ISABEL MARIA LOPEZ LARA

Datos Generales

Nombre: ISABEL MARIA LOPEZ LARA

Máximo nivel de estudios: DOCTORADO

Antigüedad académica en la UNAM: 25 años

Nombramientos

Vigente: INVESTIGADOR TITULAR B TC Definitivo
Centro de Ciencias Genómicas
Desde 01-01-2008 (fecha inicial de registros en el SIIA)

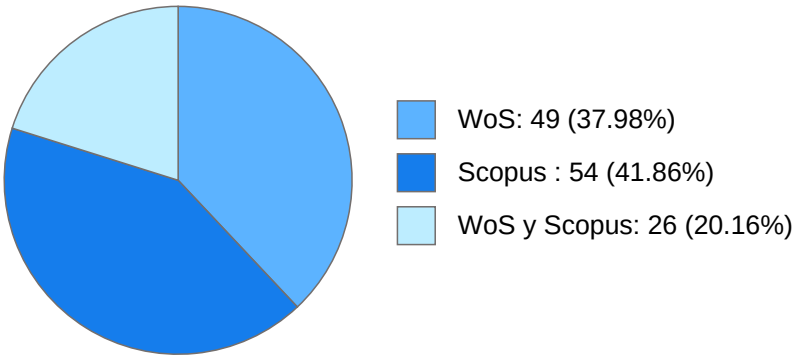
Estímulos, programas, premios y reconocimientos

SNI II 2012 - VIGENTE
SNI I 2009 - 2011
SNI II 2008
PRIDE C - 2024

ISABEL MARIA LOPEZ LARA

DOCUMENTOS EN REVISTAS

Histórico de Documentos



#	Título	Autores	Revista	Año
1	Phosphatidylcholine-deficient suppressor mutant of Sinorhizobium meliloti, altered in fatty acid synthesis, partially recovers nodulation ability in symbiosis with alfalfa (Medicago sativa)	LUIS CARDENAS TORRES LOURDES MARTINEZ AGUILAR LUIS FERNANDO LOZANO AGUIRRE BELTRAN et al.	PLANT JOURNAL	2024
2	Genes required for phosphosphingolipid formation in Caulobacter crescentus contribute to bacterial virulence	SEBASTIAN POGGIO GHILARDUCCI AURORA VENTURA OSORIO FRANCO LOURDES MARTINEZ AGUILAR et al.	PLOS PATHOGENS	2024
3	Membrane lipid composition defines membrane protein spectrum	ISABEL MARIA LOPEZ LARA OTTO GEIGER	TRENDS IN MICROBIOLOGY	2023
4	Editorial: In celebration of women in science: Lipids, membranes, and membranous organelles	ISABEL MARIA LOPEZ LARA Govorunova E.G.	Frontiers In Molecular Biosciences	2023
5	Women representation in soil science: gender indicators in the University Program of Interdisciplinary Soil Studies	ANA MARIA LIZETH CABALLERO GARCIA ISABEL MARIA LOPEZ LARA MARIO ANTONIO GUEVARA SANTAMARIA et al.	Frontiers In Soil Science	2023
6	Specialized acyl carrier protein used by serine palmitoyltransferase to synthesize sphingolipids in Rhodobacteria	SEBASTIAN POGGIO GHILARDUCCI SERGIO MANUEL ENCARNACION GUEVARA ISABEL MARIA LOPEZ LARA et al.	FRONTIERS IN MICROBIOLOGY	2022

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7	Five structural genes required for ceramide synthesis in Caulobacter and for bacterial survival	SEBASTIAN POGGIO GHILARDUCCI LOURDES MARTINEZ AGUILAR ISABEL MARIA LOPEZ LARA et al.	ENVIRONMENTAL MICROBIOLOGY	2021
8	Rhizobial Volatiles: Potential New Players in the Complex Interkingdom Signaling With Legumes	ISABEL MARIA LOPEZ LARA OTTO GEIGER Maria J. Soto et al.	Frontiers in Plant Science	2021
9	ExoS/ChvI Two-Component Signal-Transduction System Activated in the Absence of Bacterial Phosphatidylcholine	OTTO GEIGER CHRISTIAN SOHLENKAMP LOURDES MARTINEZ AGUILAR et al.	Frontiers in Plant Science	2021
10	Role of sinorhizobium meliloti and escherichia coli long-chain ACYL-CoA synthetase FadD in long-term survival	GEOVANNY RIVERA HERNANDEZ OTTO GEIGER ISABEL MARIA LOPEZ LARA et al.	Microorganisms	2020
11	Paraburkholderia lycopersici sp. nov., a nitrogen-fixing species isolated from rhizoplane of Lycopersicon esculentum Mill. var. Saladette in Mexico	LOURDES MARTINEZ AGUILAR ISABEL MARIA LOPEZ LARA Tapia-García E.Y. et al.	SYSTEMATIC AND APPLIED MICROBIOLOGY	2020
12	Expression, purification, and characterization of a metagenomic thioesterase from activated sludge involved in the degradation of acylCoA-derivatives	JORGE LUIS FOLCH MALLOL ISABEL MARIA LOPEZ LARA Zárate A. et al.	PROTEIN EXPRESSION AND PURIFICATION	2019
13	2-Tridecanone impacts surface-associated bacterial behaviours and hinders plant?bacteria interactions	ISABEL MARIA LOPEZ LARA OTTO GEIGER Nogales J. et al.	ENVIRONMENTAL MICROBIOLOGY	2018
14	1,2-Diacylglycerol choline phosphotransferase catalyzes the final step in the unique Treponema denticola phosphatidylcholine biosynthesis pathway	SANTIAGO CASTILLO RAMIREZ ISABEL MARIA LOPEZ LARA OTTO GEIGER et al.	MOLECULAR MICROBIOLOGY	2017
15	Bacterial lipid diversity	ISABEL MARIA LOPEZ LARA OTTO GEIGER	BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR AND CELL BIOLOGY OF LIPIDS	2017
16	Defining substrate specificities for lipase and phospholipase candidates	LOURDES MARTINEZ AGUILAR ISABEL MARIA LOPEZ LARA OTTO GEIGER et al.	JOVE-JOURNAL OF VISUALIZED EXPERIMENTS	2016
17	OlsG (Sinac_1600) Is an Ornithine Lipid N-Methyltransferase from the Planctomycete Singulisphaera acidiphila	WENDY ITZEL ESCOBEDO HINOJOSA Mario SandovalCalderon ISABEL MARIA LOPEZ LARA et al.	JOURNAL OF BIOLOGICAL CHEMISTRY	2015

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18	Fatty acid-releasing activities in Sinorhizobium meliloti include unusual diacylglycerol lipase	Diana X. SahoneroCanavesi CHRISTIAN SOHLENKAMP Mario SandovalCalderon et al.	ENVIRONMENTAL MICROBIOLOGY	2015
19	Phosphatidylcholine biosynthesis and function in bacteria	OTTO GEIGER ISABEL MARIA LOPEZ LARA CHRISTIAN SOHLENKAMP	BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR AND CELL BIOLOGY OF LIPIDS	2013
20	Cupriavidus alkaliphilus sp. nov., a new species associated with agricultural plants that grow in alkaline soils	PAULINA ESTRADA DE LOS SANTOS LOURDES MARTINEZ AGUILAR ISABEL MARIA LOPEZ LARA et al.	SYSTEMATIC AND APPLIED MICROBIOLOGY	2012
21	Hydroxylated ornithine lipids increase stress tolerance in Rhizobium tropici CIAT899	Miguel A. Vences Guzman Ernesto Ormeno Orrillo Napoleon Gonzalez Silva et al.	MOLECULAR MICROBIOLOGY	2011
22	The Dioxygenase-Encoding olsD Gene from Burkholderia cenocepacia Causes the Hydroxylation of the Amide-Linked Fatty Acyl Moiety of Ornithine-Containing Membrane Lipids	Napoleon Gonzalez Silva ISABEL MARIA LOPEZ LARA Rodrigo Reyes Lamothe et al.	BIOCHEMISTRY	2011
23	FadD Is Required for Utilization of Endogenous Fatty Acids Released from Membrane Lipids	Angel Pech Canul OTTO GEIGER ISABEL MARIA LOPEZ LARA et al.	JOURNAL OF BACTERIOLOGY	2011
24	Sinorhizobium meliloti phospholipase C required for lipid remodeling during phosphorus limitation	Maritza Zavaleta Pastor CHRISTIAN SOHLENKAMP Jun-Lian Gao et al.	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	2010
25	Phosphatidylcholine levels of peanut-nodulating Bradyrhizobium sp SEMIA 6144 affect cell size and motility	Daniela B. Medeot CHRISTIAN SOHLENKAMP OTTO GEIGER et al.	FEMS MICROBIOLOGY LETTERS	2010
26	Amino acid-containing membrane lipids in bacteria	OTTO GEIGER Napoleon Gonzalez Silva ISABEL MARIA LOPEZ LARA et al.	PROGRESS IN LIPID RESEARCH	2010
27	SMc01553 is the sixth acyl carrier protein in Sinorhizobium meliloti 1021	Yadira Davila Martinez Ana Laura Ramos Vega SANDRA CONTRERAS MARTINEZ et al.	MICROBIOLOGY-SGM	2010
28	SMb20651 is another acyl carrier protein from Sinorhizobium meliloti	Ana Laura Ramos Vega Yadira Davila Martinez CHRISTIAN SOHLENKAMP et al.	MICROBIOLOGY-SGM	2009

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29	Transcriptional interference and repression modulate the conjugative ability of the symbiotic plasmid of Rhizobium etli	MIGUEL ANGEL RAMIREZ ROMERO ISABEL MARIA LOPEZ LARA OTTO GEIGER et al.	JOURNAL OF BACTERIOLOGY	2008
30	Modulation of conjugative activity of rhizobial symbiotic plasmids by repression and transcriptional interference	E. Sepulveda MIGUEL ANGEL RAMIREZ ROMERO ISABEL MARIA LOPEZ LARA et al.	FEBS JOURNAL	2008
31	The post-genomic era - What comes next?	ISABEL MARIA LOPEZ LARA CHRISTIAN SOHLENKAMP OTTO GEIGER	Revista Latinoamericana de Microbiologia	2006
32	Phosphorus-free membrane lipids of Sinorhizobium meliloti are not required for the symbiosis with alfalfa but contribute to increased cell yields under phosphorus-limiting conditions of growth	ISABEL MARIA LOPEZ LARA CHRISTIAN SOHLENKAMP OTTO GEIGER et al.	MOLECULAR PLANT-MICROBE INTERACTIONS	2005
33	Identification of a gene required for the formation of lyso-ornithine lipid, an intermediate in the biosynthesis of ornithine-containing lipids	ISABEL MARIA LOPEZ LARA OTTO GEIGER Gao J.-L. et al.	MOLECULAR MICROBIOLOGY	2004
34	Biosynthesis of phosphatidylcholine in bacteria	CHRISTIAN SOHLENKAMP ISABEL MARIA LOPEZ LARA OTTO GEIGER	PROGRESS IN LIPID RESEARCH	2003
35	Membrane lipids in plant-associated bacteria: Their biosyntheses and possible functions	ISABEL MARIA LOPEZ LARA CHRISTIAN SOHLENKAMP OTTO GEIGER	MOLECULAR PLANT-MICROBE INTERACTIONS	2003
36	Pathways for phosphatidylcholine biosynthesis in bacteria	ISABEL MARIA LOPEZ LARA OTTO GEIGER Martínez-Morales F. et al.	MICROBIOLOGY -SGM	2003
37	The role of Nod factor substituents in actin cytoskeleton rearrangements in Phaseolus vulgaris	LUIS CARDENAS TORRES NOREIDE NAVA NUÑEZ ISABEL MARIA LOPEZ LARA et al.	MOLECULAR PLANT-MICROBE INTERACTIONS	2003
38	Rhizobial acyl carrier proteins and their roles in the formation of bacterial cell-surface components that are required for the development of nitrogen-fixing root nodules on legume hosts	OTTO GEIGER ISABEL MARIA LOPEZ LARA	FEMS MICROBIOLOGY LETTERS	2002
39	Identification of a gene required for the biosynthesis of ornithine-derived lipids	ISABEL MARIA LOPEZ LARA OTTO GEIGER Weissenmayer B. et al.	MOLECULAR MICROBIOLOGY	2002

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40	Rhizobial NodL O-acetyl transferase and nodS N-methyl transferase functionally interfere in production of modified nod factors	ISABEL MARIA LOPEZ LARA Kafetzopoulos D. Spaink H.P. et al.	JOURNAL OF BACTERIOLOGY	2001
41	Novel pathway for phosphatidylcholine biosynthesis in bacteria associated with eukaryotes	ISABEL MARIA LOPEZ LARA OTTO GEIGER	JOURNAL OF BIOTECHNOLOGY	2001
42	Erratum: Cloning and characterization of the gene for phosphatidylcholine synthase (Journal of Biological Chemistry (2000) 275: (18919-18925))	CHRISTIAN SOHLENKAMP ISABEL MARIA LOPEZ LARA OTTO GEIGER et al.	JOURNAL OF BIOLOGICAL CHEMISTRY	2000
43	Cloning and characterization of the gene for phosphatidylcholine synthase	CHRISTIAN SOHLENKAMP ISABEL MARIA LOPEZ LARA OTTO GEIGER et al.	JOURNAL OF BIOLOGICAL CHEMISTRY	2000
44	Expression and purification of four different rhizobial acyl carrier proteins	ISABEL MARIA LOPEZ LARA OTTO GEIGER	MICROBIOLOGY-SGM	2000
45	Novel branched nod factor structure results from a-(1?3) fucosyl transferase activity: The major lipo-chitin oligosaccharides from Mesorhizobium loti strain NZP2213 bear an a-(1?3) fucosyl substituent on a nonterminal backbone residue	ISABEL MARIA LOPEZ LARA Olsthoorn M.M.A. Petersen B.O. et al.	BIOCHEMISTRY	1998
46	Bacterial nodulation protein NodZ is a chitin oligosaccharide fucosyltransferase which can also recognize related substrates of animal origin	MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ ISABEL MARIA LOPEZ LARA Wijfjes A.H.M. et al.	PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	1997
47	Characterization of Rhizobium tropici CIAT899 nodulation factors: The role of nodH and nodPQ genes in their sulfation	JORGE LUIS FOLCH MALLOL ISABEL MARIA LOPEZ LARA MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ et al.	MOLECULAR PLANT-MICROBE INTERACTIONS	1996
48	NodZ of Bradyrhizobium extends the nodulation host range of Rhizobium by adding a fucosyl residue to nodulation signals	ISABEL MARIA LOPEZ LARA MA. DEL CARMEN MONSERRAT QUINTO HERNANDEZ Blok-Tip L. et al.	MOLECULAR MICROBIOLOGY	1996

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49	Induction of nodule primordia on Phaseolus and Acacia by lipo-chitin oligosaccharide nodulation signals from broad-host-range Rhizobium strain GRH2	ISABEL MARIA LOPEZ LARA van Der Drift K.M.G.M. van Brussel A.A.N. et al.	PLANT MOLECULAR BIOLOGY	1995
50	Surface polysaccharide mutants of Rhizobium sp. (Acacia) strain GRH2: Major requirement of lipopolysaccharide for successful invasion of Acacia nodules and host range determination	ISABEL MARIA LOPEZ LARA Orgambide O. Dazzo F.B. et al.	MICROBIOLOGY -SGM	1995
51	Structural identification of the iipo-chitin oligosaccharide nodulation signals of Rhizobium loti	ISABEL MARIA LOPEZ LARA van den Berg J.D.J. Thomas-Oates J.E. et al.	MOLECULAR MICROBIOLOGY	1995
52	Identification of a novel Rhizobium meliloti nodulation efficiency nfe gene homolog of Agrobacterium ornithine cyclodeaminase	ISABEL MARIA LOPEZ LARA Soto M.J. Zorzano A. et al.	MOLECULAR PLANT-MICROBE INTERACTIONS	1994
53	Characterization and symbiotic importance of acidic extracellular polysaccharides of Rhizobium sp. strain GRH2 isolated from Acacia nodules	ISABEL MARIA LOPEZ LARA Orgambide G. Dazzo F.B. et al.	JOURNAL OF BACTERIOLOGY	1993
54	Characterization of a Rhizobium meliloti ndvB Mutant and a Symbiotic Revertant that Regains Wild-Type Properties	ISABEL MARIA LOPEZ LARA Soto M.J. Lepek V. et al.	MOLECULAR PLANT-MICROBE INTERACTIONS	1992
55	Induction of inhibitory agent produced by Enterococcus faecalis	ISABEL MARIA LOPEZ LARA Martínez-Bueno M. Gálvez A. et al.	FOLIA MICROBIOLOGICA	1990

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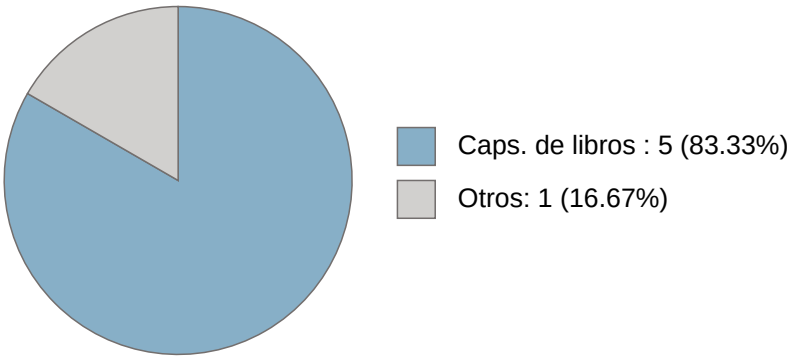
LIBROS Y CAPITULOS CON ISBN

Obras con registro ISBN

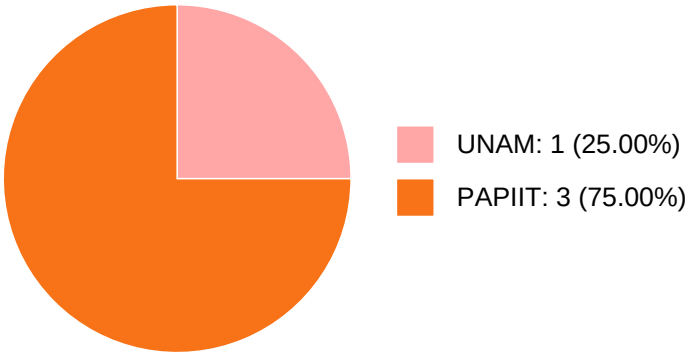


#	Título	Autores	Alcance	Año	ISBN
1	Membrane Lipid Degradation and Lipid Cycles in Microbes	ISABEL MARIA LOPEZ LARA OTTO GEIGER FRANCISCO ROJO CALLEJAS et al.	Article	2019	9783319504186
2	Membrane lipid degradation and lipid cycles in microbes	ISABEL MARIA LOPEZ LARA OTTO GEIGER	Capítulo de un Libro	2017	9783319397825
3	Formation of bacterial glycerol-based membrane lipids: pathways, enzymes, reactions	OTTO GEIGER ISABEL MARIA LOPEZ LARA CHRISTIAN SOHLENKAMP	Capítulo de un Libro	2017	9783319436760
4	Functional roles of non-membrane lipids in bacterial signaling	ISABEL MARIA LOPEZ LARA	Capítulo de un Libro	2017	9783319436760
5	Formation of fatty acids	ISABEL MARIA LOPEZ LARA OTTO GEIGER	Capítulo de un Libro	2010	9783540775874
6	Formation of bacterial membrane lipids: Pathways, enzymes, reactions	OTTO GEIGER CHRISTIAN SOHLENKAMP ISABEL MARIA LOPEZ LARA	Capítulo de un Libro	2010	9783540775843

ISABEL MARIA LOPEZ LARA

PARTICIPACIÓN EN PROYECTOS

Histórico de participación en proyectos



#	Nombre	Participantes	Fuente	Fecha inicio	Fecha fin
1	Biosíntesis y función de los ácidos grasos y sus derivados en bacterias	ISABEL MARIA LOPEZ LARA	Presupuesto de la UNAM asignado a la Dependencia	01-01-2004	31-12-2020
2	Caracterización de la ruta de biosíntesis del sulfolípido sulfoquinovosa diacylglicerol en Sinorhizobium meliloti	ISABEL MARIA LOPEZ LARA	Recursos PAPIIT	01-01-2016	31-12-2018
3	Las metilcetonas como nueva molécula señal en bacterias: estudio de su biosíntesis y sus funciones.	ISABEL MARIA LOPEZ LARA	Recursos PAPIIT	01-01-2019	31-12-2021
4	Nuevos aspectos del metabolismo lipídico de Sinorhizobium meliloti: funciones de tioesterasas y remodelado de membranas	ISABEL MARIA LOPEZ LARA	Recursos PAPIIT	01-01-2022	31-12-2024

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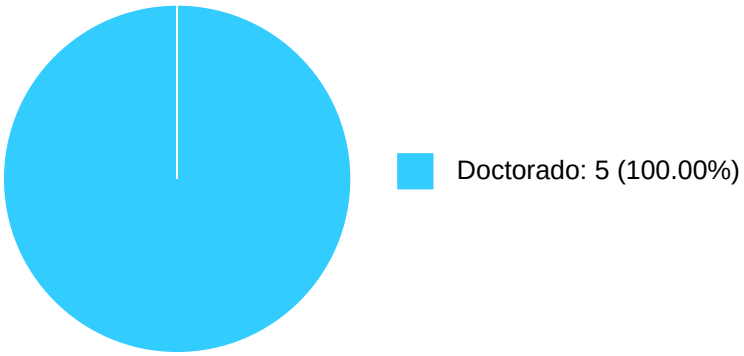
PARTICIPACIÓN EN TESIS

Histórico de Colaboraciones en Tesis

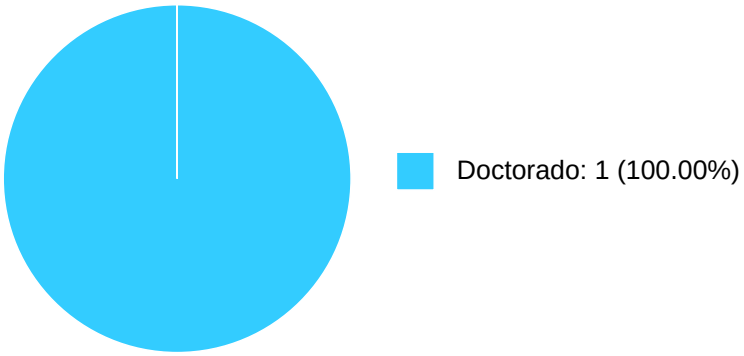


#	Título del documento	Tipo de Tesis	Sinodales	Autores	Entidad	Año
1	"Caracterización de la ruta de biosíntesis del sulfolípido sulfoquinovosa diacilglicerol en Sinorhizobium meliloti"	Tesis de Doctorado	ISABEL MARIA LOPEZ LARA,	Cuevas Rivas, Jessica Yamileth,	Centro de Ciencias Genómicas,	2023
2	Estudios sobre las modificaciones que pueden sufrir los lípidos de ornitina en bacterias de la familia Rhizobiaceae	Tesis de Doctorado	ISABEL MARIA LOPEZ LARA,	JOSE LUIS PUENTE GARCIA, CHRISTIAN SOHLENKAMP , et al.	Centro de Ciencias Genómicas, Instituto de Biotecnología,	2014
3	Funciones de los diferentes homólogos a Acil-Coenzima a sintetasa específica para ácidos grasos de cadena larga (FadD) en Sinorhizobium Meliloti	Tesis de Doctorado	ISABEL MARIA LOPEZ LARA,	Pech Canul, Ángel,	Centro de Ciencias Genómicas,	2012
4	Función de la nueva proteína portadora de grupos acilo SMc01553 en Sinorhizobium meliloti	Tesis de Doctorado	ISABEL MARIA LOPEZ LARA,	Dávila Martínez, Yadira,	Centro de Ciencias Genómicas,	2010
5	SMb20651 es una proteína acarreadora de acilos de Sinorhizobium meliloti	Tesis de Doctorado	ISABEL MARIA LOPEZ LARA,	Ramos Vega, Ana Laura,	Centro de Ciencias Genómicas,	2009

ISABEL MARIA LOPEZ LARA

DOCENCIA IMPARTIDA

Histórico de docencia



#	Nivel titulación	Asignatura	Entidad	Alumnos	Semestre
1	Doctorado	FORMACIÓN, FUNCIÓN Y REMODELACIÓN DE LÍPIDOS DE MEMBRANA EN PROCARIOTAS	Entidad no identificada	6	2017-2

ISABEL MARIA LOPEZ LARA

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