



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



**ALFREDO ROBERTO ORTEGA HERNANDEZ**

## Datos Generales

**Nombre:** ALFREDO ROBERTO ORTEGA HERNANDEZ

**Máximo nivel de estudios:** DOCTORADO

**Antigüedad académica en la UNAM:** 57 años, 7 meses, 12 días

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## Nombramientos

**Último:** INVESTIGADOR TITULAR C TC Definitivo  
Instituto de Química  
Desde 01-01-2008 (fecha inicial de registros en el  
SIIA) hasta 30-09-2019

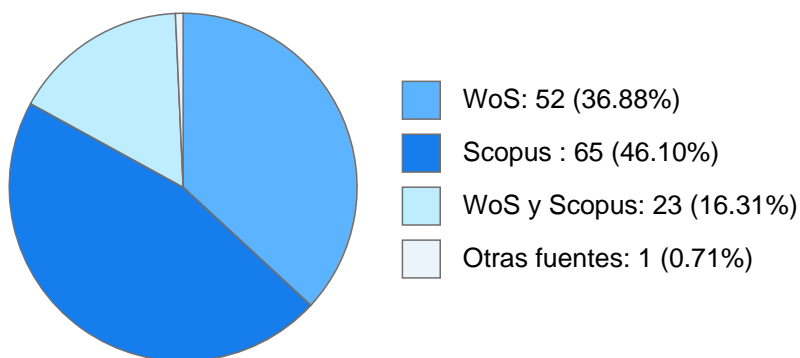
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## Estímulos, programas, premios y reconocimientos

SNI III 2021 - 2023  
SNI III 2009 - 2019  
PRIDE B 2011 - 2019  
PRIDE Fijo - 2011  
PRIDE C 2008

## DOCUMENTOS EN REVISTAS

### Histórico de Documentos



| # | Título   | Autores  | Revista                              | Año  |
|---|--|--|--------------------------------------|------|
| 1 | Further galphimines from a new population of <i>Galphimia glauca</i>   | ALFREDO ROBERTO ORTEGA<br>HERNANDEZ NAYTZE DALIA ORTIZ<br>PASTRANA RUBEN ALFREDO<br>TOSCANO et al.               | Phytochemistry                       | 2020 |
| 2 | NMR and SC-XRD analyses of a solid solution of diastereomers of microphyllane diterpenoids from <i>Salvia hirsuta</i>          | RUBEN ALFREDO TOSCANO RICARDO<br>JORGE CARDENAS PEREZ NAYTZE<br>DALIA ORTIZ PASTRANA et al.                      | JOURNAL OF<br>MOLECULAR<br>STRUCTURE | 2020 |
| 3 | Glaucacetalin E and galphimidin B from <i>Galphimia glauca</i> and their anxiolytic activity                                   | ALFREDO ROBERTO ORTEGA<br>HERNANDEZ MYRNA DECIGA CAMPOS<br>Maria Yolanda Rios et al.                             | JOURNAL OF<br>ETHNOPHARMA<br>COLOGY  | 2020 |
| 4 | DARK Classics in Chemical Neuroscience: Salvinorin A   | ABRAHAM MADARIAGA MAZON<br>ALFREDO ROBERTO ORTEGA<br>HERNANDEZ KARINA MARTINEZ<br>MAYORGA et al.                 | ACS CHEMICAL<br>NEUROSCIENCE         | 2020 |
| 5 | Trypanocidal and toxicological assessment in vitro and in silico of three sesquiterpene lactones from Asteraceae plant species | OMAR ALEJANDRO SEPULVEDA<br>ROBLES BERTHA JOSEFINA ESPINOZA<br>GUTIERREZ SILVIA LAURA GUZMAN<br>GUTIERREZ et al. | FOOD AND<br>CHEMICAL<br>TOXICOLOGY   | 2019 |



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|    |   |   |                                |      |
|----|---|---|--------------------------------|------|
| 6  | Piscicartone, a Rotenoid from <i>Piscidia carthagenensis</i>  | ALFREDO ROBERTO ORTEGA HERNANDEZ Pérez-Hernández N. Joseph-Nathan P.                      | NATURAL PRODUCT COMMUNICATIONS | 2019 |
| 7  | Amarisolide F, an Acylated Diterpenoid Glucoside and Related Terpenoids from <i>Salvia amarissima</i>   | MABEL CLARA FRAGOSO SERRANO NAYTZE DALIA ORTIZ PASTRANA RUBEN ALFREDO TOSCANO et al.      | JOURNAL OF NATURAL PRODUCTS    | 2019 |
| 8  | Difficulties to determine the absolute configuration of guaiaretic acid   | ALFREDO ROBERTO ORTEGA HERNANDEZ Eleuterio Burgueno-Tapia Pedro Joseph-Nathan             | NATURAL PRODUCT COMMUNICATIONS | 2018 |
| 9  | Neo-Clerodane Diterpenoids from <i>Salvia polystachya</i> Stimulate the Expression of Extracellular Matrix Components in Human Dermal Fibroblasts                               | NAYTZE DALIA ORTIZ PASTRANA RUBEN ALFREDO TOSCANO ALFREDO ROBERTO ORTEGA HERNANDEZ et al. | JOURNAL OF NATURAL PRODUCTS    | 2017 |
| 10 | Structural elucidation and evaluation of multidrug-resistance modulatory capability of Amarissinins A-C, diterpenes derived from <i>Salvia amarissima</i> (vol 114, pg 1, 2016) | MABEL CLARA FRAGOSO SERRANO NAYTZE DALIA ORTIZ PASTRANA RUBEN ALFREDO TOSCANO et al.      | Fitoterapia                    | 2017 |
| 11 | NMR analysis and crystal structure of hydroxyclerodanes from Mexican <i>Salvia</i> species  | ALFREDO ROBERTO ORTEGA HERNANDEZ NAYTZE DALIA ORTIZ PASTRANA RUBEN ALFREDO TOSCANO et al. | JOURNAL OF MOLECULAR STRUCTURE | 2017 |
| 12 | Relative Stereochemistry and Absolute Configuration of Farinosin, a Eudesmanolide From <i>Encelia farinosa</i>  | ALFREDO ROBERTO ORTEGA HERNANDEZ MARIANO SANCHEZ CASTELLANOS LEOVIGILDO QUIJANO et al.    | Chirality                      | 2016 |
| 13 | Phytotoxicity evaluation of sesquiterpene lactones and diterpenes from species of the <i>Decachaeta</i> , <i>Salvia</i> and <i>Podachaenium</i> genera                          | ALFREDO ROBERTO ORTEGA HERNANDEZ Rial, Carlos Varela, Rosa M. et al.                      | PHYTOCHEMISTRY LETTERS         | 2016 |
| 14 | Structural elucidation and evaluation of multidrug-resistance modulatory capability of amarissinins A-C, diterpenes derived from <i>Salvia amarissima</i>                       | MABEL CLARA FRAGOSO SERRANO NAYTZE DALIA ORTIZ PASTRANA RUBEN ALFREDO TOSCANO et al.      | Fitoterapia                    | 2016 |
| 15 | Teotihuacanin, a Diterpene with an Unusual Spiro-10/6 System from <i>Salvia amarissima</i> with Potent Modulatory Activity of Multidrug Resistance in Cancer Cells              | Elihu Bautista MABEL CLARA FRAGOSO SERRANO RUBEN ALFREDO TOSCANO et al.                   | ORGANIC LETTERS                | 2015 |



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|    |  |   |  |      |
|----|--|---|--|------|
| 16 | Antiamoebic and anti-giardial activity of clerodane diterpenes from Mexican <i>Salvia</i> species used for the treatment of diarrhea                                     | Elihu Bautista ALFREDO ROBERTO ORTEGA HERNANDEZ Calzada, Fernando et al.                      | PHYTOTHERAPY RESEARCH                    | 2015 |
| 17 | Structure elucidation of a new isoflavone by exclusive use of 1H NMR measurements  | ALFREDO ROBERTO ORTEGA HERNANDEZ RUBEN ALFREDO TOSCANO HernandezBarragan, Angelina et al.     | MAGNETIC RESONANCE IN CHEMISTRY          | 2015 |
| 18 | 5,10- seco - Neo -clerodanes and neo -clerodanes from <i>salvia microphylla</i>  | Elihu Bautista RUBEN ALFREDO TOSCANO ALFREDO ROBERTO ORTEGA HERNANDEZ                         | JOURNAL OF NATURAL PRODUCTS              | 2014 |
| 19 | Antiprotozoal activity of 8-acyl and 8-alkyl incomptine A analogs  | Elihu Bautista Fabiola A. Lopez Huerta ALFREDO ROBERTO ORTEGA HERNANDEZ et al.                | BIOORGANIC & MEDICINAL CHEMISTRY LETTERS | 2014 |
| 20 | Microphyllandiolidide, a new diterpene with an unprecedented skeleton from <i>salvia microphylla</i>   | Elihu Bautista RUBEN ALFREDO TOSCANO ALFREDO ROBERTO ORTEGA HERNANDEZ                         | ORGANIC LETTERS                          | 2013 |
| 21 | Hydroxyclerodanes from <i>salvia shannoni</i>  | Elihu Bautista RUBEN ALFREDO TOSCANO HECTOR EDUARDO DIAZ TORRES et al.                        | JOURNAL OF NATURAL PRODUCTS              | 2013 |
| 22 | Effect of the sesquiterpene lactone incomptine A in the energy metabolism of <i>Entamoeba histolytica</i>  | GUILLERMO MENDOZA HERNANDEZ ALFREDO ROBERTO ORTEGA HERNANDEZ Velazquez-Dominguez, Jose et al. | EXPERIMENTAL PARASITOLOGY                | 2013 |
| 23 | Microwave-assisted C-3 selective oxidative radical alkylation of flavones  | Marco V. Mijangos LUIS DEMETRIO MIRANDA GUTIERREZ Paulette Vincent Ruz et al.                 | ORGANIC & BIOMOLECULAR CHEMISTRY         | 2012 |
| 24 | neo-Clerodane Diterpenes from <i>Salvia herbacea</i>   | Elihu Bautista EMMA MALDONADO JIMENEZ ALFREDO ROBERTO ORTEGA HERNANDEZ                        | JOURNAL OF NATURAL PRODUCTS              | 2012 |
| 25 | Incomptines C and D, Two Heliangolides from <i>Decachaeta incompta</i> and Their Antiprotozoal Activity  | Elihu Bautista ALFREDO ROBERTO ORTEGA HERNANDEZ Calzada, Fernando et al.                      | PLANTA MEDICA                            | 2012 |
| 26 | Evaluation of the Antiprotozoal Activity of Neo-clerodane Type Diterpenes from <i>Salvia polystachya</i> against <i>Entamoeba histolytica</i> and <i>Giardia lamblia</i> | Elihu Bautista EMMA MALDONADO JIMENEZ ALFREDO ROBERTO ORTEGA HERNANDEZ et al.                 | PHYTOTHERAPY RESEARCH                    | 2010 |
| 27 | Microwave-assisted gold(I) catalyzed pyran ring opening in brevifloralactone: synthesis of the hawtriwaic acid core  | LUIS DEMETRIO MIRANDA GUTIERREZ Joaquin Gonzalez Marrero Elihu Bautista et al.                | TETRAHEDRON LETTERS                      | 2009 |



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|----|--|--|--|------|
| 28 | COUMARINS AND FLAVONES FROM CASIMIROA PRINGLEI   | EMMA MALDONADO JIMENEZ Imelda Marquez FERNANDO CHIANG CABRERA et al.                       | Heterocycles   | 2008 |
| 29 | Observation of indirect parallel pumping of magneto-elastic modes in layered YIG/GGG structures                    | CESAR LEONARDO ORDOÑEZ ROMERO OLEG KOLOKOLTSEV NASER QURESHI et al.                        | SOLID STATE COMMUNICATIONS   | 2007 |
| 30 | Conformational study of galphimines A and B  | JOSE MANUEL FRANCISCO LARA OCHOA ALFREDO ROBERTO ORTEGA HERNANDEZ Guillén-Torres A. et al. | SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY | 2005 |
| 31 | Calcium (hydrogen-l-malate) hexahydrate on Echeveria gibbiflora leaves and its effect on sperm cells               | ALFREDO ROBERTO ORTEGA HERNANDEZ Reyes R. Sánchez-Vázquez M.L. et al.                      | ARCHIVES OF ANDROLOGY  | 2005 |
| 32 | Large volume fiber and cable results for low slope NZDF for 40 Gbit/s  | ALFREDO ROBERTO ORTEGA HERNANDEZ Geisler T. Lumholt O. et al.                              | Optics InfoBase Conference Papers                                  | 2005 |
| 33 | Male contraception, IV: Hypotonic-like effect from Echeveria gibbiflora on human sperm                             | HORACIO MERCHAN LARIOS ALFREDO ROBERTO ORTEGA HERNANDEZ Reyes R. et al.                    | ARCHIVES OF ANDROLOGY  | 2002 |
| 34 | Fast optical thresholding with an array of optical thyristor differential pairs                                    | ALFREDO ROBERTO ORTEGA HERNANDEZ Buczynski R. Szoplik T. et al.                            | J OPT A-PURE APPL OP   | 1999 |
| 35 | Effects of a purified fraction from Echeveria gibbiflora aqueous crude extract on guinea-pig spermatozoa           | ALFREDO ROBERTO ORTEGA HERNANDEZ HORACIO MERCHAN LARIOS Delgado N.M. et al.                | PHYTOTHERAPY RESEARCH  | 1999 |
| 36 | Photodegradation of Luminescence in SiO <sub>2</sub> : Rh B Gels Exposed to YAG : Nd Laser Pulses                  | ALFREDO ROBERTO ORTEGA HERNANDEZ Garcia M. J. Ramirez J. E. et al.                         | JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY                          | 1999 |
| 37 | Acyclic diterpenes from Perymenium hintonii  | EMMA MALDONADO JIMENEZ JOSE LUIS VILLASEÑOR RIOS ALFREDO ROBERTO ORTEGA HERNANDEZ et al.   | Phytochemistry   | 1998 |
| 38 | <sup>1</sup> H and <sup>13</sup> C NMR of synthetic allenic derivatives from eudesmanolides and pseudoguayanolides | ALFREDO ROBERTO ORTEGA HERNANDEZ Diaz E. Guerrero C. et al.                                | NATURAL PRODUCT LETTERS  | 1998 |
| 39 | Labdane diterpenes from Brickellia kellermanii   | ALFREDO ROBERTO ORTEGA HERNANDEZ RUBEN LUIS GAVIÑO RAMIREZ EMMA MALDONADO JIMENEZ et al.   | Phytochemistry   | 1997 |



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|    |  |   |   |      |
|----|--|---|---|------|
| 40 | Erratum: (Planta Medica 60 (1994), 263)  | ALFREDO ROBERTO ORTEGA<br>HERNANDEZ RUBEN LUIS GAVIÑO<br>RAMIREZ Perez A.L. et al.                        | PLANTA MEDICA   | 1996 |
| 41 | Effect of four natural products on two cell lines in tissue culture                                | ALFREDO ROBERTO ORTEGA<br>HERNANDEZ Tellez J. Calzada L. et al.   | Archives Of Std/hiv Research                                      | 1996 |
| 42 | Cytotoxicity of elemanolides from Zinnia flavicoma   | ALFREDO ROBERTO ORTEGA<br>HERNANDEZ EMMA MALDONADO<br>JIMENEZ Tellez J.M. et al.                          | Advances In Contraceptive Delivery Systems                        | 1995 |
| 43 | Temperature distribution in a uniform medium heated by linear absorption of a Gaussian light beam  | ALFREDO ROBERTO ORTEGA<br>HERNANDEZ Loza P. Kouznetsov D.   | APPLIED OPTICS  | 1994 |
| 44 | Structural elucidation of infuscatin, a diterpenoid from Salvia infuscata                          | ALFREDO ROBERTO ORTEGA<br>HERNANDEZ EMMA MALDONADO<br>JIMENEZ HECTOR EDUARDO DIAZ TORRES et al.           | PHYTOCHEMICAL ANALYSIS  | 1994 |
| 45 | Abietane and neo-clerodane diterpenoids from Salvia lavanduloides                                  | EMMA MALDONADO JIMENEZ<br>ALFREDO ROBERTO ORTEGA<br>HERNANDEZ de los Angeles Flores Ma. et al.            | Phytochemistry  | 1994 |
| 46 | Sedative effect of galphimine B, a nor-seco triterpenoid from Galphimia glauca                     | ALFREDO ROBERTO ORTEGA<br>HERNANDEZ Tortoriello J.  | PLANTA MEDICA   | 1993 |
| 47 | Structure of galphimine B  | ALFREDO ROBERTO ORTEGA<br>HERNANDEZ EMMA MALDONADO<br>JIMENEZ RUBEN LUIS GAVIÑO<br>RAMIREZ et al.         | ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS | 1993 |
| 48 | Crystal and molecular structure of gochnatolide, a sesquiterpene lactone                           | RUBEN ALFREDO TOSCANO EMMA MALDONADO JIMENEZ ALFREDO ROBERTO ORTEGA HERNANDEZ                             | Journal Of Crystallographic And Spectroscopic Research            | 1992 |
| 49 | Effects of protein deprivation on pyramidal cells of the visual cortex in rats of three age groups | SOFIA YOLANDA DIAZ MIRANDA LEON<br>FEDERICO CINTRA MC GLONE<br>ALFREDO ROBERTO ORTEGA<br>HERNANDEZ et al. | JOURNAL OF COMPARATIVE NEUROLOGY                                  | 1990 |





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|    |  |  |   |      |
|----|--|--|---|------|
| 50 | A one step transformation of 4 $\alpha$ , 5 $\beta$ -epoxygermacranolide into pseudoguaianolide                          | ALFREDO ROBERTO ORTEGA<br>HERNANDEZ EMMA MALDONADO<br>JIMENEZ  | Heterocycles                                | 1989 |
| 51 | STRUCTURE OF A PENTACYCLIC TRITERPENYL ANGELATE FROM LOESELIA-MEXICANA - H-1 2D-NMR DATA AND STEREOCHEMISTRY             | MANUEL JIMENEZ ESTRADA ALFREDO ROBERTO ORTEGA HERNANDEZ<br>HECTOR EDUARDO DIAZ TORRES et al.               | CANADIAN JOURNAL OF CHEMISTRY               | 1989 |
| 52 | Geochemical evidence of a thermal component in the groundwater of the San Juan Londo Valley, Baja California Sur, Mexico | ROSA MARIA PROL LEDESMA ALFREDO ROBERTO ORTEGA HERNANDEZ   | Transactions - Geothermal Resources Council | 1988 |
| 53 | Anatomical study of the wulst in the parakeet ( <i>Aratinga canalicularis</i> ).   | SOFIA YOLANDA DIAZ MIRANDA LEON<br>FEDERICO CINTRA MC GLONE<br>ALFREDO ROBERTO ORTEGA HERNANDEZ et al.     | Boletín De Estudios Médicos Y Biológicos    | 1988 |
| 54 | Two caleines from <i>Calea zacatechichi</i>  | BALDOMERO ESQUIVEL RODRIGUEZ<br>ALFREDO ROBERTO ORTEGA HERNANDEZ MARIANO MARTINEZ VAZQUEZ                  | Phytochemistry                              | 1987 |
| 55 | Diterpenes from <i>Salvia breviflora</i>   | GABRIEL EDUARDO CUEVAS<br>GONZALEZ BRAVO MARIA OFELIA COLLERA Y ZUÑIGA RICARDO JORGE CARDENAS PEREZ et al. | Phytochemistry                              | 1987 |
| 56 | Constituents of <i>Helenium scorzoneraefolium</i>  | EMMA MALDONADO JIMENEZ<br>ALFREDO ROBERTO ORTEGA HERNANDEZ Flores A.M.                                     | JOURNAL OF NATURAL PRODUCTS                 | 1986 |
| 57 | Pseudoguaianolides from <i>Parthenium fruticosum</i>   | ALFREDO ROBERTO ORTEGA HERNANDEZ EMMA MALDONADO JIMENEZ  | Phytochemistry                              | 1986 |
| 58 | Perydiscolic acid, a germacranolide from <i>Perymenium</i> species   | EMMA MALDONADO JIMENEZ<br>ALFREDO ROBERTO ORTEGA HERNANDEZ Mayorga L.                                      | Phytochemistry                              | 1986 |
| 59 | Stereochemistry of the photoinduced addition of nucleophiles to the enone of decompostin                                 | BALDOMERO ESQUIVEL RODRIGUEZ<br>ALFREDO ROBERTO ORTEGA HERNANDEZ RICARDO JORGE CARDENAS PEREZ et al.       | JOURNAL OF ORGANIC CHEMISTRY                | 1985 |
| 60 | Elemanolides from <i>zinnia flavicomae</i>   | ALFREDO ROBERTO ORTEGA HERNANDEZ EMMA MALDONADO JIMENEZ  | Phytochemistry                              | 1985 |
| 61 | Guaianolides from <i>Gochnatia smithii</i>   | ALFREDO ROBERTO ORTEGA HERNANDEZ EMMA MALDONADO JIMENEZ  | Phytochemistry                              | 1984 |



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|    |  |   |                                    |      |
|----|--|---|------------------------------------|------|
| 62 | Diterpenoids from <i>Viguiera insignis</i>                                     | EDUARDO GUILLERMO DELGADO<br>LAMAS ALFREDO ROBERTO ORTEGA<br>HERNANDEZ RICARDO JORGE<br>CARDENAS PEREZ et al.     | Phytochemistry                     | 1983 |
| 63 | A diterpenic acid from <i>Stevia lucida</i>                                    | MANUEL DE JESUS SALMON SALAZAR<br>ALFREDO ROBERTO ORTEGA<br>HERNANDEZ GUSTAVO ALBERTO<br>GARCIA DE LA MORA et al. | Phytochemistry                     | 1983 |
| 64 | Eudesmane triols from <i>Verbesina virgata</i>                                 | ALFREDO ROBERTO ORTEGA<br>HERNANDEZ MARIANO MARTINEZ<br>VAZQUEZ de Vívar A.R. et al.                              | Phytochemistry                     | 1983 |
| 65 | Sphaerocephalin, a germacranolide isolated from <i>Viguiera sphaerocephala</i> | ALFREDO ROBERTO ORTEGA<br>HERNANDEZ ROBERTO ERNESTO<br>LOPEZ MARTINEZ HECTOR EDUARDO<br>DIAZ TORRES et al.        | Phytochemistry                     | 1980 |
| 66 | Christinine, a new epoxyguaianolide from <i>Stevia serrata</i> Cav.            | MANUEL DE JESUS SALMON SALAZAR<br>ALFREDO ROBERTO ORTEGA<br>HERNANDEZ Díaz E.                                     | JOURNAL OF<br>ORGANIC<br>CHEMISTRY | 1973 |





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**ALFREDO ROBERTO ORTEGA HERNANDEZ**

**LIBROS Y CAPITULOS CON ISBN**

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

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## **PARTICIPACIÓN EN PROYECTOS**

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

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**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

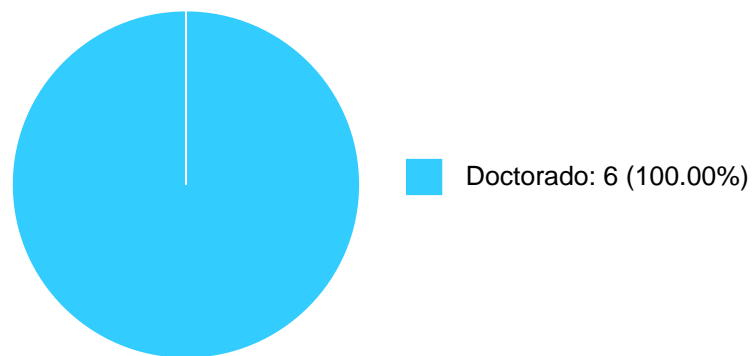
| # | Nivel titulación      | Asignatura  | Entidad   | Alumnos | Semestre |
|---|-----------------------|---|---|---------|----------|
| 1 | Curso de Bachillerato | Topicos modernos sobre la Química de los Productos Naturales  | Dirección General Escuela Nacional Preparatoria | 0       |          |
| 2 | Curso de Bachillerato | Tópicos modernos sobre la Química de los productos naturales. | Dirección General Escuela Nacional Preparatoria | 0       |          |



**ALFREDO ROBERTO ORTEGA HERNANDEZ**

## TUTORIAS EN POSGRADO

### Histórico de tutorías en posgrado



| # | Entidad             | Nivel     | Plan de estudios               | Año  | Semestre |
|---|---------------------|-----------|--------------------------------|------|----------|
| 1 | Facultad de Química | Doctorado | Doctorado en Ciencias Químicas | 2012 | 2012-2   |
| 2 | Facultad de Química | Doctorado | Doctorado en Ciencias Químicas | 2011 | 2011-2   |
| 3 | Facultad de Química | Doctorado | Doctorado en Ciencias Químicas | 2011 | 2012-1   |
| 4 | Facultad de Química | Doctorado | Doctorado en Ciencias Químicas | 2010 | 2010-2   |
| 5 | Facultad de Química | Doctorado | Doctorado en Ciencias Químicas | 2010 | 2011-1   |
| 6 | Facultad de Química | Doctorado | Doctorado en Ciencias Químicas | 2009 | 2010-1   |



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**PATENTES**

| # | Título  | Inventores  | Sección                                      | Año  |
|---|---|---|--|------|
| 1 | DITERPENOS DE SALVIA AMARISSIMA Y SU USO COMO MODULADORES DE LA MULTIRESISTENCIA A FÁRMACOS EN TUMORES. | MABEL CLARA FRAGOSO SERRANO, RUBEN ALFREDO TOSCANO, ALFREDO ROBERTO ORTEGA HERNANDEZ, | CHEMISTRY;<br>METALLURGYHUMAN<br>NECESSITIES | 2020 |





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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 |