



**Sistema Integral de Información Académica**  
**Dirección General de Evaluación Institucional**  
**Reporte de Producción Académica**



**KAREN ELIZABETH NAVA CASTRO**

## Datos Generales

**Nombre:** KAREN ELIZABETH NAVA CASTRO

**Máximo nivel de estudios:** DOCTORADO

**Antigüedad académica en la UNAM:** 7 años

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## Nombramientos

**Vigente:** INVESTIGADOR TITULAR A TC No Definitivo  
Instituto de Ciencias de la Atmósfera y Cambio Climático  
Desde 01-02-2022

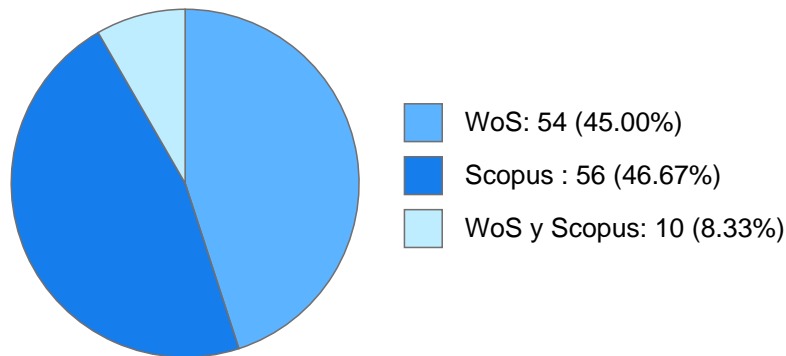
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## Estímulos, programas, premios y reconocimientos

SNI I 2015 - 2023  
SNI C 2012 - 2014  
EQUIVALENCIA PRIDE B 2017 - 2022

## DOCUMENTOS EN REVISTAS

### Histórico de Documentos



#	Título	Autores	Revista	Año
1	Impact of Chronic Moderate Exercise on Immune Cells and Cytokine Levels in Rats: Focus on the Endocannabinergic Pathway	JESUS SALVADOR VALENCIA SANCHEZ KAREN ELIZABETH NAVA CASTRO CLAUDIA ANGELICA GARAY CANALES et al.	JOURNAL OF INTERFERON AND CYTOKINE RESEARCH	2024
2	Convergence between helminths and breast cancer: intratumoral injection of the excretory/secretory antigens of the human parasite <i>Toxocara canis</i> (EST) increase lung macro and micro metastasis	KAREN ELIZABETH NAVA CASTRO VICTOR HUGO DEL RIO ARAIZA CLAUDIA ANGELICA GARAY CANALES et al.	FRONTIERS IN IMMUNOLOGY	2024
3	Sexual Dimorphism in the Physiopathology and Immune Response during Acute <i>Toxocara canis</i> Infection	VICTOR HUGO DEL RIO ARAIZA YAZMIN ALCALA CANTO CLAUDIA ANGELICA GARAY CANALES et al.	FRONTIERS IN BIOSCIENCE-LA NDMARK	2024
4	Sexual dimorphism in colorectal cancer: molecular mechanisms and treatment strategies	CLAUDIA ANGELICA GARAY CANALES KAREN ELIZABETH NAVA CASTRO JORGE MORALES MONTOR et al.	Biology of Sex Differences	2024
5	Environmental Pollution to Blame for Depressive Disorder?	MARIANA SEGOVIA MENDOZA MARGARITA ISABEL PALACIOS ARREOLA KAREN ELIZABETH NAVA CASTRO et al.	INTERNATIONAL JOURNAL OF ENVIRONMENTA L RESEARCH AND PUBLIC HEALTH	2022



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6	Molecular identification of a PGRMC-2 receptor in maturing oocytes of the zoonotic nematode parasite <i>Trichinella spiralis</i>	JORGE MORALES MONTOR KAREN ELIZABETH NAVA CASTRO JOSE MARTIN GARCIA VARELA et al.	VETERINARY PARASITOLOGY	2022
7	The Endocrine Disruptor Compound Bisphenol-A (BPA) Regulates the Intra-Tumoral Immune Microenvironment and Increases Lung Metastasis in an Experimental Model of Breast Cancer	MARGARITA ISABEL PALACIOS ARREOLA NORMA ANGELICA MORENO MENDOZA KAREN ELIZABETH NAVA CASTRO et al.	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2022
8	Sexual Dimorphism of the Neuroimmunoendocrine Response in the Spleen during a Helminth Infection: A New Role for an Old Player?	KAREN ELIZABETH NAVA CASTRO MARIANA SEGOVIA MENDOZA JORGE MORALES MONTOR et al.	Pathogens	2022
9	Association of Serum Levels of Plasticizers Compounds, Phthalates and Bisphenols, in Patients and Survivors of Breast Cancer: A Real Connection?	MARIANA SEGOVIA MENDOZA MARGARITA ISABEL PALACIOS ARREOLA KAREN ELIZABETH NAVA CASTRO et al.	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH	2022
10	Intratumoral Treatment with 5-Androstene-3 $\beta$ , 17 $\alpha$ -Diol Reduces Tumor Size and Lung Metastasis in a Triple-Negative Experimental Model of Breast Cancer	KAREN ELIZABETH NAVA CASTRO MARGARITA ISABEL PALACIOS ARREOLA VICTOR HUGO DEL RIO ARAIZA et al.	INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	2022
11	Editorial: Exploring the breast tumor microenvironment: Association to metastasis, novel risk factors and novel treatments and immunotherapies	KAREN ELIZABETH NAVA CASTRO MARIANA SEGOVIA MENDOZA JORGE MORALES MONTOR	Frontiers in Oncology	2022
12	Bisphenol A: an endocrine-disruptor compound that modulates the immune response to infections	VICTOR HUGO DEL RIO ARAIZA MARIANA SEGOVIA MENDOZA KAREN ELIZABETH NAVA CASTRO et al.	Frontiers in Bioscience-Landmark	2021
13	Environmental pollutants: an immunoendocrine perspective on phthalates	MARGARITA ISABEL PALACIOS ARREOLA JORGE MORALES MONTOR SANDRA LUZ GOMEZ ARROYO et al.	Frontiers in Bioscience-Landmark	2021
14	Cysticidal effect of a pure naphthoquinone on <i>Taenia crassiceps</i> cysticerci	KAREN ELIZABETH NAVA CASTRO VICTOR HUGO DEL RIO ARAIZA JORGE MORALES MONTOR et al.	PARASITOLOGY RESEARCH	2021
15	Perinatal exposure to bisphenol A increases in the adulthood of the offspring the susceptibility to the human parasite <i>Toxocara canis</i>	VICTOR HUGO DEL RIO ARAIZA MARGARITA ISABEL PALACIOS ARREOLA KAREN ELIZABETH NAVA CASTRO et al.	ENVIRONMENTAL RESEARCH	2020



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16	Potential Novel Risk Factor for Breast Cancer: Toxocara canis Infection Increases Tumor Size Due to Modulation of the Tumor Immune Microenvironment	MARGARITA ISABEL PALACIOS ARREOLA VICTOR HUGO DEL RIO ARAIZA KAREN ELIZABETH NAVA CASTRO et al.	Frontiers in Oncology	2020
17	Bisphenol A induces protection through modulation of the immune response against the helminth parasite Taenia crassiceps	KAREN ELIZABETH NAVA CASTRO MARGARITA ISABEL PALACIOS ARREOLA VICTOR HUGO DEL RIO ARAIZA et al.	PARASITE IMMUNOLOGY	2020
18	How microplastic components influence the immune system and impact on children health: Focus on cancer	MARIANA SEGOVIA MENDOZA KAREN ELIZABETH NAVA CASTRO MARGARITA ISABEL PALACIOS ARREOLA et al.	Birth Defects Research	2020
19	The deficiency of myelin in the mutant taiep rat induces a differential immune response related to protection from the human parasite Trichinella spiralis	KAREN ELIZABETH NAVA CASTRO VICTOR HUGO DEL RIO ARAIZA ROMEL HERNANDEZ BELLO et al.	PLOS ONE	2020
20	The chemical environmental pollutants BPA and BPS induce alterations of the proteomic profile of different phenotypes of human breast cancer cells: A proposed interactome	MARIANA SEGOVIA MENDOZA ROCIO ANGELES GARCIA BECERRA JAVIER ROLANDO AMBROSIO HERNANDEZ et al.	ENVIRONMENTAL RESEARCH	2020
21	Breast Cancer Metastasis: Are Cytokines Important Players during Its Development and Progression?	KAREN ELIZABETH NAVA CASTRO MARGARITA ISABEL PALACIOS ARREOLA MARIANA SEGOVIA MENDOZA et al.	JOURNAL OF INTERFERON AND CYTOKINE RESEARCH	2019
22	Progesterone in vitro increases growth, motility and progesterone receptor expression in third stage larvae of Toxocara canis	JORGE MORALES MONTOR KAREN ELIZABETH NAVA CASTRO HUGO RAMIREZ ALVAREZ et al.	EXPERIMENTAL PARASITOLOGY	2019
23	Neonatal Bisphenol A Exposure Affects the IgM Humoral Immune Response to 4T1 Breast Carcinoma Cells in Mice	RICARDO HERNANDEZ AVILA MARGARITA ISABEL PALACIOS ARREOLA KAREN ELIZABETH NAVA CASTRO et al.	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH	2019
24	Proteomic profile associated with cell death induced by androgens in Taenia crassiceps cysticerci: proposed interactome	JAVIER ROLANDO AMBROSIO HERNANDEZ MARGARITA ISABEL PALACIOS ARREOLA OLIVIA ALICIA REYNOSO DUCOING et al.	JOURNAL OF HELMINTHOLOGY	2019
25	Sex-associated protective effect of early bisphenol-A exposure during enteric infection with Trichinella spiralis in mice	KAREN ELIZABETH NAVA CASTRO HELENA SOLLEIRO VILLAVICENCIO MARIANA SEGOVIA MENDOZA et al.	PLOS ONE	2019



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26	Environmental pollution as a risk factor in testicular tumour development: Focus on the interaction between bisphenol a and the associated immune response	KAREN ELIZABETH NAVA CASTRO JORGE MORALES MONTOR Ramírez-Nieto R. et al.	INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH	2019
27	Immune response to chronic Toxocara canis infection in a mice model	VICTOR HUGO DEL RIO ARAIZA MARGARITA ISABEL PALACIOS ARREOLA KAREN ELIZABETH NAVA CASTRO et al.	PARASITE IMMUNOLOGY	2019
28	Chronic exercise modulates the cellular immunity and its cannabinoid receptors expression	JESUS SALVADOR VALENCIA SANCHEZ KAREN ELIZABETH NAVA CASTRO MARGARITA ISABEL PALACIOS ARREOLA et al.	PLOS ONE	2019
29	The Cytokine Interleukin 6 (IL-6) as a Neural and Endocrine Regulator	KAREN ELIZABETH NAVA CASTRO HELENA SOLLEIRO VILLAVICENCIO JORGE MORALES MONTOR et al.	Advances In Neuroimmune Biology	2019
30	Endocrine immune interactions during chronic Toxocariasis caused by Toxocara canis in a murine model: New insights into the pathophysiology of an old infection	KAREN ELIZABETH NAVA CASTRO FERNANDO ALBA HURTADO MARCO ANTONIO MUÑOZ GUZMAN et al.	VETERINARY PARASITOLOGY	2018
31	A novel progesterone receptor membrane component (PGRMC) in the human and swine parasite Taenia solium: Implications to the host-parasite relationship	JOSE HUGO AGUILAR DIAZ KAREN ELIZABETH NAVA CASTRO Domínguez-Ramírez L. et al.	PARASITES & VECTORS	2018
32	PDZ proteins are expressed and regulated in antigen-presenting cells and are targets of influenza A virus	KAREN ELIZABETH NAVA CASTRO ALFONSO RAFAEL SALGADO AGUAYO Barreda D. et al.	JOURNAL OF LEUKOCYTE BIOLOGY	2018
33	Prolactin as immune cell regulator in Toxocara canis somatic larvae chronic infection	KAREN ELIZABETH NAVA CASTRO FERNANDO ALBA HURTADO JOSE HUGO AGUILAR DIAZ et al.	BIOSCIENCE REPORTS	2018
34	Sex-Associated Differential mRNA Expression of Cytokines and Its Regulation by Sex Steroids in Different Brain Regions in a Plasmodium berghei ANKA Model of Cerebral Malaria	MARTHA LEGORRETA HERRERA KAREN ELIZABETH NAVA CASTRO MARGARITA ISABEL PALACIOS ARREOLA et al.	MEDIATORS OF INFLAMMATION	2018
35	A single neonatal administration of Bisphenol A induces higher tumour weight associated to changes in tumour microenvironment in the adulthood	MARGARITA ISABEL PALACIOS ARREOLA KAREN ELIZABETH NAVA CASTRO JORGE MORALES MONTOR et al.	SCIENTIFIC REPORTS	2017



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36	Progesterone inhibits the in vitro L3/L4 molting process in <i>Haemonchus contortus</i>	JORGE MORALES MONTOR MARCO ANTONIO MUÑOZ GUZMAN KAREN ELIZABETH NAVA CASTRO et al.	VETERINARY PARASITOLOGY	2017
37	Gender-associated differential expression of cytokines in specific areas of the brain during helminth infection	LORENA LOPEZ GRIEGO KAREN ELIZABETH NAVA CASTRO VALERIA LOPEZ SALAZAR et al.	JOURNAL OF INTERFERON AND CYTOKINE RESEARCH	2015
38	The role of cytokines in breast cancer development and progression	Marcela EsquivelVelazquez PEDRO ULISES GUADALUPE OSTOA SALOMA MARGARITA ISABEL PALACIOS ARREOLA et al.	JOURNAL OF INTERFERON AND CYTOKINE RESEARCH	2015
39	PKC alpha and PKC delta Activation Regulates Transcriptional Activity and Degradation of Progesterone Receptor in Human Astrocytoma Cells	ALIESHA ARACELI GONZALEZ ARENAS Miguel Angel PenaOrtiz VALERIA HANSBERG PASTOR et al.	Endocrinology	2015
40	Gender-Related Effects of Sex Steroids on Histamine Release and Fc epsilon RI Expression in Rat Peritoneal Mast Cells	KAREN ELIZABETH NAVA CASTRO JORGE MORALES MONTOR MunozCruz, Samira et al.	JOURNAL OF IMMUNOLOGY RESEARCH	2015
41	Androgens exert a cysticidal effect upon <i>Taenia crassiceps</i> by disrupting flame cell morphology and function	JAVIER ROLANDO AMBROSIO HERNANDEZ LAURA ELENA VALVERDE ISLAS KAREN ELIZABETH NAVA CASTRO et al.	PLOS ONE	2015
42	Sex hormones modulate the immune response to <i>Plasmodium berghei</i> ANKA in CBA/Ca mice	MARTHA LEGORRETA HERRERA Nestor Aaron MosquedaRomo KAREN ELIZABETH NAVA CASTRO et al.	PARASITOLOGY RESEARCH	2015
43	The endocrine-immune network during taeniosis by <i>Taenia solium</i> : The role of the pituitary gland	Rosalía HernándezCervantes NORMA ANGELICA MORENO MENDOZA Galileo Escobedo et al.	EXPERIMENTAL PARASITOLOGY	2015
44	Helminth infection alters mood and short-term memory as well as levels of neurotransmitters and cytokines in the mouse hippocampus	JORGE MORALES MONTOR ROMEL HERNANDEZ BELLO LORENA LOPEZ GRIEGO et al.	NEUROIMMUNO MODULATION	2014
45	The role of chemokines in breast cancer pathology and its possible use as therapeutic targets	KAREN ELIZABETH NAVA CASTRO EDUARDO ALBERTO GARCIA ZEPEDA JULIO CESAR CARRERO SANCHEZ et al.	JOURNAL OF IMMUNOLOGY RESEARCH	2014
46	Diethylstilbestrol Exposure in Neonatal Mice Induces Changes in the Adulthood in the Immune Response to <i>Taenia crassiceps</i> without Modifications of Parasite Loads	KAREN ELIZABETH NAVA CASTRO JORGE MORALES MONTOR Alejandra Ortega Hernando et al.	BIOMED RESEARCH INTERNATIONAL	2014



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47	Immunoregulation by hypophyseal hormones	KAREN ELIZABETH NAVA CASTRO JORGE MORALES MONTOR Hernández-Cervantes R. et al.	Advances In Neuroimmune Biology	2014
48	The immunoendocrine network in breast cancer	KAREN ELIZABETH NAVA CASTRO MARGARITA ISABEL PALACIOS ARREOLA PEDRO ULISES GUADALUPE OSTOA SALOMA et al.	Advances In Neuroimmune Biology	2014
49	Sex-Associated Expression of Co-Stimulatory Molecules CD80, CD86, and Accessory Molecules, PDL-1, PDL-2 and MHC-II, in F480+Macrophages during Murine Cysticercosis	Cristian "Togno Peirce KAREN ELIZABETH NAVA CASTRO JORGE MORALES MONTOR et al.	BIOMED RESEARCH INTERNATIONAL	2013
50	Erratum: Sex steroids effects on the molting process of the helminth human parasite trichinella spiralis (BioMed Research International)	ROMEL HERNANDEZ BELLO Ricardo Ramírez Nieto KAREN ELIZABETH NAVA CASTRO et al.	BIOMED RESEARCH INTERNATIONAL	2013
51	Beyond the Reproductive Effect of Sex Steroids: Their Role During Immunity to Helminth Parasite Infections	ROMEL HERNANDEZ BELLO KAREN ELIZABETH NAVA CASTRO P. Nava Luna et al.	MINI-REVIEWS IN MEDICINAL CHEMISTRY	2012
52	Sex steroids, immune system, and parasitic infections: Facts and hypotheses	KAREN ELIZABETH NAVA CASTRO ROMEL HERNANDEZ BELLO IGNACIO CAMACHO ARROYO et al.	ANNALS OF THE NEW YORK ACADEMY OF SCIENCES	2012
53	The Immunoregulatory Role of the Pituitary Gland During Helminth Infections	KAREN ELIZABETH NAVA CASTRO R. Hernandez Cervantes ROMEL HERNANDEZ BELLO et al.	NEUROIMMUNO MODULATION	2011
54	Mucosal Immunity Regulation by Sex-Steroids: The Role of Progesterone in Taeniosis by Taenia Solium	KAREN ELIZABETH NAVA CASTRO IGNACIO CAMACHO ARROYO P. Nava Luna et al.	NEUROIMMUNO MODULATION	2011
55	Sex Steroids Effects on the Molting Process of the Helminth Human Parasite Trichinella spiralis	ROMEL HERNANDEZ BELLO Ricardo Ramírez Nieto KAREN ELIZABETH NAVA CASTRO et al.	J BIOMED BIOTECHNOL	2011
56	A New MAP Kinase Protein Involved in Estradiol-Stimulated Reproduction of the Helminth Parasite Taenia crassiceps	Galileo Escobedo MARIA GLORIA SOLDEVILA MELGAREJO JESUS RAMSES CHAVEZ RIOS et al.	J BIOMED BIOTECHNOL	2010
57	Immune sexual dimorphism: Effect of gonadal steroids on the expression of cytokines, sex steroid receptors, and lymphocyte proliferation	Marco A. De Leon Nava KAREN ELIZABETH NAVA CASTRO MARIA GLORIA SOLDEVILA MELGAREJO et al.	JOURNAL OF STEROID BIOCHEMISTRY AND MOLECULAR BIOLOGY	2009



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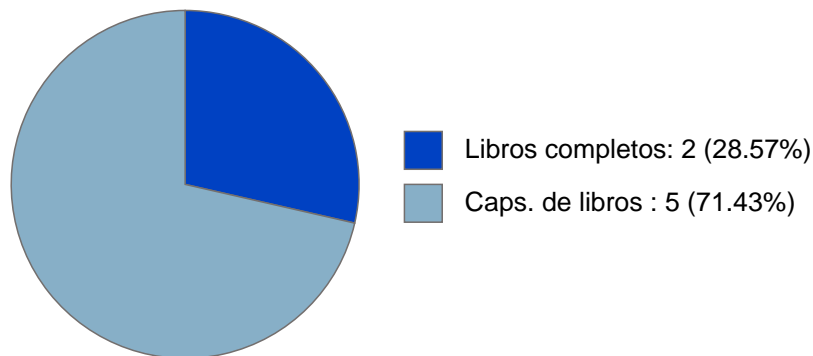
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58	A Specific Signalling Signature Characterizes the Development of Naturally Occurring and Antigen-Specific Regulatory T Cells	KAREN ELIZABETH NAVA CASTRO Diana Ordonez Rueda Adelaida Sarukhan et al.	IMMUNOLOGICA 2009 L INVESTIGATIONS
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**LIBROS Y CAPITULOS CON ISBN**

**Obras con registro ISBN**



#	Título	Autores	Alcance	Año	ISBN
1	Modulation of the Innate Immune System by the Endocrine Disrupting Compounds Bisphenol A (BPA) and Phtalathes	KAREN ELIZABETH NAVA CASTRO MARGARITA ISABEL PALACIOS ARREOLA VICTOR HUGO DEL RIO ARAIZA et al.	Capítulo de un Libro	2022	9781685076498
2	Role of 17 $\beta$ -estradiol on immune system cells function and its relationship with colorectal cancer	KAREN ELIZABETH NAVA CASTRO CLAUDIA ANGELICA GARAY CANALES Rodríguez-Santiago Y. et al.	Capítulo de un Libro	2021	9781685071226
3	Cancer vs immune tolerance-The challenge of fighting ?self?	MARGARITA ISABEL PALACIOS ARREOLA KAREN ELIZABETH NAVA CASTRO	Capítulo de un Libro	2020	9780128220283
4	Environmental pollution as a risk factor to develop colorectal cancer: The role of endocrine-disrupting chemicals in the inflammatory process as a risk factor to develop colorectal cancer	KAREN ELIZABETH NAVA CASTRO JORGE MORALES MONTOR Rodriguez-Santiago Y.	Capítulo de un Libro	2020	9780128220283



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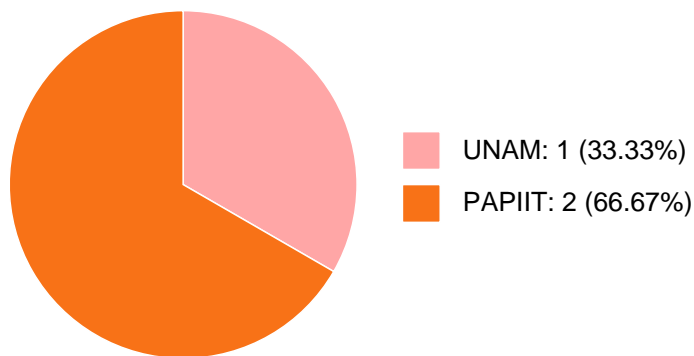


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5	The role of cytokines in the neuroimmunoendocrine network: Their participation in neurotransmission and reproduction	KAREN ELIZABETH NAVA CASTRO JOSE HUGO AGUILAR DIAZ MARCO ANTONIO CERBON CERVANTES et al.	Capítulo de un Libro	2014	9781631171291
6	Efectos no convencionales de las citocinas	OSCAR PROSPERO GARCIA MARCO ANTONIO CERBON CERVANTES IGNACIO CAMACHO ARROYO et al.	Libro Completo	2013	9786074778991
7	Efectos no convencionales de las citocinas	OSCAR PROSPERO GARCIA MARCO ANTONIO CERBON CERVANTES IGNACIO CAMACHO ARROYO et al.	Libro Completo	2013	9786074779295

## PARTICIPACIÓN EN PROYECTOS

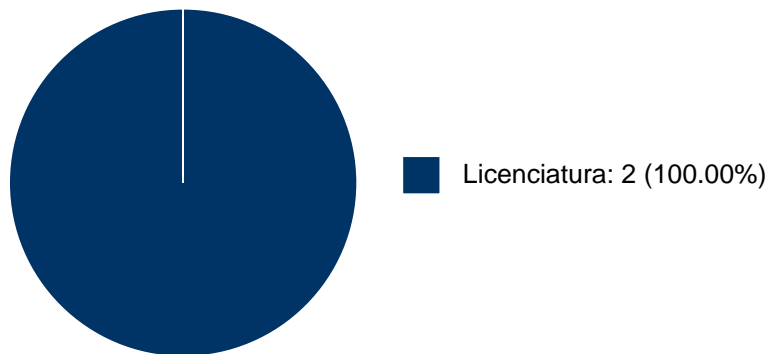
### Histórico de participación en proyectos



#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Contaminantes ambientales como inmunomoduladores y su asociación en la susceptibilidad del cáncer de mama: hidrocarburos aromáticos policíclicos y ftalatos.	KAREN ELIZABETH NAVA CASTRO	Presupuesto de la UNAM asignado a la Dependencia	01-06-2017	31-12-2018
2	Contaminantes atmosféricos como inmunomoduladores: efecto de los ftalatos sobre la función de células T reguladoras.	KAREN ELIZABETH NAVA CASTRO	Recursos PAPIIT	01-01-2019	31-12-2020
3	Contaminantes atmosféricos y su efecto sobre macrófagos y células cebadas humanas	KAREN ELIZABETH NAVA CASTRO	Recursos PAPIIT	01-01-2022	31-12-2023

## PARTICIPACIÓN EN TESIS

### Histórico de Colaboraciones en Tesis



#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	Efecto dimórfico del bisfenol a (BPA) sobre macrófagos derivados de monocitos de sangre humana	Tesis de Licenciatura	KAREN ELIZABETH NAVA CASTRO,	García Martínez, Paulina Amairani,	Centro de Ciencias de la Atmósfera,	2019
2	Caracterización de la expresión de receptores membranales a progesterona (mprs) alfa, beta y gama en tejido neuronal	Tesis de Licenciatura	JORGE MORALES MONTOR,	KAREN ELIZABETH NAVA CASTRO, Ochoa Mercado, Tania de Lourdes,	Instituto de Investigaciones Biomédicas,	2015



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**KAREN ELIZABETH NAVA CASTRO**

**DOCENCIA IMPARTIDA**

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

**KAREN ELIZABETH NAVA CASTRO**



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**KAREN ELIZABETH NAVA CASTRO**

**TUTORIAS EN POSGRADO**

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

**KAREN ELIZABETH NAVA CASTRO**



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**KAREN ELIZABETH NAVA CASTRO**

**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	2008-2024
2	Nombramientos, datos generales, estímulos, premios y reconocimientos	DGAPA	RUPA	2008-2024
3	Producción Académica	CH	Humanindex	2008-2021
4	Producción Académica	CIC	SCIC	2000-2017
5	Proyectos	DGPO	SISEPRO	2018-2022
6	Tesis	DGB	TESIUNAM	2008-2023
7	Tutorías en Posgrado	CGEP	SIIPosgrado	2008-2021

### Externos

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