taenia crassiceps</i> antigens from a phage display cDNA library and evaluation of their use for diagnosis of neurocysticercosis                                                                                 | TZIPE SILVIA GOVEZENSKY ZACK<br>GONZALO ASARIEL ACERO GALINDO<br>RAUL JOSE BOBES RUIZ et al.               | CLINICAL<br>IMMUNOLOGY                                           | 2005 |
| 52 | Statistical properties of DNA sequences revisited: The role of inverse bilateral symmetry in bacterial chromosomes                                                                                                                   | MARCO ANTONIO JOSE VALENZUELA<br>TZIPE SILVIA GOVEZENSKY ZACK JUAN<br>ROMAN BOBADILLA RODRIGUEZ            | PHYSICA<br>A-STATISTICAL<br>MECHANICS<br>AND ITS<br>APPLICATIONS | 2005 |
| 53 | Human single chain Fv antibodies and a complementarity determining region-derived peptide binding to amyloid-beta 1-42                                                                                                               | KAREN MANUCHARYAN GONZALO<br>ASARIEL ACERO GALINDO MARIA<br>ELENA MUNGUIA ZAMUDIO et al.                   | NEUROBIOLOGY<br>OF DISEASE                                       | 2004 |
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| 57 | Experimental envenoming of mice with venom from the scorpion <i>Centruroides limpidus limpidus</i> : Differences in mortality and symptoms with and without antibody therapy relating to differences in age, sex and strain of mouse | JOSE ALEJANDRO PADILLA TREJO<br>TZIPE SILVIA GOVEZENSKY ZACK<br>LOURIVAL DOMINGOS POSSANI<br>POSTAY et al. | Toxicon                                                          | 2003 |
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| 59 | Kinetics and characterization of cellular responses in the peritoneal cavity of mice infected with <i>Taenia crassiceps</i>                                            | JOSE ALEJANDRO PADILLA TREJO<br>TZIPE SILVIA GOVEZENSKY ZACK EDDA<br>LYDIA SCIUTTO CONDE et al.          | JOURNAL OF PARASITOLOGY | 2001 |
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| 69 | Depressed immunity to a <i>Salmonella typhimurium</i> vaccine in mice experimentally parasitized by <i>Taenia crassiceps</i>                                           | PATRICIA MARGARITA TATO<br>ZALDIVAR TZIPE SILVIA GOVEZENSKY<br>ZACK JOSE LUIS MOLINARI SORIANO<br>et al. | VETERINARY PARASITOLOGY | 1998 |
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| 71 | Numerical analysis of western blot digitalized images. The case of HIV [Análisis numérico de imágenes digitalizadas de western blot. El caso del VIH.]          | CARLOS LARRALDE RANGEL JOSE<br>ALEJANDRO PADILLA TREJO TZIPE<br>SILVIA GOVEZENSKY ZACK et al.                  | GACETA<br>MEDICA DE<br>MEXICO                                        | 1998 |
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| 78 | Thymus-related cellular immune mechanisms in sex-associated resistance to experimental murine cysticercosis (Taenia crassiceps)                                 | LUIS IGNACIO TERRAZAS VALDES<br>TZIPE SILVIA GOVEZENSKY ZACK EDDA<br>LYDIA SCIUTTO CONDE et al.                | JOURNAL OF<br>PARASITOLOGY                                           | 1993 |
| 79 | Immunoenzymatic assay that measures the expression of murine histocompatibility antigens in macrophages and lymphocytes                                         | GLADIS DEL CARMEN FRAGOSO<br>GONZALEZ YVONNE JANE<br>ROSENSTEIN AZOULAY TZIPE SILVIA<br>GOVEZENSKY ZACK et al. | J CLIN LAB ANAL                                                      | 1993 |
| 80 | Immunodiagnosis of Neurocysticercosis: Disappointing Performance of Serology (Enzyme-Linked Immunosorbent Assay) in an Unbiased Sample of Neurological Patients | TZIPE SILVIA GOVEZENSKY ZACK<br>CARLOS LARRALDE RANGEL Ramos<br>Kuri M. et al.                                 | ARCH<br>NEUROL-CHICA<br>GO                                           | 1992 |

**TZIPE SILVIA GOVEZENSKY ZACK**

|    |                                                                                                                                                                                        |                                                                                                       |                                                               |      |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------|
| 81 | Seroepidemiology of cysticercosis in Mexico [Seroepidemiología de la cisticercosis en México.]                                                                                         | CARLOS LARRALDE RANGEL JOSE<br>ALEJANDRO PADILLA TREJO TZIPE<br>SILVIA GOVEZENSKY ZACK et al.         | SALUD PUBLICA<br>DE MEXICO                                    | 1992 |
| 82 | Murine Taenia crassiceps cysticercosis: H-2 complex and sex influence on susceptibility                                                                                                | EDDA LYDIA SCIUTTO CONDE GLADIS<br>DEL CARMEN FRAGOSO GONZALEZ<br>TZIPE SILVIA GOVEZENSKY ZACK et al. | PARASITOL RES                                                 | 1991 |
| 83 | Cysticercosis vaccine: Cross protecting immunity with T. solium antigens against experimental murine T. crassiceps cysticercosis                                                       | EDDA LYDIA SCIUTTO CONDE GLADIS<br>DEL CARMEN FRAGOSO GONZALEZ<br>TZIPE SILVIA GOVEZENSKY ZACK et al. | PARASITE<br>IMMUNOLOGY                                        | 1990 |
| 84 | Immunodiagnosis of human cysticercosis in cerebrospinal fluid. Antigens from murine Taenia crassiceps cysticerci effectively substitute those from porcine Taenia solium               | CARLOS LARRALDE RANGEL JOSE<br>ALEJANDRO PADILLA TREJO TZIPE<br>SILVIA GOVEZENSKY ZACK et al.         | ARCH PATHOL<br>LAB MED                                        | 1990 |
| 85 | Deciphering western blots of tapeworm antigens (Taenia solium, Echinococcus granulosus, and Taenia crassiceps) reacting with sera from neurocysticercosis and hydatid disease patients | CARLOS LARRALDE RANGEL TZIPE<br>SILVIA GOVEZENSKY ZACK Montoya R.M. et al.                            | AMERICAN<br>JOURNAL OF<br>TROPICAL<br>MEDICINE AND<br>HYGIENE | 1989 |
| 86 | Porphyrin content of the cysticercus of Taenia solium                                                                                                                                  | CARLOS LARRALDE RANGEL EDDA<br>LYDIA SCIUTTO CONDE TZIPE SILVIA<br>GOVEZENSKY ZACK et al.             | JOURNAL OF<br>PARASITOLOGY                                    | 1986 |



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**Simplificación de la Gestión Institucional**  
**Reporte individual**



**TZIPE SILVIA GOVEZENSKY ZACK**

**LIBROS Y CAPITULOS CON ISBN**

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

**TZIPE SILVIA GOVEZENSKY ZACK**



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**Coordinación de Planeación, Evaluación y**  
**Simplificación de la Gestión Institucional**  
**Reporte individual**



**TZIPE SILVIA GOVEZENSKY ZACK**

**PARTICIPACIÓN EN PROYECTOS**

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

**TZIPE SILVIA GOVEZENSKY ZACK**



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



**TZIPE SILVIA GOVEZENSKY ZACK**

**PARTICIPACIÓN EN TESIS**

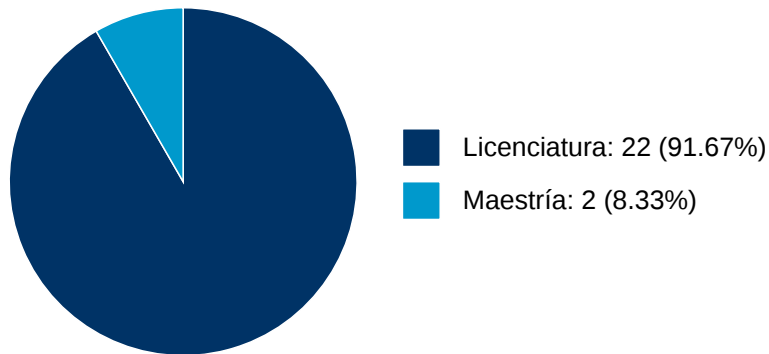
**No se encuentran registros en la base de datos de TESIUNAM asociados a:**

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**DOCENCIA IMPARTIDA**

**Histórico de docencia**



| #  | Nivel titulación | Asignatura                                        | Entidad                                 | Alumnos | Semestre |
|----|------------------|---------------------------------------------------|-----------------------------------------|---------|----------|
| 1  | Licenciatura     | ESTADISTICA                                       | Facultad de Medicina                    | 8       | 2024-2   |
| 2  | Licenciatura     | ESTADISTICA                                       | Facultad de Medicina                    | 9       | 2023-2   |
| 3  | Licenciatura     | ESTADISTICA                                       | Facultad de Medicina                    | 13      | 2022-2   |
| 4  | Licenciatura     | ESTADISTICA                                       | Facultad de Medicina                    | 11      | 2021-2   |
| 5  | Licenciatura     | ESTADISTICA                                       | Facultad de Medicina                    | 9       | 2019-2   |
| 6  | Licenciatura     | ESTADISTICA                                       | Facultad de Medicina                    | 11      | 2018-2   |
| 7  | Maestría         | TEMAS SELECTOS,ESTADISTICA                        | Facultad de Ciencias                    | 10      | 2018-2   |
| 8  | Maestría         | ESTADÍSTICA EN MEDICINA VETERINARIA Y ZOOTECNIA I | Instituto de Investigaciones Biomédicas | 3       | 2017-2   |
| 9  | Licenciatura     | ESTADISTICA                                       | Facultad de Medicina                    | 8       | 2017-2   |
| 10 | Licenciatura     | ESTADISTICA                                       | Facultad de Medicina                    | 6       | 2016-2   |
| 11 | Licenciatura     | UNIDAD TEORICA 9                                  | Facultad de Medicina                    | 1       | 2016-2   |
| 12 | Licenciatura     | UNIDAD TEORICA 10                                 | Facultad de Medicina                    | 3       | 2016-1   |
| 13 | Licenciatura     | ESTADISTICA                                       | Facultad de Medicina                    | 6       | 2015-2   |
| 14 | Licenciatura     | UNIDAD TEORICA 9                                  | Facultad de Medicina                    | 5       | 2015-1   |
| 15 | Licenciatura     | ESTADISTICA                                       | Facultad de Medicina                    | 1       | 2015-1   |
| 16 | Licenciatura     | ESTADISTICA                                       | Facultad de Medicina                    | 7       | 2014-2   |
| 17 | Licenciatura     | UNIDAD TEORICA 9                                  | Facultad de Medicina                    | 3       | 2014-1   |
| 18 | Licenciatura     | UNIDAD TEORICA 10                                 | Facultad de Medicina                    | 1       | 2013-2   |
| 19 | Licenciatura     | ESTADISTICA                                       | Facultad de Medicina                    | 13      | 2013-2   |
| 20 | Licenciatura     | ESTADISTICA                                       | Facultad de Medicina                    | 10      | 2012-2   |
| 21 | Licenciatura     | ESTADISTICA                                       | Facultad de Medicina                    | 17      | 2011-2   |



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|    |              |             |                      |    |        |
|----|--------------|-------------|----------------------|----|--------|
| 22 | Licenciatura | ESTADISTICA | Facultad de Medicina | 16 | 2010-2 |
| 23 | Licenciatura | ESTADISTICA | Facultad de Medicina | 12 | 2009-2 |
| 24 | Licenciatura | ESTADISTICA | Facultad de Medicina | 19 | 2008-2 |



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**PATENTES**

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

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**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 |